

LAKE ROSALIE CONTROL STRUCTURE

G-103

This structure is a steel sheet pile weir with flashboard control. It is located on the Zipperer Canal at the northern outlet of Lake Rosalie.

PURPOSE

This structure controls, in part, the level of Lake Rosalie. The natural outlet of Lake Rosalie, however, is Rosalie Creek, a meandering stream at the south end of the lake, which discharges into Tiger Lake. Rosalie Creek has a natural sill at elevation 50.0 at Lake Rosalie.

OPERATION

Whenever Lake Rosalie is above schedule, required discharges will be calculated to bring the lake to the regulation schedule within two weeks, by appropriate manipulation of the flashboards and uncontrolled flows in Rosalie Creek.

FLOOD DISCHARGE CHARACTERISTICS

	Design	
Discharge	<u>600*</u> cfs	(estimated 10 year storm)
Headwater Elevation	<u>54.4</u> feet	
Tailwater Elevation	<u>52.2</u> feet	
Type Discharge	<u>submerged</u>	

*Discharge capacity with:

crest elevation 48.0 (all flashboards removed)	- 734 cfs
crest elevation 50.0 (11 timber flashboards removed)	- 450 cfs

DESCRIPTION OF STRUCTURE

Type:	<u>Steel sheet pile weir with timber flashboards</u>
Weir Crest	
Length per bay	<u>5.88</u> feet
Total length	<u>23.52</u> feet
Service Bridge Elevations	<u>58</u> feet
Water level which will by-pass structure	<u>57</u> feet

Flashboards:

Number per bay: 11 timber & 2 steel
 Size: 3" X 6" X 6'-5" - timber
12" high X 6'-5" long - steel

Elevation of overflow weir

Number of Boards in Place	Elevations of Weir (feet)
0	48.0
2 steel	50.0
11 timber & 2 steel	55.5

ACCESS: From a point on SR 60 about 15 miles west of the Kissimmee River Bridge, via 9½ miles on Boy Scout Road to the junction with the road to the Lake Kissimmee State Park, then via about 2 miles on that road.

HYDROLOGIC AND HYDRAULIC MEASUREMENTS

Water Levels: Upstream and downstream (in boat basin) staff gauges

DEWATERING FACILITIES (None)