G-90

This structure is a reinforced concrete, gated spillway with discharge controlled by two stem operated, vertical lift gates, discharging into a reinforced concrete box culvert. Operation of the gates is manually controlled in accordance with the established operational criteria. The structure is located on a channel connected to Lake June-in-Winter; it discharged into Jack Creek.

PURPOSE

This structure is the main outlet from Lake June-in-Winter. It is operated in conjunction with the outlet to Lake Francis (G-91). The latter discharges into Lake Francis, the natural outlet of which is Jack Creek.

OPERATION

Most discharges will be made through the outlet to Lake Francis.

Whenever Lake June is above schedule, required discharges will be calculated to bring the lake to the regulation schedule within two weeks. When the releases through the outlet to Lake Francis will not meet this criterion, releases will be made through the G-90 structure. The maximum gate opening will normally be limited to two gates at 1.0 feet.

Gate opening of 1.5 feet on both gates can be made for periods of eight hours. If larger releases are required to bring Lake June down to schedule, coordination with the Highlands County Engineer and visual surveillance of the outlet channel is required.

FLOOD DISCHARGE CHARACTERISTICS

	*Maximum Allowable	Design
Discharge Rate	375 cfs	760 cfs
		Indeterminate % SPF
Headwater Elevation	74.25 feet	Unknown
Tailwater Elevation	69.74 feet	Unknown
Type Discharge	Controlled, submerged	Unknown

*The values are for non-damaging conditions in the downstream channel, based on measurements taken before stabilization of the downstream stage. The discharge for stabilized conditions would be slightly less

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DESCRIPTION OF STRUCTURE

Type reinforced concrete, gated structure

Weir Crest

Lower Weir

Net Length 14.0 feet

Elevation 65.37 feet

Upper Weir

Net Length 12.0 feet

Elevation 74.0 feet

Service Bridge Elevation 17 feet

Water level which will bypass structure 77.0 feet

Gates

Number 2

Size 8.0 ft. high by 8.0 ft. wide

Type Vertical lift gates

Bottom Elevation of gates, full open: 73.0 feet

Top Elevation of gates, full closed: 74.5 feet

Control: Manual

Lifting mechanism

Normal power source Manual or portable generator

Powered electric motor

Type Hoist: Pedestal mounted crank

ACCESS: West about 3 miles on SR 621 from U.S. 27 and north about 1 1/2 miles via county road on east bank of Jack Creek.

HYDRAULIC & HYDROLOGIC MEASUREMENTS

Water Level On-site headwater and tailwater staff gauges only

Gate Position Recorder None

DEWATERING FACILITIES None