

Fremont Weir Sacramento River, California

Fact Sheet

PROJECT LOCATION

The Fremont Weir is located in Yolo County, CA along the right bank of the Sacramento River between miles 81.7 and 83.4 and upstream from the confluence of the Feather River and the Sacramento River, approximately 15 miles northwest from the city of Sacramento.

Geographic Coordinates: Latitude: 38.7646243 N Longitude: -121.6435719 W

YEAR CONSTRUCTED

In 1917 Congress approved the Sacramento River Flood Control Program and in 1917 the Fremont Weir was built as one of the Sacramento River Flood Control Program projects.

The Weir was constructed by Utah Construction Company, under contract with the Sacramento District Corps of Engineer and was completed on January, 1924

PHYSICAL SETTING

The weir consists of a fixed concrete structure with an earthfill section.

- o The weir's length is approximately 9,120 long
- o The crest of the concrete weir is at approximately Elevation 33.5
- o Design Capacity: 343,000 cubic feet per second

The concrete weir sections have concrete aprons that extend 25 feet downstream from the upstream face of the weir. The apron is paved with one-and two-man stone (Rip-Rap) for another 35 to 55 feet downstream.

WEIR FUNCTION

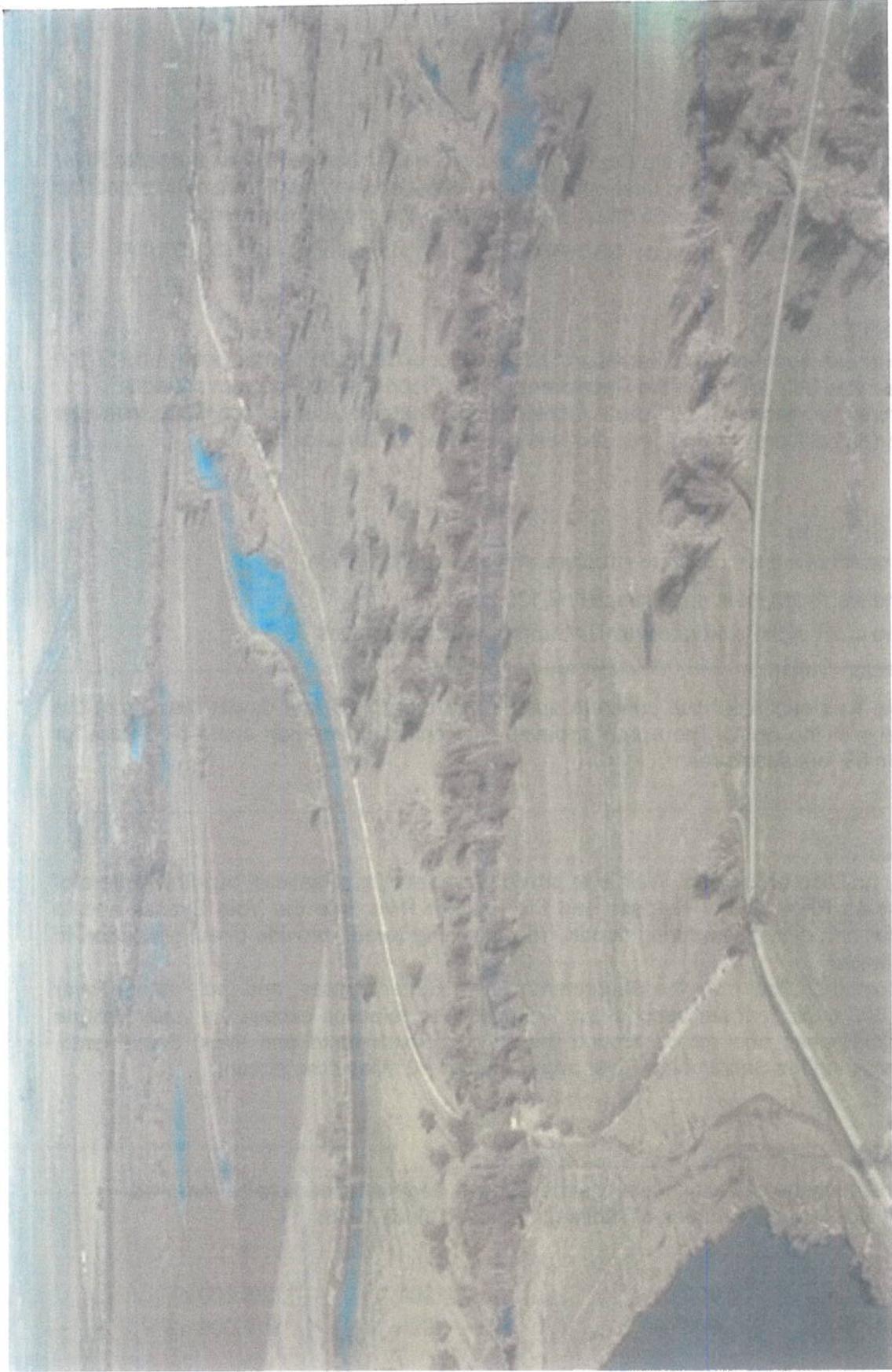
The primary function of Fremont Weir is to provide a means for release of overflow waters of the Sacramento River, Sutter By-pass and the Feather River into the Yolo Bypass and to prevent scour of the by-pass during floods. The adjoining levees provide direct protection to agricultural lands.

When the combined flow from the Sacramento River, Sutter Bypass, and the Feather River reaches 60,000 cubic feet per second, the Fremont Weir releases excess the water volume into the Yolo Bypass and routed around the City of Sacramento and West Sacramento, eventually rejoining the Sacramento River approximately 40 miles downstream.

SIGNIFICANT MAINTENANCE SINCE 1986:

In order to maintain the capacity of the channel bypass, sediment needs to be removed periodically below are the volumes of sediment removed since 1986:

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|--------|------------|--------|--------------|
| o 1986 | 56,000 cy | o 1991 | 1,975,000 cy |
| o 1987 | 931,000 cy | o 2006 | 919,000 cy |



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