

## Project Summary Sheet

Project Name: RD 2107 Flood Protection, Ecosystem Restoration & Ag Preservation Project

Tracking No:4019

Location: San Joaquin River near Paradise Cut in Stockton

County: San Joaquin

Project Sponsor: RD 2107

Point of Contact: Mr. Robert Brown, Trustee

Co-applicant(s): None

Assembly District: 17      Senate District: 5

Project Description: The project includes restoration of approximately 240 acres of land as 10-year floodplain adjacent to the San Joaquin River near the Paradise Cut overflow weir. It also includes preservation of approximately 165 acres of land in current agricultural use and installation of a new setback levee providing improved flood protection to a current estimated resident population of 63 and a transient population of 120, and an approximate one-mile section each of two active railroad alignments and Interstate Highway 5, as well as two sets of 110 KV electrical transmission towers. In addition, eco-restoration components include creation of shaded riverine aquatic habitat along a degraded stretch of the San Joaquin River levee, and improvement of a small lake habitat within the project area.

Agricultural Land Conserved: 165 acres.

Wildlife Habitat Conserved: 3,300 linear feet of SRA restored along the banks of the San Joaquin River and improvement of existing lake habitat.

Total area conserved: acres unknown.

Flood Benefits: Improved flood protection will reduce the risk of flood damage, which, in the 1997 flood event resulted in over \$14 million in damages to home/farm structures (including areas south of Paine Slough – not addressed by this project), \$3 million in crop damage, and another \$3 million in utility, rail line and business damage. The area which would benefit from the project includes: the community of Mossdale, including 21 private residences, 56 commercial structures and one aggregate business operation; an approximate one-mile

section of an active Union Pacific Railroad line and an approximate one and one-quarter mile section of an active Southern Pacific Railroad line; an approximate one-mile section of Interstate Highway 5; various electrical transmission towers; and over 6,000 acres of available agricultural area. The resident population, estimated at 63 and the transient population, estimated at 120, would benefit from this project.

Other Benefits: The project provides for transitory storage of floodwaters. There is no established storage need for the community surrounding the proposed project site. The total estimated amount of storage based on a credible 10-year AEP and conceptual grade and flow-lines is approximately 1,500 acre-feet. Detention time would be dependent on related hydrologic conditions including the flood stage of the San Joaquin River and Paradise Cut channel. The theoretical detention time, assuming an approximate one-week continuous drop in channel stage, would be approximately 22 days. A gravity drainage structure would allow a controlled release of the detained flood-waters during this time period.

Total Cost: \$ 7,000,000

FPCP Cost: \$ 5,000,000

Funding Partners and Share of Cost: \$1,000,000