

- Region 2

Replacing the Glenn-Colusa Screen with a Louver

A new louver fish screen to replace the existing rotary drum screen at the Glenn-Colusa canal would cost several million dollars. The new secondary louver screen at Byron will handle 4,000 cfs and cost \$5,000,000. The cost would be approximately the same for a new louver at the intake from the river or somewhere down the canal. The river intake screen has the advantages of better bypass conditions, lower predation loss in front of the screen, and no loss due to pumping. Ted Vande Sande suggested that a perforated plate screen with wipers would be more effective and not cost any more than a louver. A perforated plate screen would also be more effective on salmon smolts. Louver screens have about a 90% effectiveness (Hallock, 1968 and Mainz, 1978).

The difficulty with an onriver screen is the danger of being destroyed in a flood or left high and dry by a river channel change. A new screen in the canal at its junction with Stoney Creek would allow about six miles of canal to be used as a rearing area for young salmon but would require a canal release or an exchange through ground-water pumping of about 50 cfs down Stoney Creek to be effective.

The high cost of a new screen in any location would make the costs far outweigh the benefits.

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