


-Region 2

Efficiency of the Glenn-Colusa Fish Screen

The only tests of the efficiency of the Glenn-Colusa Fish Screen were made by the Bay/Delta Study in 1974 (Decoto, 1978). Their conclusion was that 18% of the salmon approaching the screen could be recovered in the bypass if that were the only downstream exit. They also found that 34% could be caught if two culverts through the dam on the downstream channel were the only emigration exit. Some salmon particularly recently hatched fish, were going through the screen. They could not account for the 66% of the fish not using the culvert exit but it seems reasonable that predation by other fish took most of them. Losses of 50% to predation were observed in studies at the Hollwood-Cordua Fish Screen (Hall, 1979).

It is possible that some of the salmon smolts are able to move upstream in the diversion channel and regain their Sacramento River emigration pathway. This will be tested. The data on hand suggests that the existing fish screen with an adequate bypass flow will save from 1/3 to 1/2 the salmon smolts entrained in the diverted water.


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