

Four Small Ag Diversions Screened

At a river side reception on Monday September 29, 1997, Family Water Alliance announced the completion of the initial Sacramento River Small Fish Screen Project located at Butte Creek Farms in Colusa County. The morning gathering included representatives from the Natural Resource Conservation Service, Farm Services Agency, California Department of Fish and Game, Congressman Fazio's office, State Senator Maurice Johannessen's office, Ducks Unlimited, Production Credit Association, Jones & Stokes, Sacramento River Preservation Trust, and interested farmers. Those attending were invited to review the project, and see the Butte Creek Farms screen before its scheduled lowering into the river.

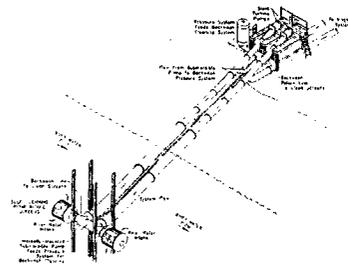
The Butte Creek Farms screen will assist in the restoration of anadromous species on the Sacramento River with special emphasis on Winter-run, and Spring-run Chinook salmon while supporting farm irrigation at the same time. "This restoration is the first in a series of small screen applications on the Sacramento River. It involves voluntary partnerships between agencies, private landowners, and FWA, a grassroots organization," explained Sue Sutton, Project Coordinator, and President of Family Water

Alliance.

The farmers participating are enthusiastic about the project. Ed Hulbert, vice-president of Butte Creek Farms said, "We're progressive. We're farmers. We need to pump water, but we also need to protect the fish." Butte

mitting process. Project Coordinator Sutton said further that, "FWA's support and involvement will help farmers by assisting them in the overall project management, which includes such things as fund raising efforts, and coordinating

BUTTE CREEK FARMS FISH SCREEN PROJECT



- ♦ 2 SLANT PUMPS: 100 HP & 30 HP
- ♦ CFS: 29.9 & 7.9, TOTAL: 37.8
- ♦ SCREEN: YUBA CITY STEEL PRODUCTS, P9000
- ♦ SELF-CLEANING INTAKE SCREEN
- ♦ 5 HP SUBMERSIBLE PUMP FOR CLEANING
- ♦ ESTIMATED COST: \$66,314

THIS PROJECT CONSISTS OF THE INSTALLATION OF TWO SELF-CLEANING FISH SCREEN UNITS ON THE SUCTION INTAKE OF TWO SIDE BY SIDE PUMPS FOR THE PURPOSE OF PROTECTING ANADROMOUS FISH. THE COMBINED PUMPING CAPACITY IS 18,000 GALLONS/MINUTE AND SERVES APPROXIMATELY 2500 ACRES OF IRRIGATED CROPLAND. SCREENING WILL BE TO A DIAMETER OF 5/32 INCHES. VELOCITIES WILL NOT EXCEED 0.333 FEET PER SECOND. SCREENS WILL MEET NMFS AND CALIFORNIA DEPARTMENT OF FISH & GAME CRITERIA.



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ORGANIZATIONS WILLING TO CONTRIBUTE TO THIS PROJECT OR RIVER DIVERTERS WILLING TO PARTICIPATE SHOULD CONTACT FAMILY WATER ALLIANCE

Creek Farms supplies water to 2,500 farmable acres, and 300 acres of duck clubs. Cliff Liddy, a walnut grower who is also installing a fish screen comments, "It's the right thing to do. This will increase my efficiency while at the same time protect fish in the river."

While many large diverters have screened their intakes, small diverters have been hesitant to do so because of limited funds and concern over the per-

logistics such as permits."

This effort is done in cooperation with: Family Water Alliance, family farmers, CA Dept. Of Fish and Game, Colusa County FSA, Colusa County NRCS, US Army Corp of Engineers, CA State FSA and NRCS, National Fish and Wildlife Foundation, National Marine Fisheries Service, US Fish and Wildlife Service, and The Mary A. Crocker Trust.

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SUMMARY OF FISH SCREEN CRITERIA

By U. S. Dept of Agriculture, Natural Resources Conservation Service

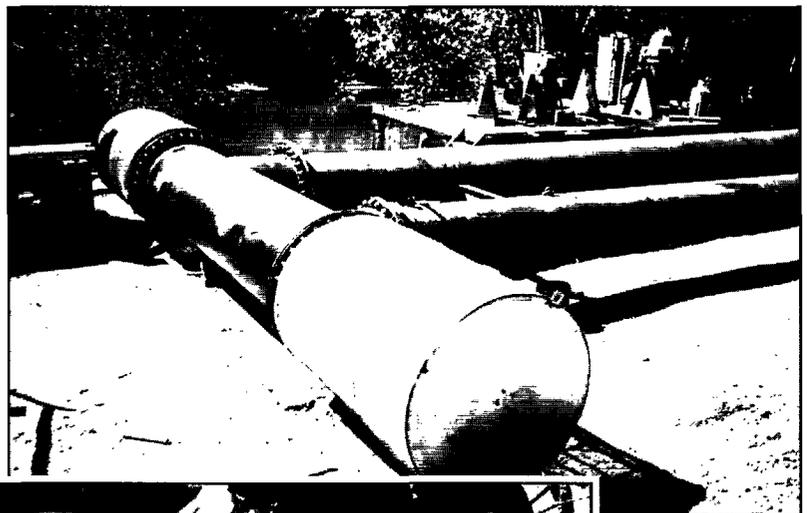
- Screen criteria is based on site and species specific criteria.
- Screens should preferably be located along the lateral bank line where juvenile fish are not drawn into an inlet or bay.
- Screens shall be oriented with the face or axis of the screen parallel to the stream current.
- Approach velocity shall not exceed 0.33 feet per second, where approach velocity is the total submerged screen area (excluding structural components) divided by the maximum diverted flow.
- Sweeping velocity or stream current shall be greater than the approach velocity.
- Screen openings shall not exceed 5/32 inches in diameter or 5/32 inches measured diagonally for woven wire screens. In waters where steelhead trout are present diameter is 3/32 inches. Screen material shall provide a minimum of 27% open area.
- Screen material shall be stainless steel or bronze.
There shall be no projections or sharp edges which could harm fish, or cause the accumulation of trash.
- A continuous operating automatic screen cleaning system shall be provided to prevent the impedance of flow and exceeding the approach velocity criteria. When two screen units are used, a cleaning cycle once every 5 minutes is deemed to meet the above criteria.

Four Small—

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The agricultural diversions involved in the overall project will be located along the Sacramento River and vary in size from 1 cfs to 40 cfs. They will include vertical, slant and submersible pumps. No two pumps or sites are the same, therefore, engineering specifications will change to meet the need of the design criteria. All screens will comply with Department of Fish and Game's "Fish Screen Criteria," and all applicable Fish and Game code sections and regulations. All State and Federal permits will be obtained prior to installation. Any organization, agency, or business wishing to contribute to this project, or river diverter interested in participating should contact Family Water Alliance at 530-438-2026.

37.8 cfs
Butte
Creek
Farms



1 cfs
CNL
Farms