

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND GAME
FIELD CORRESPONDENCE

FROM: R. F. Shine **PLACE** Placerville
TO: J. C. Fraser **DATE** January 15, 1951
SUBJECT: Cost Estimate on Upper Truckee River, (El Dorado County) Improvement

It has been proposed to fence the areas along the river banks approximately 10' back from the banks with a four strand barb wire cattle fence.]

Access ways will be provided for the cattle to cross and to water.

The property owners as outlined on the map were contacted November 22, 1950 by letter to get their reaction on such a program. To date there has been only two replies. The reply of Walter Broder indicated he had no objections to such a program but didn't think we could accomplish much by fencing. The reply of Maebel N. Scott stated it would be a great detriment to her property, but didn't say why.

Without receiving the reaction of the other property owners, I have compiled the following cost estimate of fencing approximately seven miles of the river on both sides, providing cattle crossings, angler crossings and maintenance.

The most suitable fence in this area would be a four strand barb wire cattle fence, with steel and cedar posts with six steel posts to one cedar post, set ten feet apart. Steel posts were selected because less labor would be involved in setting them. Also, where the fence is let down every winter to protect it from snow and ice, it would be more convenient to let down from steel posts. The ratio of one cedar post to six steel posts is for bracing purposes. The fence will follow the contour of the river as much as possible so considerable bracing will be needed on the bends.]

Cattle crossings will be made for each property owner by bulldozing rampways through the banks down and across the river, approximately ten feet wide and averaging fifteen feet long on each bank. The ramp and its banks are then to be riprapped with stone to prevent erosion.

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At suitable locations, angle crossings will be provided. The cost of these will be negligible and were not figured into the cost. They could consist of two cedar posts set 18" apart and installing wood steps vertically up each side of the posts in ladder fashion.

The entire fence should be let down every winter to protect it

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from damage by snow and ice. Some maintenance will be needed each year to keep the fence in good condition.

Allotting cattle crossings in relation to the nature of their holdings:

W. D. Barton	- - - - -	3
G. O. Kyburz	- - - - -	2
Maebel N. Scott	- - - - -	3
Walter Broder	- - - - -	1
Lake Valley Development Co.	- - - - -	2
U. S. Forest Service	- - - - -	<u>1</u>
Total Cattle Crossings	- - - - -	-12

ESTIMATED CONSTRUCTION COSTS

Cost of 1 1/4 miles of fence, seven miles for each bank, including labor and material \$1,600.00 per mile (ESTIMATE) \$22,400.00

Cost of excavation for cattle crossings 30 cubic yards of earth removal and hauling, each crossing \$50.00 (ESTIMATE) 600.00

Cost of loading and hauling stone to each cattle crossing \$72.00 (GUESS) 864.00

Cost of labor for laying stone ripraps 175.00 ea. (GUESS) 2,100.00

ESTIMATED TOTAL CONSTRUCTION COST - - - - - \$ 25,964.00

ESTIMATED COST OF MAINTENANCE PER YEAR

Preparation for winter (letting fence down) 4 man days @ \$12.00 per day (GUESS) \$48.00

Replacement material per year \$25.00 per mi. (ESTIMATE) 350.00

Labor per year for putting up fence and repair (ESTIMATE) 350.00

ESTIMATED TOTAL MAINTENANCE COST PER YEAR - - - - - \$ 748.00

Very truly yours,

R. F. Shine,
Fish Hatchery Man