

APPENDIX C

COST ESTIMATES

Cost estimates for certain recommended stream improvement projects have been prepared by the OFC Engineering Division in Table I. Estimates for ladders, bridges, or other upstream facilities at Willamette Falls are not included.

Estimates for the cost of screening most of the important diversions in the Willamette River system (with the exception of all diversions at Willamette Falls) have been prepared by the OFC Engineering Division in Table II.

LIST OF APPENDIX C TABLES

Table	Page
I. Summary of Cost Estimates for the Improvement of Certain Barriers in the Willamette Drainage (Including Equipment and Contingencies.....	C-2
II. Summary of Cost Estimates for Screening Certain Projects in the Willamette Drainage.....	C-5

Table I. Summary of Cost Estimates for the Improvement  
of Certain Barriers in the Willamette Drainage  
(Including Equipment and Contingencies).

MILTON CREEK		\$ 2,200.
CLACKAMAS SYSTEM		
Currins Creek		
Fish Creek		
Collawash River		
Hot Spring Fork		
Fall Creek		
Squirrel Creek		
	Sub-Total	\$373,846.
TUALATIN SYSTEM		
Oswego Creek		
E.Fork of Dairy Creek		
Plenty Water Creek		
Murtagh Creek		
Gales Creek, Panther Creek, and Unnamed tributary of E.F. Dairy Creek		
	Sub-Total	\$259,047.
MOLALLA SYSTEM		
Canyon Creek		
Pine Creek		
Gawley Creek		
Butte Creek		
N. F. Molalla R. Dead Horse Canyon Creek		
	Sub-Total	\$177,810.

Table I. Summary of Cost Estimates for Certain Barriers (continued).

YAMHILL SYSTEM

North Yamhill River

South Yamhill River

Mill Creek

Coast Creek

Agency Creek

Rowell Creek

Sub-Total \$ 29,582.

LUCKIAMUTE SYSTEM

Luckiamute River

Little Luckiamute River Falls

Sub-Total \$ 126,379.

SANTIAM SYSTEM

Little North Santiam River

Thomas Creek

Neal Creek (Bilyeau)

Crabtree Creek

South Santiam River

Quartsville Creek

Hamilton Creek

Sub-Total \$ 339,185.

Table I. Summary of Cost Estimates for Certain Barriers (continued).

MARYS RIVER

Main Stem

Rock Creek

Sub-Total           \$   53,174.

McKENZIE SYSTEM

Mohawk River

Parsons Creek

Mill Creek

Gate Creek

Blue River

Roaring River (trib. of S.Fork)

Sub-Total           \$   74,052.

WILLAMETTE ABOVE McKENZIE RIVER

Fall Creek

Delp Creek

Little Fall Creek

Sub-Total           \$   82,258.

GRAND TOTAL           \$1,517,553.

Table II. Summary of Cost Estimates for Screening Certain Projects in the Willamette Drainage.

WALTERVILLE

Diversion Canal  
McKenzie River

Install Mechanical Screen

2100 c.f.s. @ \$175.00 per c.f.s. \$367,500.00

LEABURG

Diversion Canal  
McKenzie River

Install Mechanical Screen

2500 c.f.s. @ \$175.00 per c.f.s. \$437,500.00

McKENZIE TROUT HATCHERY

McKenzie River

Two permits have been issued by State Engineer for diversions at same location: 60 c.f.s. to USCE for hatchery purposes; 40 c.f.s. to OGC for rearing purposes. OGC states application has been made to USCE for funds to screen. Are now using close to 100 c.f.s.

Install Mechanical Screen

100 c.f.s. @ \$175.00 per c.f.s. \$ 17,500.00

MILL CREEK (MOHAWK RIVER)

Irrigation Diversion  
0.4 mile above Wendling bridge

Install Mechanical Screen

1.2 c.f.s. @ \$175.00 per c.f.s. \$ 210.00

CASH CREEK (MOHAWK RIVER)

Irrigation Diversion  
0.5 mile above mouth

Install Mechanical Screen

2.12 c.f.s. @ \$175.00 per c.f.s. \$ 371.00

Table II. Cost Estimates for Screening (continued)

McKENZIE RIVER

Irrigation Dist. Canal (Mc-1)  
Sec. 9 - Twp. 17 S - R. 3 W.

Install Mechanical Screen

150 c.f.s. @ \$175.00 per c.f.s. \$ 26,250.00

McKENZIE RIVER

Eugene-Springfield Water Co.  
Irrigation Diversion (Mc-3)  
Sec. 29 - Twp. 17 S - R. 2 W.

Install Mechanical Screen

20 c.f.s. @ \$175.00 per c.f.s. \$ 3,500.00

McKENZIE RIVER

Eugene-Springfield Water Co.  
Irrigation Diversion (Mc-6)  
Sec. 32 - Twp. 17 S - R. 1 W.

Install Mechanical Screen

20 c.f.s. @ \$175.00 per c.f.s. \$ 3,500.00

NORTH SANTIAM RIVER

Stayton Diversion  
1 mile above Stayton  
Multiple use

Install Mechanical Screen

812 c.f.s. @ \$175.00 per c.f.s. \$143,500.00

NORTH SANTIAM RIVER

Salem Ditch Diversion  
Stayton Diversion

Install Mechanical Screen

194 c.f.s. @ \$175.00 per c.f.s. \$ 35,000.00

Table II. Cost Estimates for Screening (continued)

NORTH SANTIAM RIVER		
Farmers Ditch (Santiam Water Control Dist.)		
0.5 mile below Stayton		
Install Mechanical Screen		
20 c.f.s. <sup>1/</sup>	@ \$175.00 per c.f.s.	\$ 3,500.00
NORTH SANTIAM RIVER		
Stout Creek - Irrigation Diversion		
2.5 miles above mouth		
Install Mechanical Screen		
1 c.f.s.	@ \$175.00 per c.f.s.	\$ 175.00
NORTH SANTIAM RIVER		
Rock Creek		
0.5 mile above mouth		
Diversion thru ditch		
Install Mechanical Screen		
4 c.f.s.	@ \$175.00 per c.f.s.	\$ 700.00
SOUTH SANTIAM RIVER		
Diversion for multiple use		
2.5 miles above Lebanon-Scio Bridge		
Install Mechanical Screen		
350 c.f.s.	@ \$175.00 per c.f.s.	\$ 61,250.00
SOUTH SANTIAM RIVER		
Crabtree Creek		
28 miles above mouth & 2.5 miles		
below the South Fork		
Install Mechanical Screen		
40 c.f.s.	@ \$175.00 per c.f.s.	\$ 7,000.00

---

<sup>1/</sup> State Engineer has no record of permit.  
20 c.f.s. is estimated

Table II. Cost Estimates for Screening (continued)

WILLAMETTE ABOVE McKENZIE RIVER

Mosby Creek (Coast Fork)

Irrigation Diversion

3 miles above mouth

Install Mechanical Screen

7 c.f.s. @ \$175.00 per c.f.s.

\$ 1,225.00

WILLAMETTE ABOVE McKENZIE RIVER

Mosby Creek (Coast Fork)

Mill Pond Diversion (Georgia Pacific Co.)

10 miles above mouth

Install Mechanical Screen

3 c.f.s. @ \$175.00 per c.f.s.

\$ 525.00

WILLAMETTE ABOVE McKENZIE RIVER

Hills Creek

Mill Pond Diversion (Hills Creek Lbr. Co.)

2 miles above mouth

Install Mechanical Screen

2 c.f.s. @ \$175.00 per c.f.s.

\$ 350.00

OSWEGO CREEK

Oswego Lake Outlet

Multi-purpose - Hydroelectric  
and recreation

Permit for 58 c.f.s. diverted from  
Tualatin River through Oswego Lake

Maximum c.f.s. at turbines is 91.5 c.f.s.

Install Mechanical Screen

92 c.f.s. @ \$200.00 per c.f.s. <sup>1/</sup>

\$ 18,400.00

---

<sup>1/</sup> This project is estimated at a higher base per c.f.s. because of costlier than usual installation.



Table II. Cost Estimates for Screening (continued)

CALAPOOYA RIVER

West Brush Creek  
Irrigation Diversion  
0.5 mile above mouth

Install Mechanical Screen

2 c.f.s. @ \$175.00 per c.f.s. \$ 350.00

MARYS RIVER

Diversion for industrial use.  
Diversion operating but not being  
used for original purpose  
Owner now - Evans Products Co. or  
City of Corvallis  
Diversion point approx. 2 miles  
above mouth of Marys River

Install Mechanical Screen

Estimated 12 c.f.s. @ \$175.00 per c.f.s. \$ 2,100.00

LUCKIAMUTE RIVER

Maxfield Creek  
Irrigation Diversion  
200 ft. above Hiway bridge  
at Kings Valley

Install Mechanical Screen

1 c.f.s. @ \$175.00 per c.f.s. \$ 175.00

LUCKIAMUTE RIVER

Price Creek  
Irrigation Diversion  
1.5 miles above Hiway bridge  
at Kings Valley

Install Mechanical Screen

2 c.f.s. @ \$175.00 per c.f.s. \$ 350.00

Table II. Cost Estimates for Screening (continued)

MILL CREEK (ENTERS WILLAMETTE RIVER AT SALEM)

Mi-2	City Ice Works at Salem, Oregon		
	Install Mechanical Screens		
	1 c.f.s. By Pumping @ \$175.00 per c.f.s.	\$	175.00
	80 c.f.s. through turbines - Summer Flow		
	160 c.f.s. through turbines - Winter Flow		
	160 c.f.s. @ \$175.00 per c.f.s.	\$	28,000.00
Mi-4	Oregon Pulp & Paper at Salem, Oregon		
	Install Mechanical Screen		
	120 c.f.s. @ \$175.00 per c.f.s.	\$	21,000.00
Mi-6	Shelton Ditch located approx. 1/2 mile above State Penitentiary		
	Install Mechanical Screen		
	2 c.f.s. @ \$175.00 per c.f.s.	\$	350.00
Mi-8	Oregon State Penitentiary at Salem, Oregon		
	Install Mechanical Screen		
	5-10 c.f.s. @ \$175.00 per c.f.s.	\$	1,750.00
Mi-10	Burkland Lbr. Co. 1 Mile east of Battle Creek		
	Install Mechanical Screen		
	2 c.f.s. @ \$175.00 per c.f.s.	\$	350.00
Mi-12	Highburger Mill Diversion Approx. 1 mile upstream from Aumsville, Oregon		
	Install Mechanical Screen		
	135 c.f.s. @ \$175.00 per c.f.s.	\$	23,625.00

Table II. Cost Estimates for Screening (continued)

MILL CREEK (continued)

V. S. Sawyer Diversion  
1 Mile above State Penitentiary Annex

Install Mechanical Screen

15 c.f.s. @ \$175.00 per c.f.s. \$ 2,625.00

Unidentified diversion  
Located below State Penitentiary Annex

Install Mechanical Screen

5 c.f.s. @ \$175.00 \$ 875.00

Mathew Mack Diversion  
Located 2 miles below Stayton

Install Mechanical Screen

3 c.f.s. @ \$175.00 per c.f.s. \$ 525.00

Ernest Dozler Diversion  
Located 2 miles below Stayton

Install Mechanical Screen

1½-2 c.f.s. @ \$175.00 per c.f.s. \$ 350.00

TOTAL \$1,210,556.00