

DEPARTMENT OF FISH, WILDLIFE AND PARKS

HATCHERY COST REPORTS

FOR

FY 1993

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COST SUMMARY OF FISH PRODUCTION

FROM MONTANA'S HATCHERY SYSTEM

Introduction

This is the annual direct cost analysis of fish production for hatchery operations in Montana for FY 1993. It includes direct costs and direct costs plus depreciation for each hatchery. In addition, each hatchery is compared to the statewide average.

Costs of producing fish from the state's hatchery system are being continually examined to assure that sportsman dollars are utilized efficiently and effectively. Hatchery production is one of the few areas of the Department's functions where output can be accurately measured in relation to funds used. It is important to note that the costs reflected in this report include all direct hatchery costs to rear and stock 18 species or strains of fish. Hatchery expenditures to obtain eggs from wild spawning species, as well as broodstock development and maintenance of captive broodstocks, are included.

This report consists of the following data sheets:

- A. Annual hatchery cost reports, by hatchery, and state summary. Because warmwater production costs cannot be compared directly with trout hatcheries, Miles City costs are listed separately.
- B. Graph showing relative costs between hatcheries.
- C. Summary sheet, by hatchery, listing hatchery inventories.
- D. Comparison of total costs of fish produced. This lists the budget expenditures by categories.
- E. Fish food purchased.
- F. Sale of surplus eyed eggs.

Equipment and capital construction is depreciated at 75 percent of the original cost. This assumes 25 percent salvage value is retained at the end of their useful life. Equipment is amortized over five years and capital construction over 25 years. Murray Springs Hatchery is owned by the Corps of Engineers (COE) and operated by FW&P under contract. The value used as depreciation is

the cost of electricity to operate this facility. Electric power is a cost paid directly by COE and is not reflected in the operations budget of Murray Springs Hatchery.

Growth Model

Trout growth in hatcheries was defined by Haskell (1959) as "the growth of trout, under conditions of constant water temperature and adequate food supply, is such that the rate of increase in length is constant, except during time when metabolism is altered by factors such as disease, spawning, etc."

The equation describing fish is given as: $CF = W/L^3$ where W = weight in pounds of an individual fish and L = length in inches. The condition factor relates height and width to length. The condition factor is used directly in calculating weight-length relationships.

Variables

A number of conditions influence cost of fish production. A hatchery whose function is strictly production, i.e., they receive eyed eggs and continue incubation can hatch, rear and stock fish at a much lower cost per pound than a station that has brood or egg collection responsibilities. Brood stations, for instance, have a high cost in brood maintenance and development. Hence the costs to produce fish at these stations are higher when compared to purely production hatcheries. The cost of collecting eggs from wild populations is absorbed in the respective hatchery budget and is charged against fish production.

To more fully account for the growth of fish and develop an economic accounting for egg transfers from brood to production station, the following methods of egg transfer and accounting is being used. A basic assumption is made that fish development begins in the egg at some point where the size and weight is effectively zero (0). When a two-inch fish is planted, it has grown a full two inches, not two inches minus the hatched length of approximately .25". This circumstance would only give credit for 1.75" of growth with no value given to broodstock maintained for the early egg development.

Using the procedures mentioned above, eggs which originate from hatchery-held broodstocks are credited for the first .25" of growth and is for all eggs produced irrespective of their disposition. Eggs taken from wild stock start their life in the hatchery at .20" and transferred to production at .25". This provides some growth credit to the collection stations of .05" of growth, which reflects some of the costs of collecting and processing eggs. Eggs obtained from other states or agencies enter the inventory at .25".

Using the above accounting methods eliminates the need for a monetary accounting of the value of eggs and gives the brood station growth credit instead. Although these accounting procedures reduce the costs to brood stations they still have higher cost per unit of production than does purely production stations.

The size, number and species of fish produced have the greatest influence on final cost figure. Overhead, such as salaries and station maintenance, are reasonably stable. The cost to produce and plant a pound of fish decreases as the size increases. Up to a length of 12", the cost of feed to produce a pound of fish is low and efficient conversions are obtained. Above 12 inches, the cost per pound of fish growth increases. Fish in this category are considered brood in our system and a considerable amount of food is consumed during the annual development of sex products and is not reflected in growth in inches or pounds gained. Also broodstock go through extended periods of erratic feeding behavior. These circumstances increase costs for each growth increment. Some species, such as westslope cutthroat, require more food than other species to produce a pound of fish. Westslope can require more than twice the amount of food to produce a pound of fish than does the Arlee rainbow, for example.

Anaconda, Big Timber and Arlee are all brood stations with elevated expenses dictated by their brood function.

Somers is somewhat unique. Total production is from eggs collected from wild runs or shipped in from other states. Egg collection is absorbed in Somers' budget and is charged against fish production. Fish are normally stocked at a very small size and exhibit a high cost per pound produced because the fish are stocked before significant growth is attained. These circumstances result in an arbitrarily high cost per pound of fish produced.

Miles City Hatchery produces warmwater fish, therefore, the production cost cannot be directly compared to coldwater fish production. Production costs for Miles City are not included in the statewide averages, which is for the eight coldwater hatcheries. For these reasons, Miles City cost figures are presented separately, so they are not influenced by coldwater production.

Ultimately, the standard of fish hatchery operations is gauged by the cost per fish or cost per pound actually stocked. During FY 1993, the Montana hatchery system stocked 41,340,884 fish which weighed 221,142 pounds. The direct costs to stock fish in FY 1993 were \$0.029 per fish and \$5.44 per pound. Direct costs to operate the nine state hatcheries in FY 1992 were \$1,202,272.

Inventory and Cost Calculation

Inventory accounting is developed using the following guide:

+ Ending Inventory
+ Transfers Out
+ Plants
- Beginning Inventory
- Transfers In
= Net Production

Production may be expressed in any quantity, such as pounds or inches. Cost per inch was chosen for this report as the unit for which production costs are calculated. When total production from a unit is computed in inches, all costs with the exception of feed, may be calculated on the cost-per-inch basis. When this is done, the cost of feed for fish produced can then be added to any given size and total cost of that particular size computed.

Overhead (administrative) costs are not included. This is an unalterable cost the State will always have regardless of how or where fish are produced.

Formula for calculating cost is:

Cost (heat, light, labor, etc.) / inches produced = cost per inch
produced. Cost per inch x inches (2,000, if referring to 1,000
fish 2" long) + (weight of 1,000 2" fish) x feed cost per pound
gained = total cost per 1,000 fish 2" long.

Costs in this report are listed per 1,000 fish.

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STATE SUMMARY BY HATCHERY
PRODUCTION FOR JULY 1, 1992 TO JUNE 30, 1993

Hatchery	Beginning Inventory		Transfers In		Transfers Out		Fish Planted		Ending Inventory	
	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds
Anaconda	29,629	13,340	2,138,406	0	1,970,554	4,893	60,050	2,954	104,829	3,131
Arlee	49,941	14,598	4,982,843	31	4,745,390	30	263,913	26,117	23,481	10,608
Big Timber	241,625	2,485	1,783,082	0	1,438,947	2,025	149,118	866	430,642	3,875
Bluewater	392,349	12,692	1,082,744	255	359,040	286	1,073,000	48,561	43,053	5,344
Great Falls	226,709	8,404	1,682,379	2,380	437,186	418	1,111,995	39,355	359,907	11,965
Lewistown	1,013,122	17,701	3,734,841	1,027	1,343,101	10,998	2,534,037	72,805	870,825	16,740
Murray Springs	364,380	3,239	1,173,723	6	589,207	3	668,574	23,758	280,332	3,526
Somers	0	0	2,561,000	575	655,416	69	1,843,597	1,651	6,200	1
Subtotal	2,317,755	72,459	19,139,018	4,274	11,538,841	18,722	7,704,284	216,067	2,119,269	55,190
Miles City	425,655	1,121	53,630,311	3,295	20,009,294	1,231	33,636,600	5,075	410,072	680
TOTAL	2,743,410	73,580	72,769,329	7,569	31,548,135	19,953	41,340,884	221,142	2,529,341	55,870

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1992 TO JUNE 30 1993

Item	Anaconda - WPTH		Arlee - JRHT		Big Timber - YSRTH	
	Previous Year	1993	Previous Year	1993	Previous Year	1993
Salaries and Benefits	\$89,611.90	\$95,896.68	\$89,079.00	\$96,563.00	\$64,435.67	\$68,805.62
Operations and Maintenance minus food costs	43,339.04	49,442.16	39,021.29	25,107.02	24,003.99	\$24,485.74
equipment and other expenses	16,725.61	0.00	5,206.83	9,323.19	1,817.62	\$1,781.62
Subtotal	149,676.55	145,338.84	133,307.12	130,993.21	90,257.28	95,072.98
Feed costs	4,614.15	8,278.00	11,576.68	14,129.88	2,803.02	\$3,496.09
Total Direct Costs	154,290.70	153,616.84	144,883.80	145,123.09	93,060.30	98,569.07
Depreciation of Capital Expend.	10,240.58	11,825.82	9,905.40	9,905.40	16,384.47	\$16,384.47
Grand Total	\$164,531.28	\$165,442.66	\$154,789.20	\$155,028.49	\$109,444.77	\$114,953.54

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1992 TO JUNE 30 1993

Item	Bluewater - BWTH		Great Falls GSTH		Lewistown - BSTH	
	Previous Year	1993	Previous Year	1993	Previous Year	1993
Salaries and Benefits	\$98,148.12	\$102,169.02	\$83,982.67	\$90,894.78	\$157,997.95	\$180,108.62
Operations and Maintenance minus food costs	\$38,784.81	\$38,412.83	44,761.92	34,490.43	76,908.78	75,055.71
equipment and other expenses	\$0.00	\$1,311.95	567.78	1,864.34	425.00	968.00
Subtotal	136,932.93	141,893.80	129,312.37	127,249.55	235,331.73	256,132.33
Feed costs	\$21,035.96	\$17,216.91	17,882.16	14,452.68	35,262.51	33,593.10
Total Direct Costs	157,968.89	159,110.71	147,194.53	141,702.23	270,594.24	289,725.43
Depreciation of Capital Expend.	\$14,694.96	\$15,107.46	71,818.81	75,655.35	26,026.00	24,000.00
Grand Total	\$172,663.85	\$174,218.17	\$219,013.34	\$217,357.58	\$296,620.24	\$313,725.43

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1992 TO JUNE 30 1993

Item	Eurerka - MSTH		Somers - FLSH		Miles City - MCFH	
	Previous Year	1993	Previous Year	1993	Previous Year	1993
Salaries and Benefits	\$96,708.00	\$93,446.00	\$59,129.00	\$61,674.00	\$102,826.88	\$96,758.33
Operations and Maintenance minus food costs	21,820.00	22,071.00	15,447.00	16,028.81	129,769.46	51,425.73
equipment and other expenses	0.00	0.00	0.00	7,051.00	0.00	41,687.00
Subtotal	118,528.00	115,517.00	74,576.00	84,753.81	232,596.34	319,871.06
Feed costs	20,144.00	12,861.00	955.68	1,293.07	5,555.60	7,187.18
Total Direct Costs	138,672.00	128,378.00	75,531.68	86,046.88	238,151.94	327,058.24
Depreciation of Capital Expend.	58,000.00	54,969.00	2,768.00	3,441.00	158,360.85	164,310.30
Grand Total	\$196,672.00	\$183,347.00	\$78,299.68	\$89,487.88	\$396,512.79	\$491,368.54

ANNUAL HATCHERY COST REPORT

Hatchery > Washoe Park Trout Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	29629	13340.0	2.22	0.45023456	10.402	266881
Transfer In	2138406	13.3	160782.41	0.00000621	0.250	534601
Transfer Out	1970554	4893.0	402.73	0.00248305	1.838	506388
Plants	60050	2954.2	20.33	0.04919567	4.973	166190
Ending Inventory	137431	3138.1	43.79	0.02283400	3.850	224425
TOTALS	0	-2368.0				95521

COST ==> 145338.84 <==
 DEPRECIATION ==> 11825.82 <== Cost per inch produced (direct cost)= 1.5215
 Cost per inch produced (direct cost + depreciation)= 1.6453

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.40	\$1,520.14	\$0.00	\$1,643.94	\$0.00
2.00	3.20	3031.89	0.00	3279.50	0.00
3.00	10.80	4526.86	0.00	4898.27	0.00
4.00	25.60	5996.66	0.00	6491.87	0.00
5.00	50.00	7432.90	0.00	8051.92	0.00
6.00	86.40	8827.19	0.00	9570.01	0.00
7.00	137.20	10171.15	0.00	11037.77	0.00
8.00	204.80	11456.37	0.00	12446.80	0.00
9.00	291.60	12674.47	0.00	13788.70	0.00
10.00	400.00	13817.07	0.00	15055.10	0.00
11.00	532.40	14875.77	0.00	16237.60	0.00
12.00	691.20	15842.18	0.00	17327.82	0.00

Based on 15397 Lbs. Food
 Total feed costs ==> 8278 <== Feed cost per lb. gained -3.4958
 Avg. food cost/lb.=> 0.5376 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Jocko River Trout Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00043000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	49941	14597.0	3.42	0.29228489	8.793	289677
Transfer In	4982843	31.0	160736.87	0.00000622	0.244	0
Transfer Out	4745390	30.0	158179.67	0.00000632	0.245	1186348
Plants	263913	26117.0	10.11	0.09896064	6.128	1263837
Ending Inventory	23481	10604.0	2.21	0.45159916	10.165	141784
TOTALS	0	22123.0				2302292

COST ==> 155028.59 <==
 DEPRECIATION ==> 9905.40 <== Cost per inch produced (direct cost)= 0.0673
 Cost per inch produced (direct cost + depreciation)= 0.0716

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.43	\$67.61	\$0.00	\$71.91	\$0.00
2.00	3.44	136.87	0.00	145.48	0.00
3.00	11.61	209.43	0.00	222.33	0.00
4.00	27.52	286.92	0.00	304.13	0.00
5.00	53.75	371.01	0.00	392.53	0.00
6.00	92.88	463.34	0.00	489.16	0.00
7.00	147.49	565.56	0.00	595.68	0.00
8.00	220.16	679.31	0.00	713.73	0.00
9.00	313.47	806.24	0.00	844.96	0.00
10.00	430.00	948.01	0.00	991.03	0.00
11.00	572.33	1106.25	0.00	1153.58	0.00
12.00	743.04	1282.62	0.00	1334.25	0.00

Based on 31908 Lbs. Food
 Total feed costs ==> 14129.98 <== Feed cost per lb. gained 0.6387
 Avg. food cost/lb.==> 0.4428 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Yellowstone River Trout Hatchery

Year > 1993 <==
 Condition Factor ==> 0.00037050 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	241625	2484.5	97.25	0.01028246	3.028	367767
Transfer In	1783082	0.0	0.00	0	0.000	426335
Transfer Out	1438947	2024.6	710.73	0.00140700	1.560	525970
Plants	149118	866.3	172.13	0.00580949	2.503	341689
Ending Inventory	436642	3874.6	112.69	0.00887363	2.883	709705
TOTALS	0	4281.0				783262

COST ==> 98569.07 <==
 DEPRECIATION ==> 16384.47 <== Cost per inch produced (direct cost)= 0.1258
 Cost per inch produced (direct cost + depreciation)= 0.1468

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.37	\$126.15	\$0.00	\$147.07	\$0.00
2.00	2.96	254.11	0.00	295.95	0.00
3.00	10.00	385.70	0.00	448.46	0.00
4.00	23.71	522.74	0.00	606.41	0.00
5.00	46.31	667.04	0.00	771.63	0.00
6.00	80.03	820.42	0.00	945.93	0.00
7.00	127.08	984.69	0.00	1131.12	0.00
8.00	189.70	1161.67	0.00	1329.02	0.00
9.00	270.09	1353.17	0.00	1541.44	0.00
10.00	370.50	1561.01	0.00	1770.20	0.00
11.00	493.14	1787.01	0.00	2017.11	0.00
12.00	640.22	2032.97	0.00	2283.99	0.00

Based on 5223 Lbs. Food
 Total feed costs ==> 3496.09 <== Feed cost per lb. gained 0.8167
 Avg. food cost/lb. => 0.6694 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Bluewater Springs Trout Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	392349	12692.4	30.91	0.03234977	4.325	1504397
Transfer In	1082744	254.8	4249.39	0.00023532	0.838	294534
Transfer Out	359040	286.0	1255.38	0.00079656	1.258	107800
Plants	1073000	48560.8	22.10	0.04525703	4.837	4819681
Ending Inventory	43053	5344.0	8.06	0.12412607	6.770	280015
TOTALS	0	41243.6				3408565

COST ==> 141893.80 <==
 DEPRECIATION ==> 15107.46 <== Cost per inch produced (direct cost)= 0.0416
 Cost per inch produced (direct cost + depreciation)= 0.0461

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.40	\$41.80	\$0.00	\$46.23	\$0.00
2.00	3.20	84.59	0.00	93.46	0.00
3.00	10.80	129.39	0.00	142.69	0.00
4.00	25.60	177.20	0.00	194.93	0.00
5.00	50.00	229.02	0.00	251.18	0.00
6.00	86.40	285.84	0.00	312.43	0.00
7.00	137.20	348.67	0.00	379.70	0.00
8.00	204.80	418.52	0.00	453.98	0.00
9.00	291.60	496.38	0.00	536.27	0.00
10.00	400.00	583.26	0.00	627.59	0.00
11.00	532.40	680.16	0.00	728.92	0.00
12.00	691.20	788.08	0.00	841.27	0.00

Based on 44938 Lbs. Food Feed cost per lb. gained 0.4174
 Total feed costs ==> 17216.91 <== State Average \$0.0000
 Avg. food cost/lb.=> 0.3831 <==

ANNUAL HATCHERY COST REPORT

Hatchery > Giant Springs Trout Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	226709	8404.3	26.98	0.03707087	4.525	901468
Transfer In	1682379	2379.7	706.97	0.00141448	1.524	682041
Transfer Out	437186	417.9	1046.15	0.00095588	1.337	214736
Plants	1111995	39355.4	28.26	0.03539170	4.456	4493514
Ending Inventory	359907	11964.9	30.08	0.03324442	4.364	1448302
TOTALS	0	40954.2				4573043

COST ==> 127249.55 <==
 DEPRECIATION ==> 75655.35 <== Cost per inch produced (direct cost)= 0.0278
 Cost per inch produced (direct cost + depreciation)= 0.0444

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.40	\$27.97	\$0.00	\$44.51	\$0.00
2.00	3.20	56.78	0.00	89.87	0.00
3.00	10.80	87.29	0.00	136.92	0.00
4.00	25.60	120.34	0.00	186.51	0.00
5.00	50.00	156.77	0.00	239.49	0.00
6.00	86.40	197.45	0.00	296.71	0.00
7.00	137.20	243.20	0.00	359.01	0.00
8.00	204.80	294.88	0.00	427.23	0.00
9.00	291.60	353.34	0.00	502.23	0.00
10.00	400.00	419.42	0.00	584.86	0.00
11.00	532.40	493.97	0.00	675.95	0.00
12.00	691.20	577.84	0.00	776.36	0.00

Based on
 Total feed costs ==>
 Avg. food cost/lb.==>

38994 Lbs. Food
 14452.68 <==
 0.3706 <==

Feed cost per lb. gained
 State Average 0.3529
 \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Big Springs Trout Hatchery

Year > 1993 <==
 Condition Factor ==> 0.00039000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	1013122	17701.0	57.24	0.01747173	3.552	2862786
Transfer In	3734841	1027.0	3636.65	0.00027497	0.890	1715209
Transfer Out	1343101	10998.0	122.12	0.00818851	2.759	2222939
Plants	2534037	72805.0	34.81	0.02873083	4.192	9143617
Ending Inventory	870825	16740.0	52.02	0.01922315	3.667	2710000
TOTALS	0	81815.0				9498561

COST ==> 289725.40 <==
 DEPRECIATION ==> 24000.00 <== Cost per inch produced (direct cost)= 0.0305
 Cost per inch produced (direct cost + depreciation)= 0.0330

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.39	\$30.66	\$0.00	\$33.19	\$0.00
2.00	3.12	62.29	0.00	67.34	0.00
3.00	10.53	95.83	0.00	103.41	0.00
4.00	24.96	132.26	0.00	142.36	0.00
5.00	48.75	172.53	0.00	185.16	0.00
6.00	84.24	217.60	0.00	232.76	0.00
7.00	133.77	268.44	0.00	286.13	0.00
8.00	199.68	326.00	0.00	346.22	0.00
9.00	284.31	391.26	0.00	414.00	0.00
10.00	390.00	465.15	0.00	490.42	0.00
11.00	519.09	548.66	0.00	576.45	0.00
12.00	673.92	642.73	0.00	673.06	0.00

Based on 87596 Lbs. Food
 Total feed costs ==> 33593.1 <== Feed cost per lb. gained 0.4106
 Avg. food cost/lb.=> 0.3835 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Murray Springs Trout Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00035000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	364380	3239.0	112.50	0.00888907	2.939	1903649
Transfer In	1173723	6.4	183394.22	0.00000545	0.250	221157
Transfer Out	589207	3.2	184127.19	0.00000543	0.249	0
Plants	668574	23758.0	28.14	0.03553533	4.665	2446141
Ending Inventory	280322	3526.0	79.50	0.01257839	3.300	853734
TOTALS	0	24041.8				1175069

COST ==> 128378.00 <==
 DEPRECIATION ==> 54969.00 <== Cost per inch produced (direct cost)= 0.1093
 Cost per inch produced (direct cost + depreciation)= 0.1560

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.35	\$109.44	\$0.00	\$156.22	\$0.00
2.00	2.80	220.00	0.00	313.56	0.00
3.00	9.45	332.81	0.00	473.15	0.00
4.00	22.40	448.99	0.00	636.11	0.00
5.00	43.75	569.66	0.00	803.56	0.00
6.00	75.60	695.95	0.00	976.63	0.00
7.00	120.05	828.98	0.00	1156.44	0.00
8.00	179.20	969.88	0.00	1344.11	0.00
9.00	255.15	1119.76	0.00	1540.77	0.00
10.00	350.00	1279.75	0.00	1747.54	0.00
11.00	465.85	1450.97	0.00	1965.55	0.00
12.00	604.80	1634.56	0.00	2195.91	0.00

Based on 31188 Lbs. Food
 Total feed costs ==> 12861.27 <== Feed cost per lb. gained 0.5350
 Avg. food cost/lb.=> 0.4124 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Flathead Lake Salmon Hatchery
 Year > 1993 <==
 Condition Factor ==> 0.00030000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	0	0.0	0.00	0	0.000	0
Transfer In	2561014	575.0	4453.94	0.00022452	0.908	640253
Transfer Out	655416	69.0	9498.78	0.00010527	0.705	54337
Plants	1843598	1651.0	1116.66	0.00089553	1.440	2654781
Ending Inventory	62000	1.0	62000.00	0.00001612	0.377	12100
TOTALS	0	1146.0				2080965

COST ==> 84753.81 <==
 DEPRECIATION ==> 3441.00 <== Cost per inch produced (direct cost)= 0.0407
 Cost per inch produced (direct cost + depreciation)= 0.0424

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.30	\$41.07	\$0.00	\$42.72	\$0.00
2.00	2.40	84.16	0.00	87.47	0.00
3.00	8.10	131.32	0.00	136.28	0.00
4.00	19.20	184.58	0.00	191.19	0.00
5.00	37.50	245.95	0.00	254.22	0.00
6.00	64.80	317.48	0.00	327.41	0.00
7.00	102.90	401.20	0.00	412.78	0.00
8.00	153.60	499.14	0.00	512.37	0.00
9.00	218.70	613.32	0.00	628.20	0.00
10.00	300.00	745.78	0.00	762.32	0.00
11.00	399.30	898.55	0.00	916.74	0.00
12.00	518.40	1073.67	0.00	1093.51	0.00

Based on 677 Lbs. Food
 Total feed costs ==> 1293.07 <== Feed cost per lb. gained 1.1283
 Avg. food cost/lb.=> 1.9100 <== State Average \$0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Miles City Fish Hatchery
 Year > FY 1993 <==
 Condition Factor ==> 0.00031000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	425655	1120.8	379.78	0.00263311	2.040	242827
Transfer In	53630311	3295.0	16276.27	0.00006143	0.583	11855411
Transfer Out	20009294	1213.1	16494.35	0.00006062	0.580	4996647
Plants	33636600	5074.8	6628.16	0.00015087	0.787	11064028
Ending Inventory	410072	680.2	602.87	0.00165873	1.749	168282
TOTALS	0	2552.3				4130719

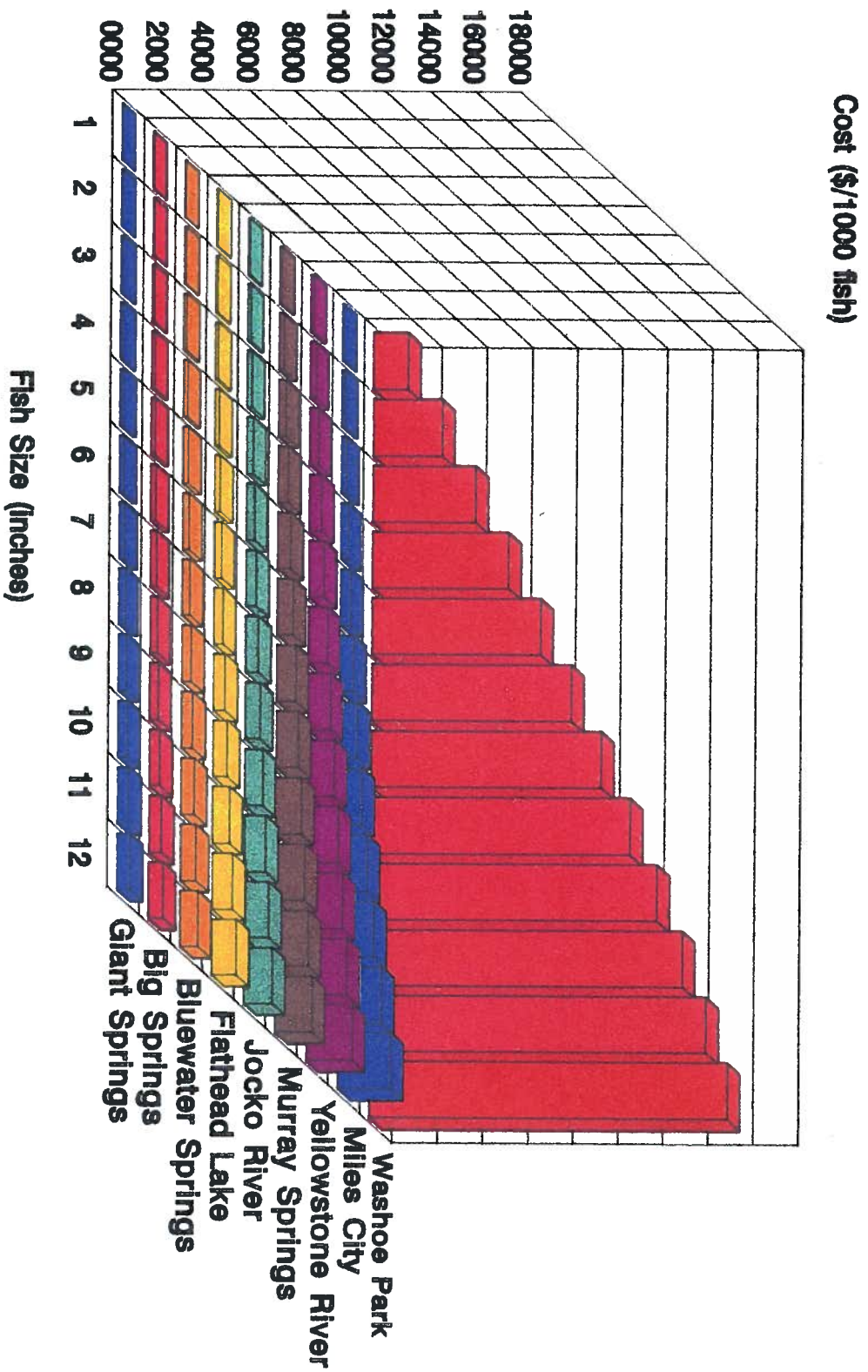
COST ==> 278184.06 <==
 DEPRECIATION ==> 164310.30 <== Cost per inch produced (direct cost)= 0.0673
 Cost per inch produced (direct cost + depreciation)= 0.1071

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	State Ave.	Cost with Depr. For Unit	State Ave.
1.00	0.31	\$68.22	\$0.00	\$108.00	\$0.00
2.00	2.48	141.67	0.00	221.23	0.00
3.00	8.37	225.61	0.00	344.94	0.00
4.00	19.84	325.25	0.00	484.36	0.00
5.00	38.75	445.84	0.00	644.73	0.00
6.00	66.96	592.63	0.00	831.29	0.00
7.00	106.33	770.84	0.00	1049.28	0.00
8.00	158.72	985.71	0.00	1303.93	0.00
9.00	225.99	1242.49	0.00	1600.48	0.00
10.00	310.00	1546.40	0.00	1944.18	0.00
11.00	412.61	1902.69	0.00	2340.25	0.00
12.00	535.68	2316.60	0.00	2793.93	0.00

Based on 80226 Lbs. Food
 Total feed costs ==> 7187.18 <== Feed cost per lb. gained 2.8160
 Avg. food cost/lb.=> 0.0896 <== State Average \$0.0000

Hatchery Cost Report (FY 93)



ANNUAL FISH FOOD ORDERS

Hatchery Summary
Year FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
Pounds	1700	4100	21900	53950	49550	10450	37950	1200	26900	11950	
Avg Price/lb	\$0.4587	\$0.4614	\$0.4559	\$0.4146	\$0.3930	\$0.3380	\$0.3218	\$0.3500	\$0.2876	\$0.3250	
Cost	\$779.77	\$1,891.57	\$9,983.76	\$22,365.00	\$19,475.50	\$3,532.45	\$12,212.22	\$420.00	\$7,736.25	\$3,883.75	
TOTALS	Pounds 219650										
	Avg Price/lb \$0.3746										
	Cost \$82,280.27										

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
Pounds	2390	2291	1376	3116	2018	1328	1820	7136	1414	15068	
Avg Price/lb	\$1.2791	\$1.2290	\$0.7592	\$0.7479	\$0.7058	\$0.6484	\$0.5498	\$0.6046	\$0.9160	\$0.5346	
Cost	\$3,057.13	\$2,815.59	\$1,044.61	\$2,330.47	\$1,424.33	\$861.13	\$1,000.72	\$4,314.70	\$1,295.18	\$8,055.09	
TOTALS	Pounds 37957										
	Avg Price/lb \$0.6902										
	Cost \$26,198.95										

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
Pounds	72619	8	4	22							
Avg Price/lb	\$0.0363	\$27.0382	\$40.4525	\$7.2727	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Cost	\$2,633.60	\$205.49	\$161.81	\$160.00							
TOTALS	Pounds 72653										
	Avg Price/lb \$0.0435										
	Cost \$3,160.90										

GRAND TOTALS	
Pounds	330259.8
Avg Price/lb	\$0.3380
Cost	\$111,640.12

ANNUAL FISH FOOD ORDERS

Hatchery - Washoe Park Trout Hatchery
Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	100	100	600	350			500	1200	2000	2950
	Avg Price/lb	\$0.5575	\$0.5575	\$0.5050	\$0.3900	\$0.0000	\$0.0000	\$0.5044	\$0.3500	\$0.3344	\$0.3250
	Cost	\$55.75	\$55.75	\$302.99	\$136.50			\$252.22	\$420.00	\$668.75	\$958.75
TOTALS	Pounds	7800									
	Avg Price/lb	\$0.3655									
	Cost	\$2,850.71									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	132	132	132	352	308	250		3486	1364	2500
	Avg Price/lb	\$1.0758	\$1.1888	\$0.8320	\$0.8266	\$0.8274	\$0.4810	\$0.0000	\$0.6955	\$0.9495	\$0.4810
	Cost	\$142.00	\$156.92	\$109.82	\$290.97	\$254.85	\$120.26		\$2,424.57	\$1,295.18	\$1,202.60
TOTALS	Pounds	8656									
	Avg Price/lb	\$0.6928									
	Cost	\$5,997.17									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
TOTALS	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

GRAND TOTALS		Pounds	Avg Price/lb	Cost
	Pounds	16456		
	Avg Price/lb	\$0.5377		
	Cost	\$8,847.88		

ANNUAL FISH FOOD ORDERS
 Hatchery - Jocko River Trout Hatchery
 Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds				5250	1250				2200	9000
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.3805	\$0.3800	\$0.0000	\$0.0000	\$0.0000	\$0.3250	\$0.3250
	Cost				\$1,997.50	\$475.00				\$715.00	\$2,925.00
TOTALS	Pounds	17700									
	Avg Price/lb	\$0.3453									
	Cost	\$6,112.50									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	88	220	750	2500		500	1600	2800		5750
	Avg Price/lb	\$1.0691	\$1.0806	\$0.6322	\$0.7035	\$0.0000	\$0.4827	\$0.5003	\$0.5060	\$0.0000	\$0.5207
	Cost	\$94.08	\$237.73	\$474.13	\$1,758.69		\$241.33	\$800.52	\$1,416.75		\$2,994.25
TOTALS	Pounds	14208									
	Avg Price/lb	\$0.5643									
	Cost	\$8,017.48									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										
TOTALS	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

GRAND TOTALS	
Pounds	31908
Avg Price/lb	\$0.4428
Cost	\$14,129.98

ANNUAL FISH FOOD ORDERS
 Hatchery - Yellowstone River Trout Hatchery
 Year - FY93

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		800	400	50						
	Avg Price/lb	\$0.0000	\$0.4525	\$0.4525	\$0.5800	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost		\$362.00	\$181.00	\$29.00						
TOTALS	Pounds	1250									
	Avg Price/lb	\$0.4576									
	Cost	\$572.00									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	176							850		4544
	Avg Price/lb	\$1.1779	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.5569	\$0.0000	\$0.6475
	Cost	\$207.31							\$473.38		\$2,942.16
TOTALS	Pounds	5570									
	Avg Price/lb	\$0.6504									
	Cost	\$3,622.85									

Producer	Other	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										
TOTALS	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

GRAND TOTALS	
Pounds	6820
Avg Price/lb	\$0.6151
Cost	\$4,194.85

ANNUAL FISH FOOD ORDERS

Hatchery - Bluewater Springs Trout Hatchery
Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	300	650	4200	10750	6950					
	Avg Price/lb	\$0.4525	\$0.4525	\$0.4525	\$0.4557	\$0.3800	\$0.0000	\$0.3082	\$0.0000	\$0.2417	\$0.0000
	Cost	\$135.76	\$294.13	\$1,900.51	\$4,899.00	\$2,641.00	\$3,867.50	\$1,885.00			
TOTALS	Pounds	43200									
	Avg Price/lb	\$0.3616									
	Cost	\$15,622.90									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
TOTALS	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
TOTALS	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

GRAND TOTALS	
Pounds	43200
Avg Price/lb	\$0.3616
Cost	\$15,622.90

ANNUAL FISH FOOD ORDERS

Hatchery - Giant Springs Trout Hatchery
Year - FY93

Producer	Silver Cup	St#r	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	500	1200	4900	8850	12900		4400		5500	
	Avg Price/lb	\$0.4525	\$0.4525	\$0.4525	\$0.3800	\$0.3800		\$0.3250	\$0.0000	\$0.3250	\$0.0000
	Cost	\$226.25	\$543.00	\$2,217.25	\$3,363.00	\$4,902.00		\$1,430.00		\$1,787.50	
TOTALS	Pounds	38250									
	Avg Price/lb	\$0.3783									
	Cost	\$14,469.00									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	176									1350
	Avg Price/lb	\$1.1400	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$200.64									
TOTALS	Pounds	1526									
	Avg Price/lb	\$0.1315									
	Cost	\$200.64									

Producer	Other	St#r	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
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	Pounds	2	5								
	Avg Price/lb	\$19.0909	\$18.2609	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$42.00	\$84.00								

TOTALS	Pounds	7									
	Avg Price/lb	\$18.5294									
	Cost	\$126.00									

GRAND TOTALS		Pounds	39782.8
	Pounds	39782.8	
	Avg Price/lb	\$0.3719	
	Cost	\$14,795.64	

ANNUAL FISH FOOD ORDERS
 Hatchery - Big Springs Trout Hatchery
 Year - FY93

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
TOTALS	Pounds	500	1050	8050	20750	19900		20500		9400	
	Avg Price/lb	\$0.4525	\$0.4628	\$0.4525	\$0.4245	\$0.4070		\$0.3250	\$0.0000	\$0.2851	\$0.0000
	Cost	\$226.26	\$485.94	\$3,642.63	\$8,807.50	\$8,098.50		\$6,662.50	\$0.0000	\$2,680.00	\$0.0000
TOTALS	Pounds	80150									
	Avg Price/lb	\$0.3818									
	Cost	\$30,603.33									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
TOTALS	Pounds	484	1232			1000				50	
	Avg Price/lb	\$1.0994	\$1.1094	\$0.0000	\$0.0000	\$0.5308	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$532.13	\$1,366.76	\$0.0000	\$0.0000	\$530.80	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
TOTALS	Pounds	2766									
	Avg Price/lb	\$0.8784									
	Cost	\$2,429.69									

Producer	Other	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
TOTALS	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000

GRAND TOTALS	
Pounds	82916
Avg Price/lb	\$0.3984
Cost	\$33,033.02

ANNUAL FISH FOOD ORDERS

Hatchery - Miles City Fish Hatchery
Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds			250	500	550					
	Avg Price/lb	\$0.0000	\$0.0000	\$0.5625	\$0.5000	\$0.4345	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost			\$140.63	\$250.00	\$239.00					
TOTALS	Pounds	1300									
	Avg Price/lb	\$0.4843									
	Cost	\$629.63									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	88	176	494	176	710	578	220			924
	Avg Price/lb	\$1.1790	\$1.1795	\$0.9325	\$0.9686	\$0.8995	\$0.8643	\$0.9100	\$0.0000	\$0.0000	\$0.9914
	Cost	\$103.75	\$207.59	\$460.66	\$170.48	\$638.68	\$499.54	\$200.20			\$916.08
TOTALS	Pounds	3366									
	Avg Price/lb	\$0.9498									
	Cost	\$3,196.98									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		3	4	22						
	Avg Price/lb	\$0.0000	\$40.4967	\$40.4525	\$7.2727	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost		\$121.49	\$161.81	\$160.00						
TOTALS	Pounds	29									
	Avg Price/lb	\$15.2862									
	Cost	\$443.30									

GRAND TOTALS		Pounds	Avg Price/lb	Cost
		4695	\$0.9095	\$4,269.91

ANNUAL FISH FOOD ORDERS
Hatchery - Miles City Fish Hatchery
Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										
TOTALS											
	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										
TOTALS											
	Pounds	0									
	Avg Price/lb	\$0.0000									
	Cost	\$0.00									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	1510									
	Avg Price/lb	\$0.1600	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$241.60									
TOTALS											
	Pounds	1510									
	Avg Price/lb	\$0.1600									
	Cost	\$241.60									

GRAND TOTALS		Pounds	Avg Price/lb	Cost
	Pounds	1510	\$0.1600	\$241.60
	Avg Price/lb		\$0.1600	
	Cost			\$241.60

ANNUAL FISH FOOD ORDERS
 Hatchery - Miles City Fish Hatchery
 Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS
 Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS
 Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	18900									
	Avg Price/lb	\$0.0690	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$1,304.60									

TOTALS
 Pounds 18900
 Avg Price/lb \$0.0690
 Cost \$1,304.60

GRAND TOTALS
 Pounds 18900
 Avg Price/lb \$0.0690
 Cost \$1,304.60

ANNUAL FISH FOOD ORDERS
 Hatchery - Miles City Fish Hatchery
 Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS

Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS

Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

Producer Other
 Altalfa Hay

	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
Pounds	52207									
Avg Price/lb	\$0.0200	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Cost	\$1,045.40									

TOTALS

Pounds 52207
 Avg Price/lb \$0.0200
 Cost \$1,045.40

GRAND TOTALS

Pounds 52207
 Avg Price/lb \$0.0200
 Cost \$1,045.40

ANNUAL FISH FOOD ORDERS
 Hatchery - Murray Springs Trout Hatchery
 Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
TOTALS	Pounds	3000	300	3500	7450	8000	10450				
	Avg Price/lb	\$0.4525	\$0.5025	\$0.4568	\$0.3869	\$0.3900	\$0.3380	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$135.75	\$150.75	\$1,598.75	\$2,882.50	\$3,120.00	\$3,532.45				
TOTALS	Pounds	30000									
	Avg Price/lb	\$0.3807									
Cost		\$11,420.20									

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
TOTALS	Pounds	836	264		88						
	Avg Price/lb	\$1.1891	\$1.2751	\$0.0000	\$1.2538	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$994.12	\$336.62		\$110.33						
TOTALS		1188									
Avg Price/lb		\$1.2130									
Cost		\$1,441.07									

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
TOTALS	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS		Pounds	0								
TOTALS		Avg Price/lb	\$0.0000								
TOTALS		Cost	\$0.00								
GRAND TOTALS		Pounds	31188								
GRAND TOTALS		Avg Price/lb	\$0.4124								
GRAND TOTALS		Cost	\$12,861.27								

ANNUAL FISH FOOD ORDERS
 Hatchery - Flathead Lake Salmon Hatchery
 Year - FY93

Producer	Silver Cup	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS
 Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

Producer	Bioproducts	St #1 & #2	St #3 & #4	1.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	410	267								
	Avg Price/lb	\$1.9100	\$1.9100	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost	\$783.10	\$509.97								

TOTALS
 Pounds 677
 Avg Price/lb \$1.9100
 Cost \$1,293.07

Producer	Other	Sttr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds										
	Avg Price/lb	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
	Cost										

TOTALS
 Pounds 0
 Avg Price/lb \$0.0000
 Cost \$0.00

GRAND TOTALS
 Pounds 677
 Avg Price/lb \$1.9100
 Cost \$1,293.07

SALE OF SURPLUS EYED FISH EGGS FROM
HATCHERY BROODSTOCKS
FY93

BID #	PURCHASING FIRM	CONTACT PERSON	DATE OF SALE	NUMBER SOLD	PRICE PER 1000	TOTAL SALES	EGG CODE	HAT	COMMENTS
93-1	Trout Haven	Dennis Sparks	01/08/93	72900	7.10	517.59	A001 J	02	Picked up by Sparks
93-1	Trout Haven	Dennis Sparks	01/08/93	42300	12.00	507.60	N001 J	02	Picked up by Dennis Sparks
94-1	Spring Creek Trout Hatchery	Carrie VonLind	01/14/93	200000	12.00	2400.00	A001 J	03	
93-2	Rainbow Springs	Tom Morgan	06/19/93	23000	10.00	230.00	M013	03	BKD Release Signed
93-2	Rainbow Springs	Tom Morgan	06/25/93	10000	10.00	100.00	M013	03	BKD Release Signed
93-3	Trout Haven	Dennis Sparks	12/16/93	250000	8.50	2125.00	A001 H	02	
93-4	Nelsons Spring Creek	Roger Nelson	12/29/93	30000	8.00	240.00	A001 I	03	
93-4	Sekokoni Springs	Vinson King	12/31/93	100000	8.00	800.00	A001 I	03	
*** Total ***				728200		6920.19			

