DEPARTMENT OF FISH, WILDLIFE AND PARKS

HATCHERY COST REPORTS

FOR

FY 1994

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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 FWP 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 used in this report. 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 brookstocks are credited for the first .25" of growth and is for all eggs produced irrespective of their disposition. In the Annual Hatchery Cost Report tables dead eggs, cleanup and incidental mortality is included in the Transferred Out figure. 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 for 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 with these fish. 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 1994, the Montana hatchery system stocked 43,413,642 fish which weighed 223,386 pounds. The direct costs to stock fish in FY 1994 were $0.035 per fish and $6.62 per pound. Direct costs to operate the nine state hatcheries in FY 1994 was $1,524,983.

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, 1993 TO JUNE 30, 1994

	Beginning Inventory		Transfers In		Transfers Out		Fish Planted		Ending Inventory	
Hatchery	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds
Anaconda	23,481	10,608	1,293,203	8	1,241,615	570	74,189	1,329	75,418	6,116
Arlee	23,481	10,608	5,750,707	36	4,314,275	27	219,861	17,332	42,588	12,785
Big Timber	436,642	3,875	1,711,437	0	1,420,783	8	423,759	5,034	241,253	2,133
Bluewater	43,053	5,344	1,272,709	850	108,964	1,402	807,230	37,797	62,998	2,107
Great Falls	359,907	11,965	1,540,270	49	93,745	114	1,479,503	46,489	135,587	7,321
Lewistown	870,825	16,740	3,879,479	4,580	997,410	9,880	2,289,164	84,119	1,052,215	18,910
Murray Springs	287,622	3,849	1,264,545	5	306,017	2	723,337	23,927	370,990	7,682
Somers	6,200	1	2,186,734	656	783,284	74	1,083,859	747	0	0
Subtotal	2,051,211	62,990	18,899,084	6,184	9,266,093	12,076	7,100,902	216,774	1,981,049	57,054
Miles City	425,655	1,121	64,414,797	1,933	70,000	5	36,312,740	6,612	504,189	3,011
TOTAL	2,476,866	64,111	83,313,881	8,117	9,336,093	12,081	43,413,642	223,386	2,485,238	60,065

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1993 TO JUNE 30 1994

Item	Anaconda – WPTH		Arlee – JRHT		Big Timber – YSRTH	
	Previous Year	1994	Previous Year	1994	Previous Year	1994
Salaries and Benifits	$95,896.68	$94,444.69	$96,563.00	$98,399.00	$68,805.62	$67,966.72
Operations and Maintenance minus food costs	49,442.16	56,602.23	25,107.02	30,275.42	$24,485.74	$23,746.93
equipment and other expenses	0.00	0.00	9,323.19	10,140.24	$1,781.62	$0.00
Subtotal	145,338.84	151,046.92	130,993.21	138,814.66	95,072.98	91,713.65
Feed costs	8,278.00	5,029.70	14,129.88	8,961.58	$3,496.09	$3,460.82
Total Direct Costs	153,616.84	156,076.62	145,123.09	147,776.24	98,569.07	95,174.47
Depreciation of Capital Expend.	11,825.82	17,825.75	9,905.40	9,905.40	$16,384.47	$17,930.98
Grand Total	$165,442.66	$173,902.37	$155,028.49	$157,681.64	$114,953.54	$113,105.45

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1993 TO JUNE 30 1994

Item	Bluewater – BWTH		Great Falls GSTH		Lewistown – BSTH	
	Previous Year	1994	Previous Year	1994	Previous Year	1994
Salaries and Benifits	$102,169.02	$101,948.03	$90,894.78	$92,555.33	$180,108.62	$173,598.19
Operations and Maintenance minus food costs	$38,412.83	$33,352.88	34,490.43	49,713.49	75,055.71	76,864.83
equipment and other expenses	$1,311.95	$900.00	1,864.34	465.58	968.00	0.00
Subtotal	141,893.80	136,200.91	127,249.55	142,734.40	256,132.33	250,463.02
Feed costs	$17,216.91	$14,313.72	14,452.68	14,718.27	33,593.10	37,199.80
Total Direct Costs	159,110.71	150,514.63	141,702.23	157,452.67	289,725.43	287,662.82
Depreciation of Capital Expend.	$15,107.46	$17,404.97	75,655.35	71,192.26	24,000.00	29,365.00
Grand Total	$174,218.17	$167,919.60	$217,357.58	$228,644.93	$313,725.43	$317,027.82

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1993 TO JUNE 30 1994

Item	Eurerka – MSTH Previous Year	1994	Somers – FLSH Previous Year	1994	Miles City – MCFH Previous Year	1994
Salaries and Benifits	$93,446.00	$95,115.81	$61,674.00	$63,234.00	$96,758.33	$107,465.40
Operations and Maintenance minus food costs	22,071.00	22,977.79	16,028.81	23,800.26	181,425.73	182,631.41
equipment and other expenses	0.00	0.00	7,051.00	13,000.00	41,687.00	0.00
Subtotal	115,517.00	118,093.60	84,753.81	100,034.26	319,871.06	290,096.81
Feed costs	12,861.00	13,395.13	1,293.07	504.00	7,187.18	8,201.45
Total Direct Costs	128,378.00	131,488.73	86,046.88	100,538.26	327,058.24	298,298.26
Depreciation of Capital Expend.	54,969.00	69,320.00	3,441.00	3,097.00	164,310.30	164,310.04
Grand Total	$183,347.00	$200,808.73	$89,487.88	$103,635.26	$491,368.54	$462,608.30

Item	TOTALS
Salaries and Benifits	$894,727.17
Operations and Maintenance minus food costs	499,965.24
equipment and other expenses	24,505.82
Subtotal	1,419,198.23
Feed costs	105,784.47
Total Direct Costs	1,524,982.70
Depreciation of Capital Expend.	400,351.40
Grand Total	$1,925,334.10

ANNUAL HATCHERY COST REPORT

Hatchery > Washoe Park Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00039000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	137431	3138.1	43.79	0.02283400	3.883	224425
Transfer In	1293203	0.0	0.00	0	0.000	135685
Transfer Out	1280027	570.0	2245.66	0.00044530	1.045	328922
Plants	75189	1328.0	56.62	0.01766215	3.564	159818
Ending Inventory	75418	6116.0	12.33	0.08109469	5.924	214259
TOTALS	0	4875.9				342889

COST ==> 151046.92 <==
DEPRECIATION ==> 17825.75 <== Cost per inch produced (direct cost)= 0.4405
Cost per inch produced (direct cost + depreciation)= 0.4925

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	$440.91	$99.07	$492.90	$114.77
2.00	3.12	884.24	$201.12	988.22	$232.53
3.00	10.53	1332.40	$309.12	1488.36	$356.23
4.00	24.96	1787.80	$426.04	1995.75	$488.86
5.00	48.75	2252.85	$554.87	2512.79	$633.39
6.00	84.24	2729.97	$698.58	3041.89	$792.81
7.00	133.77	3221.58	$860.15	3585.49	$970.08
8.00	199.68	3730.08	$1,042.55	4145.97	$1,168.18
9.00	284.31	4257.89	$1,248.75	4725.77	$1,390.09
10.00	390.00	4807.43	$1,481.75	5327.30	$1,638.79
11.00	519.09	5381.10	$1,744.50	5952.96	$1,917.24
12.00	673.92	5981.33	$2,039.98	6605.17	$2,228.43

Based on 7752 Lbs. Food
Total feed costs ==> 5029.7 <==
Avg. food cost/lb.=> 0.6488 <==

Feed cost per lb. gained 1.0315
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Jocko River Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00043000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	23481	10608.0	2.21	0.45176951	10.166	141784
Transfer In	5750707	36.0	159741.86	0.00000626	0.244	0
Transfer Out	5511739	27.0	204138.48	0.00000489	0.225	1377935
Plants	219861	17332.0	12.69	0.07883162	5.681	958424
Ending Inventory	42588	12785.0	3.33	0.30020193	8.871	252956
TOTALS	0	19500.0				2447531

COST ==> 138814.66 <==
DEPRECIATION ==> 9905.40 <== Cost per inch produced (direct cost)= 0.0567
Cost per inch produced (direct cost + depreciation)= 0.0608

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	$56.91	$99.07	$60.96	$114.77
2.00	3.44	115.01	$201.12	123.11	$232.53
3.00	11.61	175.48	$309.12	187.63	$356.23
4.00	27.52	239.51	$426.04	255.70	$488.86
5.00	53.75	308.28	$554.87	328.52	$633.39
6.00	92.88	382.98	$698.58	407.26	$792.81
7.00	147.49	464.80	$860.15	493.12	$970.08
8.00	220.16	554.91	$1,042.55	587.28	$1,168.18
9.00	313.47	654.51	$1,248.75	690.93	$1,390.09
10.00	430.00	764.78	$1,481.75	805.25	$1,638.79
11.00	572.33	886.90	$1,744.50	931.42	$1,917.24
12.00	743.04	1022.07	$2,039.98	1070.64	$2,228.43

Based on 27258 Lbs. Food
Total feed costs ==> 8961.58 <==
Avg. food cost/lb.=> 0.3288 <==

Feed cost per lb. gained 0.4596
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Yellowstone River Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00037050 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	436642	3874.6	112.69	0.00887363	2.883	709705
Transfer In	1711437	0.0	0.00	0	0.000	0
Transfer Out	1483067	8.0	185383.38	0.00000539	0.244	370767
Plants	423759	5033.8	84.18	0.01187899	3.177	1347553
Ending Inventory	241253	2123.4	113.62	0.00880154	2.875	418539
TOTALS	0	3290.6				1427154

COST ==> 95072.98 <==
DEPRECIATION ==> 17930.98 <== Cost per inch produced (direct cost) = 0.0666
Cost per inch produced (direct cost + depreciation) = 0.0792

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	$67.01	$99.07	$79.57	$114.77
2.00	2.96	136.35	$201.12	161.48	$232.53
3.00	10.00	210.37	$309.12	248.06	$356.23
4.00	23.71	291.41	$426.04	341.66	$488.86
5.00	46.31	381.79	$554.87	444.61	$633.39
6.00	80.03	483.87	$698.58	559.26	$792.81
7.00	127.08	599.97	$860.15	687.92	$970.08
8.00	189.70	732.44	$1,042.55	832.96	$1,168.18
9.00	270.09	883.62	$1,248.75	996.70	$1,390.09
10.00	370.50	1055.83	$1,481.75	1181.48	$1,638.79
11.00	493.14	1251.43	$1,744.50	1389.63	$1,917.24
12.00	640.22	1472.74	$2,039.98	1623.51	$2,228.43

Based on 4861 Lbs. Food
Total feed costs ==> 3460.82 <==
Avg. food cost/lb. => 0.7120 <==

Feed cost per lb. gained 1.0517
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Bluewater Springs Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	43053	5344.0	8.06	0.12412607	6.770	280015
Transfer In	1272709	850.1	1497.13	0.00066794	1.186	375669
Transfer Out	445534	1402.0	317.78	0.00314678	1.989	343680
Plants	807230	37797.0	21.36	0.04682308	4.892	3397772
Ending Inventory	62998	2106.6	29.91	0.03343915	4.373	198861
TOTALS	0	35111.5				3284629

COST ==> 136200.91 <==
DEPRECIATION ==> 17404.97 <== Cost per inch produced (direct cost) = 0.0415
Cost per inch produced (direct cost + depreciation) = 0.0468

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	$41.63	$99.07	$46.93	$114.77
2.00	3.20	84.24	$201.12	94.83	$232.53
3.00	10.80	128.80	$309.12	144.70	$356.23
4.00	25.60	176.30	$426.04	197.50	$488.86
5.00	50.00	227.71	$554.87	254.21	$633.39
6.00	86.40	284.02	$698.58	315.81	$792.81
7.00	137.20	346.19	$860.15	383.29	$970.08
8.00	204.80	415.22	$1,042.55	457.61	$1,168.18
9.00	291.60	492.07	$1,248.75	539.76	$1,390.09
10.00	400.00	577.73	$1,481.75	630.72	$1,638.79
11.00	532.40	673.17	$1,744.50	731.46	$1,917.24
12.00	691.20	779.37	$2,039.98	842.96	$2,228.43

Based on 38427 Lbs. Food
Total feed costs ==> 14313.72 <==
Avg. food cost/lb.=> 0.3725 <==

Feed cost per lb. gained 0.4077
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Giant Springs Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	359907	11964.9	30.08	0.03324442	4.364	1448302
Transfer In	1540270	48.9	31498.36	0.00003174	0.430	403411
Transfer Out	285087	113.9	2502.96	0.00039952	1.000	40043
Plants	1479503	46489.1	31.82	0.03142209	4.283	5848661
Ending Inventory	135587	7321.4	18.52	0.05399780	5.130	639191
TOTALS	0	41910.6				4676182

COST ==> 142734.40 <==
DEPRECIATION ==> 71192.26 <== Cost per inch produced (direct cost)= 0.0305
Cost per inch produced (direct cost + depreciation)= 0.0457

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	$30.66	$99.07	$45.89	$114.77
2.00	3.20	62.17	$201.12	92.62	$232.53
3.00	10.80	95.36	$309.12	141.04	$356.23
4.00	25.60	131.09	$426.04	191.98	$488.86
5.00	50.00	170.18	$554.87	246.30	$633.39
6.00	86.40	213.48	$698.58	304.83	$792.81
7.00	137.20	261.85	$860.15	368.42	$970.08
8.00	204.80	316.11	$1,042.55	437.91	$1,168.18
9.00	291.60	377.12	$1,248.75	514.14	$1,390.09
10.00	400.00	445.71	$1,481.75	597.95	$1,638.79
11.00	532.40	522.73	$1,744.50	690.20	$1,917.24
12.00	691.20	609.02	$2,039.98	791.72	$2,228.43

Based on 35242 Lbs. Food
Total feed costs ==> 14718.27 <==
Avg. food cost/lb.=> 0.4176 <==

Feed cost per lb. gained 0.3512
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Big Springs Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00390000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	870825	16740.0	52.02	0.01922315	1.702	2710000
Transfer In	3879479	4579.7	847.10	0.00118049	0.671	1782308
Transfer Out	1408925	9879.7	142.61	0.00701222	1.216	2108255
Plants	2289164	84119.0	27.21	0.03674660	2.112	8961821
Ending Inventory	1052215	18910.0	55.64	0.01797161	1.664	2651128
TOTALS	0	91589.0				9228896

COST ==> 250463.02 <==
DEPRECIATION ==> 29365.00 <== Cost per inch produced (direct cost)= 0.0271
Cost per inch produced (direct cost + depreciation)= 0.0303

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	3.90	$28.72	$99.07	$31.90	$114.77
2.00	31.20	66.95	$201.12	73.31	$232.53
3.00	105.30	124.19	$309.12	133.73	$356.23
4.00	249.60	209.93	$426.04	222.66	$488.86
5.00	487.50	333.70	$554.87	349.61	$633.39
6.00	842.40	504.98	$698.58	524.07	$792.81
7.00	1337.70	733.29	$860.15	755.57	$970.08
8.00	1996.80	1028.13	$1,042.55	1053.59	$1,168.18
9.00	2843.10	1399.00	$1,248.75	1427.64	$1,390.09
10.00	3900.00	1855.41	$1,481.75	1887.23	$1,638.79
11.00	5190.90	2406.87	$1,744.50	2441.87	$1,917.24
12.00	6739.20	3062.86	$2,039.98	3101.04	$2,228.43

Based on 91320 Lbs. Food
Total feed costs ==> 37199.8 <==
Avg. food cost/lb.=> 0.4074 <==

Feed cost per lb. gained 0.4062
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Murray Spring Trout Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00035000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	287622	3849.0	74.73	0.01338214	3.369	969286
Transfer In	1264545	5.0	252909.00	0.00000395	0.224	316136
Transfer Out	306017	1.5	204011.33	0.00000490	0.241	76504
Plants	723337	23927.0	30.23	0.03307863	4.555	3294800
Ending Inventory	370990	7682.0	48.29	0.02070675	3.897	144537
TOTALS	-151823	27756.5				2230419

COST ==> 118093.60 <==
DEPRECIATION ==> 69320.00 <== Cost per inch produced (direct cost)= 0.0529
Cost per inch produced (direct cost + depreciation)= 0.0840

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	$53.12	$99.07	$84.20	$114.77
2.00	2.80	107.24	$201.12	169.40	$232.53
3.00	9.45	163.40	$309.12	256.64	$356.23
4.00	22.40	222.60	$426.04	346.91	$488.86
5.00	43.75	285.85	$554.87	441.24	$633.39
6.00	75.60	354.17	$698.58	540.64	$792.81
7.00	120.05	428.56	$860.15	646.12	$970.08
8.00	179.20	510.06	$1,042.55	758.69	$1,168.18
9.00	255.15	599.66	$1,248.75	879.37	$1,390.09
10.00	350.00	698.38	$1,481.75	1009.17	$1,638.79
11.00	465.85	807.23	$1,744.50	1149.10	$1,917.24
12.00	604.80	927.23	$2,039.98	1300.19	$2,228.43

Based on 32592 Lbs. Food
Total feed costs ==> 13395.13 <==
Avg. food cost/lb.=> 0.4110 <==

Feed cost per lb. gained 0.4826
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Flathead Lake Salmon Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00030000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	62000	1.0	62000.00	0.00001612	0.377	12100
Transfer In	2186734	656.0	3333.44	0.00029999	1.000	564683
Transfer Out	1164875	74.0	15741.55	0.00006352	0.596	175728
Plants	1083859	747.0	1450.95	0.00068920	1.319	1777528
Ending Inventory	0	0.0	0.00	0	0.000	0
TOTALS	0	164.0				1376473

COST ==> 100034.26 <==
DEPRECIATION ==> 3097.00 <== Cost per inch produced (direct cost)= 0.0727
Cost per inch produced (direct cost + depreciation)= 0.0749

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	$73.60	$99.07	$75.85	$114.77
2.00	2.40	152.72	$201.12	157.22	$232.53
3.00	8.10	242.92	$309.12	249.67	$356.23
4.00	19.20	349.70	$426.04	358.70	$488.86
5.00	37.50	478.62	$554.87	489.87	$633.39
6.00	64.80	635.19	$698.58	648.69	$792.81
7.00	102.90	824.95	$860.15	840.70	$970.08
8.00	153.60	1053.43	$1,042.55	1071.43	$1,168.18
9.00	218.70	1326.17	$1,248.75	1346.42	$1,390.09
10.00	300.00	1648.69	$1,481.75	1671.19	$1,638.79
11.00	399.30	2026.53	$1,744.50	2051.28	$1,917.24
12.00	518.40	2465.22	$2,039.98	2492.22	$2,228.43

Based on 567 Lbs. Food
Total feed costs ==> 504 <==
Avg. food cost/lb.=> 0.8889 <==

Feed cost per lb. gained 3.0732
State Average $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Miles City Fish Hatchery
Year > FY1994 <==
Condition Factor ==> 0.00031000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	410072	680.2	602.87	0.00165873	1.749	168282
Transfer In	64414797	1933.3	33318.57	0.00003001	0.459	13612571
Transfer Out	28007940	5.6	5001417.86	0.00000019	0.086	7005881
Plants	36312740	6612.3	5491.70	0.00018209	0.837	12971337
Ending Inventory	504189	3011.3	167.43	0.00597256	2.681	573029
TOTALS	0	7015.7				6769394

COST ==> 290096.81 <==
DEPRECIATION ==> 164310.04 <== Cost per inch produced (direct cost)= 0.0429
Cost per inch produced (direct cost + depreciation)= 0.0671

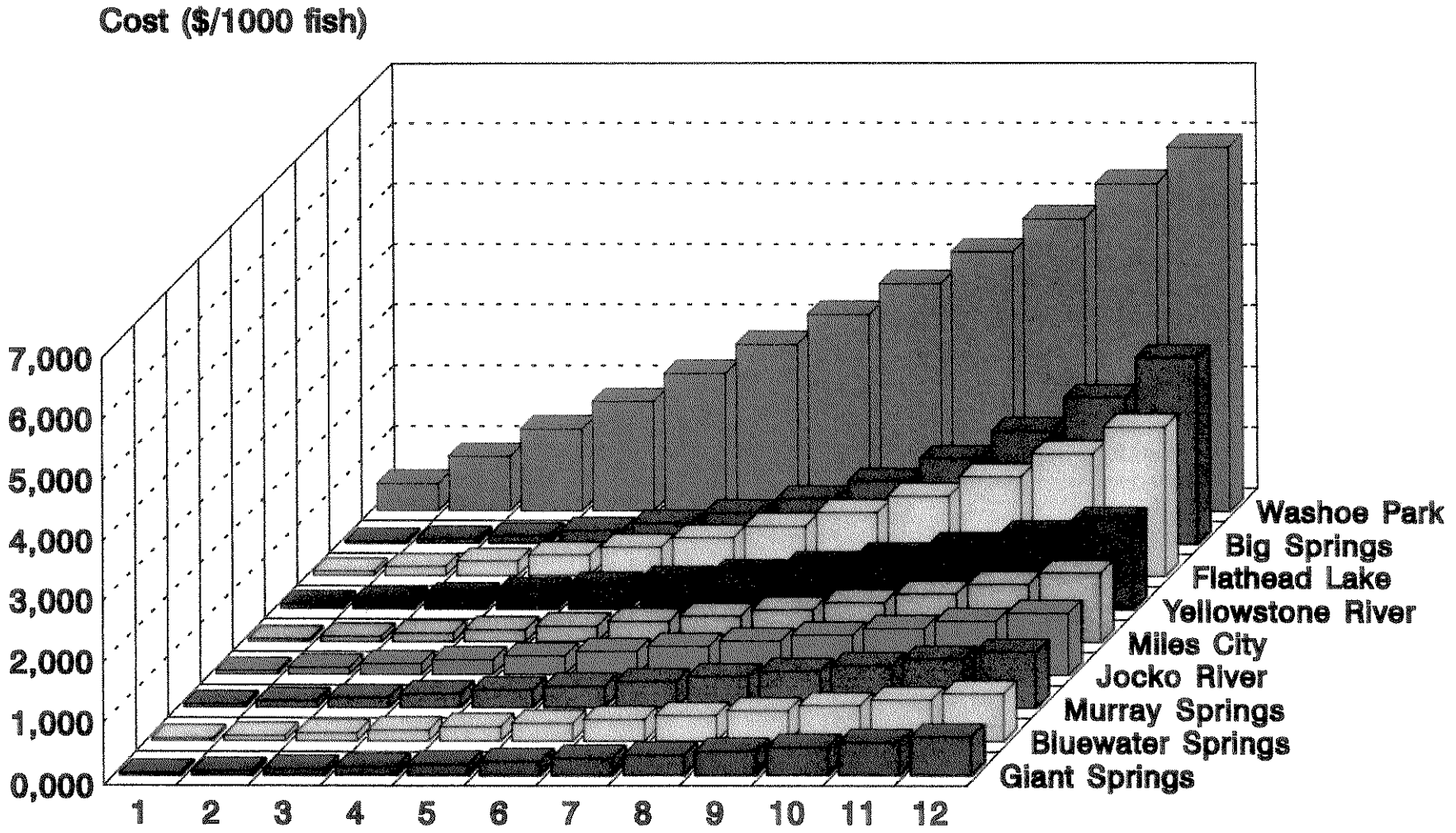
COST PREDICTOR BY SIZE

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	$43.22	$0.00	$67.49	$0.00
2.00	2.48	88.61	0.00	137.15	0.00
3.00	8.37	138.35	0.00	211.16	0.00
4.00	19.84	194.61	0.00	291.70	0.00
5.00	38.75	259.57	0.00	380.93	0.00
6.00	66.96	335.40	0.00	481.04	0.00
7.00	106.33	424.28	0.00	594.19	0.00
8.00	158.72	528.38	0.00	722.56	0.00
9.00	225.99	649.87	0.00	868.33	0.00
10.00	310.00	790.94	0.00	1033.66	0.00
11.00	412.61	953.74	0.00	1220.74	0.00
12.00	535.68	1140.47	0.00	1431.74	0.00

Based on 87076 Lbs. Food
Total feed costs ==> 8201.45 <==
Avg. food cost/lb.=> 0.0942 <==

Feed cost per lb. gained 1.1690
State Average $0.0000

Hatchery Cost Report
(FY 94)



Direct Costs

ANNUAL FISH FOOD ORDERS

Hatchery __ Summary of all nine hatcheries
Year FY94

Producer	Silver Cup									
		Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	2,550	3,150	25,550	46,600	57,750	800	45,650	2,350	29,050	12,200
	Avg Price/lb	$0.4654	$0.4525	$0.4552	$0.4049	$0.3953	$0.3800	$0.3425	$0.3538	$0.3357	$0.3301
	Cost	$1,186.76	$1,425.40	$11,630.58	$18,868.71	$22,827.90	$304.00	$15,636.14	$831.34	$9,752.40	$4,027.50

TOTALS	
Pounds	225,650
Avg Price/lb	$0.3833
Cost	$86,490.73

Producer	Bioproducts									
		St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	1,716	1,980	396	132	1,638	710	138	200	2,420	3,182
	Avg Price/lb	$1.1180	$1.1470	$0.9661	$1.0362	$0.4994	$0.8617	$0.7974	$0.6634	$0.9546	$0.7674
	Cost	$1,918.43	$2,271.10	$382.56	$136.78	$818.03	$611.80	$110.04	$132.68	$2,310.11	$2,441.92

TOTALS	
Pounds	12,512
Avg Price/lb	$0.8898
Cost	$11,133.45

Producer	Other									
		Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	83,070			50	50					
	Avg Price/lb	$0.0592	$0.0000	$0.0000	$0.4632	$0.3146	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$4,919.72			$23.16	$15.73					

TOTALS	
Pounds	83,170
Avg Price/lb	$0.0596
Cost	$4,958.61

GRAND TOTALS	
Pounds	321,332
Avg Price/lb	$0.3192
Cost	$102,582.79

ANNUAL FISH FOOD ORDERS

Hatchery __Washoe Park Trout Hatchery
Year FY94

Producer Silver Cup

	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
Pounds	50	50	250	300			400	350	2,700	
Avg Price/lb	$0.6776	$0.4526	$0.4525	$0.4640	$0.0000	$0.0000	$0.3717	$0.4824	$0.3497	$0.0000
Cost	$33.88	$22.63	$113.13	$139.21			$148.68	$168.84	$944.15	

TOTALS

Pounds	4,100
Avg Price/lb	$0.3831
Cost	$1,570.52

Producer Bioproducts

	St #1 & #2	St #3 & #4	I.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
Pounds	176	44	264	88	88	484	88		2,420	
Avg Price/lb	$1.1429	$1.1586	$0.9649	$0.9275	$0.9177	$0.8757	$0.8723	$0.0000	$0.9546	$0.0000
Cost	$201.15	$50.98	$254.73	$81.62	$80.76	$423.84	$76.76		$2,310.11	

TOTALS

Pounds	3,652
Avg Price/lb	$0.9529
Cost	$3,479.95

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	7,752
Avg Price/lb	$0.6515
Cost	$5,050.47

ANNUAL FISH FOOD ORDERS

Hatchery __ Jocko River Trout Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds			1,250	4,900	2,250	800		1,500	4,050	12,200
	Avg Price/lb	$0.0000	$0.0000	$0.5344	$0.3800	$0.3800	$0.3800	$0.0000	$0.3250	$0.3250	$0.3301
	Cost			$667.95	$1,862.00	$855.00	$304.00		$487.50	$1,316.25	$4,027.50
TOTALS											
	Pounds	26,950									
	Avg Price/lb	$0.3533									
	Cost	$9,520.20									

Producer	Bioproducts	St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	132	176								
	Avg Price/lb	$1.1586	$1.1586	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$152.94	$203.92								
TOTALS											
	Pounds	308									
	Avg Price/lb	$1.1586									
	Cost	$356.86									

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	27,258									
	Avg Price/lb	$0.3624									
	Cost	$9,877.06									

ANNUAL FISH FOOD ORDERS

Hatchery __Yellowstone River Trout Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		550	500	100						
	Avg Price/lb	$0.0000	$0.4525	$0.4525	$0.6060	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost		$248.88	$226.25	$60.60						

TOTALS	
Pounds	1,150
Avg Price/lb	$0.4659
Cost	$535.73

Producer	Bioproducts	St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	176						50	200		3,182
	Avg Price/lb	$1.2154	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.6656	$0.6634	$0.0000	$0.7674
	Cost	$213.91						$33.28	$132.68		$2,441.92

TOTALS	
Pounds	3,608
Avg Price/lb	$0.7821
Cost	$2,821.79

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	4,758
Avg Price/lb	$0.7057
Cost	$3,357.52

ANNUAL FISH FOOD ORDERS

Hatchery __ Bluewater Springs Trout Hatchery
Year FY94

Producer Silver Cup

	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
Pounds	350	600	4,100	6,200	7,400		10,800		6,900	
Avg Price/lb	$0.4834	$0.4525	$0.4525	$0.4252	$0.3800	$0.0000	$0.3250	$0.0000	$0.3387	$0.0000
Cost	$169.18	$271.51	$1,855.25	$2,636.00	$2,812.00		$3,510.00		$2,337.00	

TOTALS

Pounds	36,350
Avg Price/lb	$0.3739
Cost	$13,590.94

Producer Bioproducts

	St #1 & #2	St #3 & #4	l.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

	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	36,350
Avg Price/lb	$0.3739
Cost	$13,590.94

ANNUAL FISH FOOD ORDERS

Hatchery __ Giant Springs Trout Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	650	1,150	4,900	7,800	14,100		4,400		5,000	
	Avg Price/lb	$0.4525	$0.4525	$0.4525	$0.3800	$0.3800	$0.0000	$0.3250	$0.0000	$0.3250	$0.0000
	Cost	$294.13	$520.38	$2,217.25	$2,964.00	$5,358.00		$1,430.00		$1,625.00	

TOTALS

Pounds	38,000
Avg Price/lb	$0.3792
Cost	$14,408.76

Producer	Bioproducts	St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	132	44			50	50				
	Avg Price/lb	$1.1700	$1.1700	$0.0000	$0.0000	$0.6470	$0.6470	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$154.44	$51.48			$32.35	$32.35				

TOTALS

Pounds	276
Avg Price/lb	$0.9805
Cost	$270.62

Producer	Other Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds				50	50					
	Avg Price/lb	$0.0000	$0.0000	$0.0000	$0.4632	$0.3146	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost				$23.16	$15.73					

TOTALS

Pounds	100
Avg Price/lb	$0.3889
Cost	$38.89

GRAND TOTALS

Pounds	38,376
Avg Price/lb	$0.3835
Cost	$14,718.27

ANNUAL FISH FOOD ORDERS

Hatchery __ Big Springs Trout Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	500	800	10,050	17,050	23,550		24,000		10,400	
	Avg Price/lb	$0.4525	$0.4525	$0.4525	$0.4239	$0.4090	$0.0000	$0.3541	$0.0000	$0.3394	$0.0000
	Cost	$226.25	$362.00	$4,547.64	$7,227.00	$9,631.50		$8,499.38		$3,530.00	

TOTALS	
Pounds	86,350
Avg Price/lb	$0.3940
Cost	$34,023.77

Producer	Bioproducts	St #1 & #2	St #3 & #4	I.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	484	1,144	132		1,500					
	Avg Price/lb	$1.1595	$1.1525	$0.9684	$0.0000	$0.4699	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$561.19	$1,318.47	$127.83		$704.92					

TOTALS	
Pounds	3,260
Avg Price/lb	$0.8320
Cost	$2,712.41

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	89,610
Avg Price/lb	$0.4100
Cost	$36,736.18

ANNUAL FISH FOOD ORDERS

Hatchery __ Miles City Fish Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds			300	300	350					
	Avg Price/lb	$0.0000	$0.0000	$0.4525	$0.3900	$0.3900	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost			$135.76	$117.00	$136.50					
TOTALS											
	Pounds	950									
	Avg Price/lb	$0.4097									
	Cost	$389.26									

Producer	Bioproducts	St #1 & #2	St #3 & #4	I.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	Agribasics Alfalfa Pellets	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	83,070									
	Avg Price/lb	$0.0592	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$4,919.72									
TOTALS											
	Pounds	83,070									
	Avg Price/lb	$0.0592									
	Cost	$4,919.72									
GRAND TOTALS											
	Pounds	84,020									
	Avg Price/lb	$0.0632									
	Cost	$5,308.98									

ANNUAL FISH FOOD ORDERS

Hatchery __ Murray Springs Trout Hatchery
Year FY94

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	1,000		4,200	9,950	10,100		6,050	500		
	Avg Price/lb	$0.4633	$0.0000	$0.4446	$0.3882	$0.3995	$0.0000	$0.3385	$0.3500	$0.0000	$0.0000
	Cost	$463.32		$1,867.35	$3,862.90	$4,034.90		$2,048.08	$175.00		

TOTALS	
Pounds	31,800
Avg Price/lb	$0.3916
Cost	$12,451.55

Producer	Bioproducts	St #1 & #2	St #3 & #4	I.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	264	308		44		176				
	Avg Price/lb	$1.2179	$1.3354	$0.0000	$1.2536	$0.0000	$0.8841	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$321.52	$411.29		$55.16		$155.61				

TOTALS	
Pounds	792
Avg Price/lb	$1.1914
Cost	$943.58

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	32,592
Avg Price/lb	$0.4110
Cost	$13,395.13

ANNUAL FISH FOOD ORDERS

Hatchery __ Flathead Lake Salmon Hatchery
Year FY94

Producer	Silver Cup	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									

Producer	Bioproducts	St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
	Pounds	352	264								
	Avg Price/lb	$0.8900	$0.8900	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$313.28	$234.96								
TOTALS											
	Pounds	616									
	Avg Price/lb	$0.8900									
	Cost	$548.24									

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	616									
	Avg Price/lb	$0.8900									
	Cost	$548.24									

SALE OF SURPLUS EYED FISH EGGS FROM
HATCHERY BROODSTOCKS
FY94

BID #	PURCHASING FIRM	CONTACT PERSON	DATE OF SALE	NUMBER SOLD	PRICE PER 1000	TOTAL SALES	EGG TAKE CODE	EGG TAKE 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
93-2	Rainbow Springs	Tom Morgan	06/19/93	23000	10.00	230.00	M013	03	Release Signed
93-2	Rainbow Springs	Tom Morgan	06/25/93	10000	10.00	100.00	M013	03	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	
94-1	Spring Creek Trout Hatchery	Carrie VonLind	01/14/94	200000	12.00	2400.00	A001 J	03	
94-1	Rainbow Springs	Tom Morgan	01/14/94	30000	12.00	360.00	A001 J	03	
93-4	Sekokoni Springs	Vinson King	12/31/93	100000	8.00	800.00	A001 I	03	
94-2	Trout Haven	Dennis Sparks	12/20/94	160000	7.25	1160.00	A001 H	02	
94-3	Harriman Trout Company	Alan Harriman	12/30/94	80000	5.00	400.00	A001 I	02	80,000
94-3	Trout Haven	Dennis Sparks	12/30/94	100000	5.00	500.00	A001 I	02	
94-3	Sekokini Springs	Vinson King	12/30/94	50000	5.00	250.00	A001 I	02	
*** Total ***				1148200		9590.19			