DEPARTMENT OF FISH, WILDLIFE AND PARKS

HATCHERY COST REPORTS

FOR

FY 1996

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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.

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 1996, the Montana hatchery system stocked 43,283,094 fish which weighed 217,638 pounds. The direct costs to stock fish in FY 1996 were $0.036 per fish and $7.19 per pound. Direct costs to operate the nine state hatcheries in FY 1996 was $1,564,648.

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, 1995 TO JUNE 30, 1996

	Beginning Inventory		Transfers In		Transfers Out		Fish Planted		Ending Inventory	
Hatchery	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds
Anaconda	309,385	3,118	2,208,367	31	2,150,392	4,864	270,058	2,858	97,302	7,398
Arlee	21,172	8,628	5,333,365	0	5,046,243	35	287,257	19,626	21,037	130,452
Big Timber	191,666	3,560	1,512,025	0	1,360,161	259	182,867	3,025	160,663	2,470
Bluewater	99,228	3,690	1,958,445	74	1,028,619	2,443	678,351	40,040	350,703	11,244
Great Falls	414,509	12,338	1,420,122	1,105	377,171	880	904,561	38,385	551,899	19,490
Lewistown	1,152,795	20,070	1,924,245	2,636	1,091,051	3,951	1,511,202	87,290	474,787	21,304
Murray Springs	273,351	3,911	878,622	257	252,353	74	732,733	20,479	166,887	2,201
Somers	0	0	3,584,568	720	2,358,263	141	1,226,305	697	0	0
Subtotal	2,462,106	55,315	18,819,759	4,824	13,664,253	12,646	5,793,334	212,400	1,823,278	194,559
Miles City	88,998	1,068	94,017,413	1,753	56,531,812	417	37,489,760	5,238	84,839	1,798
TOTAL	2,551,104	56,383	112,837,172	6,578	70,196,065	13,063	43,283,094	217,638	1,908,117	196,357

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1995 TO JUNE 30 1996

Item	Eurerka - MSTH Previous Year	1996	Somers - FLSH Previous Year	1996	Miles City - MCFH Previous Year	1996
Salaries and Benifits	$103,170.00	$113,753.73	$82,113.00	$86,830.00	$111,494.04	$118,166.75
Operations and Maintenance minus food costs	22,752.97	29,829.17	16,331.00	21,861.72	142,204.02	145,450.70
equipment and other expenses	0.00	0.00	0.00	0.00	0.00	1,680.00
Subtotal	125,922.97	143,582.90	98,444.00	108,691.72	253,698.06	265,297.45
Feed costs	10,660.00	10,414.91	862.00	316.00	7,620.99	10,470.63
Total Direct Costs	136,582.97	153,997.81	99,306.00	109,007.72	261,319.05	275,768.08
Depreciation of Capital Expend.	57,416.16	65,927.00	2,527.00	3,250.00	163,369.35	167,050.20
Grand Total	$193,999.13	$219,924.81	$101,833.00	$112,257.72	$424,688.40	$442,818.28

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1995TO JUNE 30 1996

Item	Bluewater - BWTH Previous Year	1996	Great Falls GSTH Previous Year	1996	Lewistown - BSTH Previous Year	1996
Salaries and Benifits	$106,713.25	$96,844.19	$96,745.39	$87,526.59	$180,017.31	$172,507.94
Operations and Maintenance minus food costs	$37,537.96	$33,124.40	40,461.20	41,770.27	62,777.07	69,066.32
equipment and other expenses	$0.00	$487.00	1,035.88	1,469.20	4,125.00	10,903.00
Subtotal	144,251.21	130,455.59	138,242.47	130,766.06	246,919.38	252,477.26
Feed costs	$15,192.45	$18,434.90	15,899.53	19,694.22	36,478.82	44,061.96
Total Direct Costs	159,443.66	148,890.49	154,142.00	150,460.28	283,398.20	296,539.22
Depreciation of Capital Expend.	$16,014.17	$4,767.56	64,582.26	70,760.72	29,571.00	36,152.00
Grand Total	$175,457.83	$153,658.05	$218,724.26	$221,221.00	$312,969.20	$332,691.22

COMPARISON OF TOTAL COSTS OF FISH PRODUCED

FOR JULY 1, 1995 TO JUNE 30 1996

Item	Anaconda - WPTH		Arlee - JRHT		Big Timber - YSRTH	
	Previous Year	1996	Previous Year	1996	Previous Year	1996
Salaries and Benifits	$99,050.42	$108,765.43	$98,671.00	$112,707.10	$66,973.54	$74,434.70
Operations and Maintenance minus food costs	27,896.48	45,475.90	31,807.44	30,307.63	$21,272.51	$25,822.82
equipment and other expenses	5,633.50	5,479.26	2,589.47	3,493.96	$491.50	$908.99
Subtotal	132,580.40	159,720.59	133,067.91	146,508.69	88,737.55	101,166.51
Feed costs	5,802.92	11,690.56	7,379.28	8,929.37	$3,176.24	$1,968.25
Total Direct Costs	138,383.32	171,411.15	140,447.19	155,438.06	91,913.79	103,134.76
Depreciation of Capital Expend.	45,391.00	45,391.10	9,905.40	9,905.40	$17,930.98	$17,330.98
Grand Total	$183,774.32	$216,802.25	$150,352.59	$165,343.46	$109,844.77	$120,465.74

ANNUAL HATCHERY COST REPORT

Hatchery > Murray Springs Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00035000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	273351	3911.0	69.89	0.01430761	3.445	940327
Transfer In	878622	257.0	3418.76	0.0002925	0.942	219656
Transfer Out	252353	74.0	3410.18	0.00029324	0.943	63088
Plants	732733	20479.0	35.78	0.02794879	4.306	3155148
Ending Inventory	166887	2201.0	75.82	0.01318856	3.353	559071
TOTALS	0	18586.0				2617324

COST ==> 153,997.81 <==
DEPRECIATION ==> 65927.00 <== Cost per inch produced (direct cost)= 0.0588
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	Cost with Depr. For Unit
1.00	0.35	$59.03	$84.22
2.00	2.80	119.24	169.62
3.00	9.45	181.81	257.37
4.00	22.40	247.90	348.66
5.00	43.75	318.70	444.65
6.00	75.60	395.39	546.52
7.00	120.05	479.13	655.45
8.00	179.20	571.11	772.62
9.00	255.15	672.50	899.20
10.00	350.00	784.49	1036.37
11.00	465.85	908.24	1185.31
12.00	604.80	1044.93	1347.19

Based on 23718 Lbs. Food
Total feed costs ==> 10413.91 <==
Avg. food cost/lb.=> 0.4391 <==

Feed cost per lb. gained 0.5603
State Averag $0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Miles City Fish Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00031000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	88,998	1068.0	83.33	0.01200027	3.383	168,083
Transfer In	94,017,413	1753.4	53620.06	0.00001865	0.392	4,700,871
Transfer Out	56,531,812	417.3	135470.43	7.382E-06	0.288	2,836,245
Plants	37,489,760	5237.7	7157.68	0.00013971	0.767	13,487,786
Ending Inventory	84,839	1798.1	47.18	0.02119426	4.089	179,715
TOTALS	0	4631.7				11,634,792

COST ==> 265297.45 <==
DEPRECIATION ==> 167050.20 <== Cost per inch produced (direct cost)= 0.0228
Cost per inch produced (direct cost + depreciation)= 0.0372

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	$23.50		$37.86	
2.00	2.48	51.21		79.93	
3.00	8.37	87.33		130.40	
4.00	19.84	136.06		193.49	
5.00	38.75	201.61		273.40	
6.00	66.96	288.19		374.33	
7.00	106.33	399.99		500.49	
8.00	158.72	541.23		656.09	
9.00	225.99	716.10		845.32	
10.00	310.00	928.82		1072.40	
11.00	412.61	1183.59		1341.52	
12.00	535.68	1484.61		1656.90	

Based on 94080 Lbs. Food
Total feed costs ==> 10470.63 <==
Avg. food cost/lb.=> 0.1113 <==

Feed cost per lb. gained 2.2606
State Averag $0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Bluewater Springs Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	99228	3690.3	26.89	0.03719011	4.530	198861
Transfer In	1958445	74.4	26323.19	0.00003799	0.456	489611
Transfer Out	1028619	2443.0	421.05	0.00237503	1.811	1251420
Plants	678351	40040.4	16.94	0.05902608	5.284	3301221
Ending Inventory	350703	11244.0	31.19	0.03206132	4.312	1127061
TOTALS	0	49962.7				4991230

COST ==> 130455.59 <==
DEPRECIATION ==> 4767.56 <== Cost per inch produced (direct cost)= 0.0261
Cost per inch produced (direct cost + depreciation)= 0.0271

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	$26.28	$0.00	$27.24	$0.00
2.00	3.20	53.45	0.00	55.37	0.00
3.00	10.80	82.40	0.00	85.26	0.00
4.00	25.60	113.99	0.00	117.81	0.00
5.00	50.00	149.13	0.00	153.91	0.00
6.00	86.40	188.70	0.00	194.43	0.00
7.00	137.20	233.58	0.00	240.27	0.00
8.00	204.80	284.66	0.00	292.30	0.00
9.00	291.60	342.83	0.00	351.42	0.00
10.00	400.00	408.96	0.00	418.51	0.00
11.00	532.40	483.95	0.00	494.46	0.00
12.00	691.20	568.68	0.00	580.14	0.00

Based on 48088 Lbs. Food
Total feed costs ==> 18434.9 <==
Avg. food cost/lb.=> 0.3834 <==

Feed cost per lb. gained 0.3690
State Averag $0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Yellowstone River Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00035000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	191666	3560.2	53.84	0.01857502	3.758	382016
Transfer In	1512025	0.0	0.00	0	0.000	0
Transfer Out	1360161	259.0	5251.59	0.00019042	0.816	329492
Plants	182867	3025.0	60.45	0.01654208	3.616	382325
Ending Inventory	160663	2470.0	65.05	0.01537379	3.528	282725
TOTALS	0	2193.8				612526

COST ==> 103134.76 <==
DEPRECIATION ==> 17330.98 <== Cost per inch produced (direct cost)= 0.1684
Cost per inch produced (direct cost + depreciation)= 0.1967

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	$168.69		$196.98	
2.00	2.80	339.26		395.85	
3.00	9.45	513.61		598.49	
4.00	22.40	693.60		806.78	
5.00	43.75	881.13		1022.60	
6.00	75.60	1078.08		1247.85	
7.00	120.05	1286.34		1484.40	
8.00	179.20	1507.79		1734.14	
9.00	255.15	1744.30		1998.95	
10.00	350.00	1997.78		2280.72	
11.00	465.85	2270.09		2581.33	
12.00	604.80	2563.13		2902.66	

Based on 3539 Lbs. Food Feed cost per lb. gained 0.8972
Total feed costs ==> 1968.25 <== State Averag $0.4353
Avg. food cost/lb.=> 0.5562 <==

ANNUAL HATCHERY COST REPORT

Hatchery > Big Springs Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00039200 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	1152795	20070.0	57.44	0.01740986	3.541	2684899
Transfer In	1924245	2636.4	729.88	0.0013701	1.518	749813
Transfer Out	1091051	3950.5	276.18	0.00362082	2.098	1454087
Plants	1511202	87289.9	17.31	0.0577619	5.282	7188994
Ending Inventory	474787	21304.2	22.29	0.04487107	4.855	1359217
TOTALS	0	89838.2				6567586

COST ==> 296539.22 <==
DEPRECIATION ==> 36152.00 <== Cost per inch produced (direct cost)= 0.0452
Cost per inch produced (direct cost + depreciation)= 0.0507

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	$45.34		$50.85	
2.00	3.14	91.84		102.85	
3.00	10.58	140.65		157.16	
4.00	25.09	192.91		214.93	
5.00	49.00	249.79		277.32	
6.00	84.67	312.44		345.47	
7.00	134.46	382.01		420.54	
8.00	200.70	459.65		503.69	
9.00	285.77	546.52		596.07	
10.00	392.00	643.78		698.83	
11.00	521.75	752.57		813.12	
12.00	677.38	874.05		940.10	

Based on 102686 Lbs. Food
Total feed costs ==> 44061.96 <==
Avg. food cost/lb.=> 0.4291 <==

Feed cost per lb. gained 0.4905
State Averag $0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Giant Springs Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00040000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	414509	12337.9	33.60	0.0297651	4.206	1535425
Transfer In	1420122	1105.1	1285.06	0.00077817	1.248	1420122
Transfer Out	377171	879.5	428.84	0.00233186	1.800	422454
Plants	905561	38385.2	23.59	0.04238831	4.732	3968277
Ending Inventory	551899	19490.0	28.32	0.03531443	4.453	2004040
TOTALS	0	45311.7				3439224

COST ==> 150460.28 <==
DEPRECIATION ==> 221221.00 <== Cost per inch produced (direct cost)= 0.0437
Cost per inch produced (direct cost + depreciation)= 0.1081

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	$43.92		$108.25	
2.00	3.20	88.90		217.54	
3.00	10.80	135.97		328.94	
4.00	25.60	186.19		443.48	
5.00	50.00	240.61		562.22	
6.00	86.40	300.27		686.21	
7.00	137.20	366.24		816.50	
8.00	204.80	439.55		954.13	
9.00	291.60	521.25		1100.16	
10.00	400.00	612.40		1255.63	
11.00	532.40	714.05		1421.60	
12.00	691.20	827.24		1599.12	

Based on 45782 Lbs. Food
Total feed costs ==> 19814.94 <==
Avg. food cost/lb.=> 0.4328 <==

Feed cost per lb. gained 0.4373
State Averag $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Jocko River Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00044000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	21172	8628.0	2.45	0.40751937	9.748	114940
Transfer In	5333365	0.0	0.00	0	0.000	0
Transfer Out	5046243	34.7	145424.87	6.876E-06	0.250	1261561
Plants	287257	19626.0	14.64	0.06832209	5.375	848620
Ending Inventory	21037	8889.0	2.37	0.42254124	9.866	130452
TOTALS	0	19921.7				2125693

COST ==> 155438.06 <==
DEPRECIATION ==> 13399.36 <== Cost per inch produced (direct cost)= 0.0731
Cost per inch produced (direct cost + depreciation)= 0.0794

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	0.44	$73.32		$79.62	
2.00	3.52	147.82		160.43	
3.00	11.88	224.70		243.61	
4.00	28.16	305.12		330.33	
5.00	55.00	390.27		421.79	
6.00	95.04	481.34		519.16	
7.00	150.92	579.51		623.63	
8.00	225.28	685.96		736.39	
9.00	320.76	801.88		858.62	
10.00	440.00	928.45		991.49	
11.00	585.64	1066.86		1136.19	
12.00	760.32	1218.27		1293.92	

Based on 25850 Lbs. Food
Total feed costs ==> 8929.37 <==
Avg. food cost/lb.=> 0.3454 <==

Feed cost per lb. gained 0.4482
State Averag $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Jocko River Trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00044000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	21172	8628.0	2.45	0.40751937	9.748	114940
Transfer In	5333365	0.0	0.00	0	0.000	0
Transfer Out	5046243	34.7	145424.87	6.876E-06	0.250	1261561
Plants	287257	19626.0	14.64	0.06832209	5.375	848620
Ending Inventory	21037	8889.0	2.37	0.42254124	9.866	130452
TOTALS	0	19921.7				2125693

COST ==> 155438.06 <==
DEPRECIATION ==> 13399.36 <== Cost per inch produced (direct cost)= 0.0731
Cost per inch produced (direct cost + depreciation)= 0.0794

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	0.44	$73.32		$79.62	
2.00	3.52	147.82		160.43	
3.00	11.88	224.70		243.61	
4.00	28.16	305.12		330.33	
5.00	55.00	390.27		421.79	
6.00	95.04	481.34		519.16	
7.00	150.92	579.51		623.63	
8.00	225.28	685.96		736.39	
9.00	320.76	801.88		858.62	
10.00	440.00	928.45		991.49	
11.00	585.64	1066.86		1136.19	
12.00	760.32	1218.27		1293.92	

Based on 25850 Lbs. Food
Total feed costs ==> 8929.37 <==
Avg. food cost/lb.=> 0.3454 <==

Feed cost per lb. gained 0.4482
State Averag $0.4353

ANNUAL HATCHERY COST REPORT

Hatchery > Washoe Park trout Hatchery
Year > FY1996 <==
Condition Factor ==> 0.00035000 <==

	Number of Fish	Total Weight	Fish Per Pound	Wt. of Ave. Fish	Ave. Fish Length	Total Length (Inches)
Beginning Inventory	309,385	3118.0	99.23	0.01007806	3.065	270666
Transfer In	2,208,367	31.0	71237.65	0.00001404	0.342	292862
Transfer Out	2,150,392	4864.0	442.10	0.00226191	1.863	493144
Plants	270,058	2858.0	94.49	0.01058291	3.115	431229
Ending Inventory	97,302	7398.0	13.15	0.07603133	6.011	371379
TOTALS	0	11971.0				732224

COST ==> 167931.89 <==
DEPRECIATION ==> 48870.00 <== Cost per inch produced (direct cost)= 0.2293
Cost per inch produced (direct cost + depreciation)= 0.2961

COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	Cost with Depr. For Unit
1.00	0.35	$229.63	$296.37
2.00	2.80	460.97	594.46
3.00	9.45	695.73	895.96
4.00	22.40	935.63	1202.60
5.00	43.75	1182.37	1516.08
6.00	75.60	1437.67	1838.12
7.00	120.05	1703.23	2170.42
8.00	179.20	1980.77	2514.70
9.00	255.15	2271.99	2872.67
10.00	350.00	2578.62	3246.04
11.00	465.85	2902.36	3636.52
12.00	604.80	3244.91	4045.82

Based on 14795 Lbs. Food
Total feed costs ==> 9753.64 <==
Avg. food cost/lb.=> 0.6593 <==

Feed cost per lb. gained 0.8148
State Averag $0.0000

ANNUAL HATCHERY COST REPORT

Hatchery > Flathead Lake Salmon Hatchery
Year > FY1996 <==
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	3584568	720.2	4977.25	0.00020091	0.875	716913
Transfer Out	2358263	140.8	16749.03	0.0000597	0.584	528690
Plants	1226305	697.0	1759.35	0.00056839	1.237	1760726
Ending Inventory	0	0.0	0.00	0	0.000	0
TOTALS	0	117.6				1572503

COST ==> 112357.72 <==
DEPRECIATION ==> 3250.00 <== Cost per inch produced (direct cost)= 0.0715
Cost per inch produced (direct cost + depreciation)= 0.0735

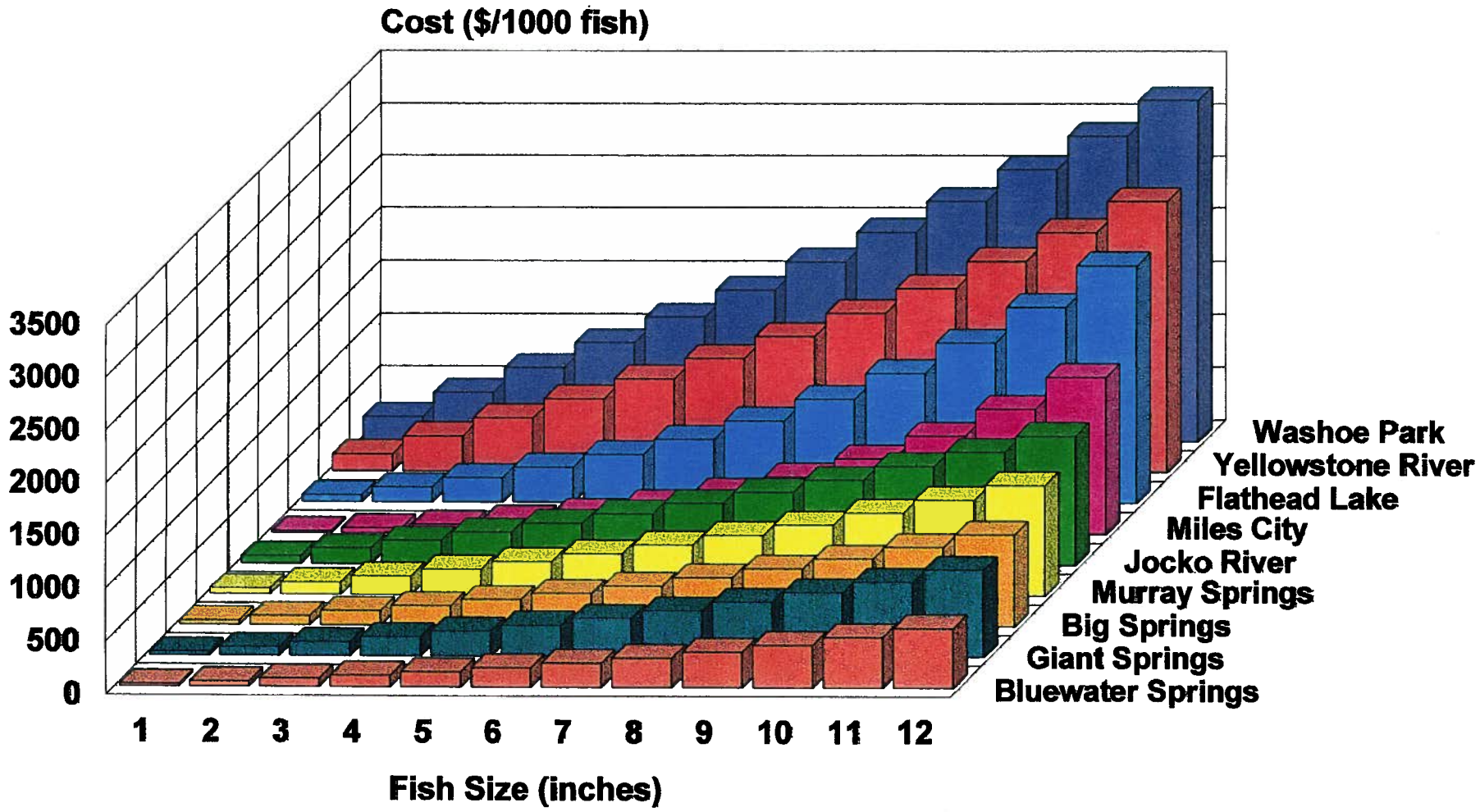
COST PREDICTOR BY SIZE

Fish Size In Inches	Weight of 1000 Fish	Direct Costs For Unit	Cost with Depr. For Unit
1.00	0.30	$72.26	$74.32
2.00	2.40	149.35	153.48
3.00	8.10	236.11	242.31
4.00	19.20	337.38	345.65
5.00	37.50	458.00	468.33
6.00	64.80	602.79	615.19
7.00	102.90	776.59	791.06
8.00	153.60	984.24	1000.78
9.00	218.70	1230.58	1249.18
10.00	300.00	1520.43	1541.10
11.00	399.30	1858.64	1881.38
12.00	518.40	2250.04	2274.84

Based on 408.6 Lbs. Food
Total feed costs ==> 316 <==
Avg. food cost/lb.=> 0.7734 <==

Feed cost per lb. gained 2.6864
State Averag $0.4353

Hatchery Cost Report
(FY 95)



Direct Costs

ANNUAL FISH FOOD ORDERS

Hatchery __ Washoe Park Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	750	4,100	17,550	37,300	59,650	0	67,200	1,650	37,400	14,450
	Avg Price/lb	$0.6731	$0.5386	$0.5417	$0.4429	$0.4066	$0.0000	$0.3453	$0.3178	$0.3416	$0.3201
	Cost	$504.84	$2,208.12	$9,506.39	$16,519.33	$24,256.62		$23,204.76	$524.42	$12,774.24	$4,625.71

TOTALS	
Pounds	240,050
Avg Price/lb	$0.3921
Cost	$94,124.43

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	1,232	612	2,368	2,724	2,386	716	500	6,700	1,574
	Avg Price/lb	$1.3025	$1.2538	$1.1246	$0.8837	$1.2040	$1.1016	$0.9302	$0.7980	$0.9193	$0.7889
	Cost	$2,235.02	$1,544.64	$688.24	$2,092.67	$3,279.82	$2,628.31	$666.03	$399.00	$6,159.60	$1,241.69

TOTALS	
Pounds	20,528
Avg Price/lb	$1.0198
Cost	$20,935.02

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	90,940	100	250	500	700		800		6,950	0
	Avg Price/lb	$0.0769	$0.7233	$0.4815	$0.4887	$0.4175	$0.0000	$0.3619	$0.0000	$0.3856	$0.0000
	Cost	6,990	$72.33	$120.38	$244.35	$292.25		$289.52		$2,679.92	$0.00

TOTALS	
Pounds	100,240
Avg Price/lb	$0.1066
Cost	$10,688.96

GRAND TOTALS	
Pounds	360,818
Avg Price/lb	$0.3485
Cost	$125,748.41

ANNUAL FISH FOOD ORDERS

Hatchery __ Flathead Lake Salmon Hatchery
Year FY96

Producer	Rangens	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	$0.9800	$0.9800	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$344.96	$258.72								
TOTALS											
	Pounds	616									
	Avg Price/lb	$0.9800									
	Cost	$603.68									

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	$0.9800
Cost	$603.68

ANNUAL FISH FOOD ORDERS

Hatchery __ Murray Springs Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		1,100	3,150	3,850	6,800		7,450	400		
	Avg Price/lb	$0.0000	$0.5169	$0.5444	$0.3983	$0.3630	$0.0000	$0.3354	$0.3408	$0.0000	$0.0000
	Cost		$568.64	$1,714.89	$1,533.60	$2,468.13		$2,498.48	$136.32		

TOTALS		
	Pounds	22,750
	Avg Price/lb	$0.3921
	Cost	$8,920.06

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	440	44	88	44	352					
	Avg Price/lb	$1.5206	$1.5136	$1.7493	$1.7414	$1.4989	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$669.06	$66.60	$153.94	$76.62	$527.63					

TOTALS		
	Pounds	968
	Avg Price/lb	$1.5432
	Cost	$1,493.85

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	23,718
	Avg Price/lb	$0.4391
	Cost	$10,413.91

ANNUAL FISH FOOD ORDERS

Hatchery Miles City Hatchery (2)
Year FY96

Producer	Rangens	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	BioKyowa	B400	B700	C700	C1000						
	Pounds	0	0	0	0						
	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	0	0	0						
TOTALS											
	Pounds	0									
	Avg Price/lb	$0.0000									
	Cost	$0.00									

Producer	Agribasics	Alfalfa Meal									
	Pounds	90,490									
	Avg Price/lb	$0.0740	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	6,696									
TOTALS											
	Pounds	90,490									
	Avg Price/lb	$0.0740									
	Cost	$6,696.26									
GRAND TOTALS											
	Pounds	90,490									
	Avg Price/lb	$0.0740									
	Cost	$6,696.26									

ANNUAL FISH FOOD ORDERS

Hatchery Miles City Hatchery (1)
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		0	250	0	0	0	0	0	0	0
	Avg Price/lb	$0.0000	$0.0000	$0.5655	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost		$0.00	$141.38	$0.00	$0.00					

TOTALS

Pounds	250
Avg Price/lb	$0.5655
Cost	$141.38

Producer	Bioproducts	St #1 & #2	St #3 & #4	l.0mm	1.3mm	1.5mm	2.5mm	3.0mm	4.0mm	5.0mm	10.0mm
	Pounds		132	220	532	480	626	716	500	100	484
	Avg Price/lb	$0.0000	$2.1363	$1.4153	$0.9733	$0.9668	$0.8684	$0.9302	$0.7980	$0.7770	$0.7673
	Cost		$281.99	$311.37	$517.82	$464.06	$543.61	$666.03	$399.00	$77.70	$371.38

TOTALS

Pounds	3,790
Avg Price/lb	$0.9586
Cost	$3,632.96

Producer	Other	BioKyowa B400	BioKyowa B700	BioKyowa C700	BioKyowa C1000	#4	#5	3/32"	1/8"	5/32"	Alfalfa Pellets
	Pounds	0	0	0	0						0
	Avg Price/lb	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$0.00	$0.00	$0.00	$0.00						$0.00

TOTALS

Pounds	0
Avg Price/lb	$0.0000
Cost	$0.00

GRAND TOTALS

Pounds	4,040
Avg Price/lb	$0.9342
Cost	$3,774.34

ANNUAL FISH FOOD ORDERS

Hatchery __ Big Springs Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		400	7,300	13,100	22,350		32,600		16,300	
	Avg Price/lb	$0.0000	$0.5420	$0.5371	$0.4647	$0.4028	$0.0000	$0.3522	$0.0000	$0.3523	$0.0000
	Cost		$216.79	$3,920.64	$6,088.06	$9,003.48		$11,481.98		$5,742.30	

TOTALS

Pounds	92,050
Avg Price/lb	$0.3960
Cost	$36,453.25

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	484	660		1,440	1,232	1,100				
	Avg Price/lb	$1.2175	$1.1047	$0.0000	$0.7805	$1.3564	$1.3629	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$589.26	$729.10		$1,123.97	$1,671.10	$1,499.15				

TOTALS

Pounds	4,916
Avg Price/lb	$1.1417
Cost	$5,612.58

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	96,966
Avg Price/lb	$0.4338
Cost	$42,065.83

ANNUAL FISH FOOD ORDERS

Hatchery __ Giant Springs Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		1,050	3,200	13,000	16,550		5,300		6,000	
	Avg Price/lb	$0.0000	$0.5356	$0.5508	$0.4546	$0.4347	$0.0000	$0.3408	$0.0000	$0.3345	$0.0000
	Cost		$562.42	$1,762.58	$5,910.43	$7,193.84		$1,806.24		$2,006.90	
TOTALS											
	Pounds	45,100									
	Avg Price/lb	$0.4267									
	Cost	$19,242.41									

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	88	44								
	Avg Price/lb	$1.4350	$1.8600	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$126.28	$81.84								
TOTALS											
	Pounds	132									
	Avg Price/lb	$1.5767									
	Cost	$208.12									

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	400	100	50							
	Avg Price/lb	$0.6736	$0.7233	$0.4524	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$269.45	$72.33	$22.62							
TOTALS											
	Pounds	550									
	Avg Price/lb	$0.6625									
	Cost	$364.40									
GRAND TOTALS											
	Pounds	45,782									
	Avg Price/lb	$0.4328									
	Cost	$19,814.93									

ANNUAL FISH FOOD ORDERS

Hatchery __ Bluewater Springs Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	750	1,050	2,950	4,850	11,400		20,500		10,100	
	Avg Price/lb	$0.6731	$0.5446	$0.5336	$0.4094	$0.4016	$0.0000	$0.3408	$0.0000	$0.3265	$0.0000
	Cost	$504.84	$571.84	$1,574.18	$1,985.59	$4,578.42		$6,986.40		$3,298.06	
TOTALS											
	Pounds	51,600									
	Avg Price/lb	$0.3779									
	Cost	$19,499.33									

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	44			88						
	Avg Price/lb	$1.4998	$0.0000	$0.0000	$1.5824	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$65.99			$139.25						
TOTALS											
	Pounds	132									
	Avg Price/lb	$1.5548									
	Cost	$205.24									

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	51,732									
	Avg Price/lb	$0.3809									
	Cost	$19,704.57									

ANNUAL FISH FOOD ORDERS

Hatchery __ Yellowstone River Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		300	50	50	100				100	1,850
	Avg Price/lb	$0.0000	$0.5551	$0.5028	$0.5028	$0.5606	$0.0000	$0.0000	$0.0000	$0.6750	$0.3234
	Cost		$166.52	$25.14	$25.14	$56.06				$67.50	$598.27
TOTALS											
	Pounds	2,450									
	Avg Price/lb	$0.3831									
	Cost	$938.63									

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									1,090
	Avg Price/lb	$1.4998	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.7984
	Cost	$197.97									$870.31
TOTALS											
	Pounds	1,222									
	Avg Price/lb	$0.8742									
	Cost	$1,068.28									

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	3,672									
	Avg Price/lb	$0.5465									
	Cost	$2,006.91									

ANNUAL FISH FOOD ORDERS

Hatchery __ Jocko River Trout Hatchery
Year FY96

Producer	Rangens	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds		200	650	2,450	2,450		1,350	1,250	4,900	12,600
	Avg Price/lb	$0.0000	$0.6096	$0.5655	$0.3986	$0.3905	$0.0000	$0.3197	$0.3105	$0.3387	$0.3196
	Cost		$121.91	$367.58	$976.51	$956.69		$431.66	$388.10	$1,659.48	$4,027.44
TOTALS											
	Pounds	25,850									
	Avg Price/lb	$0.3454									
	Cost	$8,929.37									

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	44	44								
	Avg Price/lb	$1.1777	$1.4323	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
	Cost	$51.82	$63.02								
TOTALS											
	Pounds	88									
	Avg Price/lb	$1.3050									
	Cost	$114.84									

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	25,938									
	Avg Price/lb	$0.3487									
	Cost	$9,044.21									

ANNUAL FISH FOOD ORDERS

Hatchery __ Washoe Park Trout Hatchery
Year FY96

Producer	Rangens	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	132	44	304	264	660	660			6,600	
	Avg Price/lb	$1.4370	$1.4402	$0.7333	$0.8902	$0.9349	$0.8872	$0.0000	$0.0000	$0.9215	$0.0000
	Cost	$189.68	$63.37	$222.93	$235.01	$617.03	$585.55			$6,081.90	
TOTALS											
	Pounds	8,664									
	Avg Price/lb	$0.9228									
	Cost	$7,995.47									

Producer	Silver Cup	Strtr	#1	#2	#3	#4	#5	3/32"	1/8"	5/32"	1/4"
	Pounds	50		200	500	700		800		6,950	
	Avg Price/lb	$0.4900	$0.0000	$0.4888	$0.4887	$0.4175	$0.0000	$0.3619	$0.0000	$0.3856	$0.0000
	Cost	$24.50		$97.76	$244.35	$292.25		$289.52		$2,679.92	
TOTALS											
	Pounds	9,200									
	Avg Price/lb	$0.3944									
	Cost	$3,628.30									
GRAND TOTALS											
	Pounds	17,864									
	Avg Price/lb	$0.6507									
	Cost	$11,623.77									

JOCKO RIVER TROUT HATCHERY
ARLEE RAINBOW
EGG SALES
FY-96

SPECIES	DATE	STATION	EGGS OZ	TOT OZ	TOT EGGS	COST 1000	TOTL SALE
A001	11/16/95	TIM HUGHES	290	14.0	4060	0.00	0.00
A001	12/22/95	D. SPARKS	264	771.0	203544	7.50	1498.86
A001	12/28/95	M.DAVIS	264	16.0	4224	7.50	30.00
A001	01/07/96	T. MORGAN	369	18.0	6642	15.00	98.49
A001	01/24/96	A.HARRIMAN	253	282.0	71346	5.00	350.00
A001	01/23/96	D.SPARKS	253	80.0	20240	5.00	100.00
A001	01/23/96	D.SPARKS	381	161.0	61341	5.00	300.00
*** Total ***				1342	371397		2377.35

Sale of Surplus Eggs From Yellowstone River Trout Hatchery

Species	Purchaser	Number	Total Sale
Yellowstone Cutthroat	Roy Wodarz	20,352	$200
Yellowstone Cutthroat	Rainbow Springs	20,202	$200
Totals		40,554	$400