

# NSRAA Benefit : Cost Analysis Spring 2025

We developed our accounting method for Benefit-Cost in 2010. This method uses historical data and lets us track the benefit: cost ratio over the history of each project to look at trends, and to get a more complete picture of each program over time. We believe this provides a much more accurate analysis for each project than previous “pro forma” methods. In a sense, this is a record of “what actually happened” as opposed to “what we estimate might happen” based on several assumptions – which we all know have a way of playing out in unexpected ways.

This table summarizes Benefit: Cost ratios calculated using the accounting method. The ratios are calculated for brood years with “nearly complete” return data (through 5-year-old returns for chum and through 4–ocean returns for Chinook).

Program	Cumulative Values					
	Cost	Comm Value	CR Value	Total Value	BC1	BC2
<b>Chinook</b>	<b>\$21,695,838</b>	<b>\$23,484,453</b>	<b>\$6,711,576</b>	<b>\$30,196,028</b>	<b>1.1</b>	<b>1.4</b>
Hidden Falls Chinook	\$5,776,534	\$6,379,212	\$909,600	\$7,288,812	1.1	1.3
MEDVEJIE CHINOOK	\$15,919,304	\$17,105,240	\$5,801,976	\$22,907,216	1.1	1.4
<b>Chinook Zero</b>	<b>\$1,069,699</b>	<b>\$680,137</b>	<b>\$227,494</b>	<b>\$861,972</b>	<b>0.6</b>	<b>0.8</b>
MEDVEJIE CHINOOK ZERO	\$1,069,699	\$680,137	\$227,494	\$861,972	0.6	0.8
<b>Chum</b>	<b>\$66,073,021</b>	<b>\$315,013,019</b>	<b>\$109,235,986</b>	<b>\$424,249,005</b>	<b>4.8</b>	<b>6.4</b>
Crawfish Chum	\$2,379,272	\$36,375,179	\$35,109,622	\$71,484,801	15.3	30.0
Gunnuk Creek Chum	\$2,008,910	\$142,151	\$250,056	\$392,207	0.1	0.2
HAINES INC BOX CHUM	\$955,000	\$788,781	\$0	\$788,781	0.8	0.8
Hidden Falls Chum	\$30,352,231	\$105,443,197	\$35,345,383	\$140,788,580	3.5	4.6
Medveje Chum	\$25,107,604	\$165,798,480	\$28,462,040	\$194,260,520	6.6	7.7
Southeast Cove Chum	\$3,596,139	\$3,347,475	\$10,068,885	\$13,416,359	0.9	3.7
Thomas Bay Chum	\$1,673,865	\$3,117,757	\$0	\$3,117,757	1.9	1.9
<b>Coho</b>	<b>\$28,498,834</b>	<b>\$32,487,583</b>	<b>\$20,050,936</b>	<b>\$52,538,519</b>	<b>1.1</b>	<b>1.8</b>
Deer Lake Coho	\$14,912,552	\$14,799,157	\$9,813,100	\$24,612,256	1.0	1.7
Hidden Falls Coho	\$9,718,660	\$12,713,332	\$10,182,979	\$22,896,311	1.3	2.4
Medveje Coho	\$765,464	\$2,446,307	\$44,396	\$2,490,703	3.2	3.3
Sawmill Creek Coho	\$3,102,158	\$2,528,787	\$10,461	\$2,539,249	0.8	0.8
<b>Grand Total</b>	<b>\$117,337,392</b>	<b>\$371,665,191</b>	<b>\$136,225,992</b>	<b>\$507,845,525</b>	<b>3.2</b>	<b>4.3</b>

B C 1 = commercial value / project cost

B C 2 = (commercial + CR) value / project cost

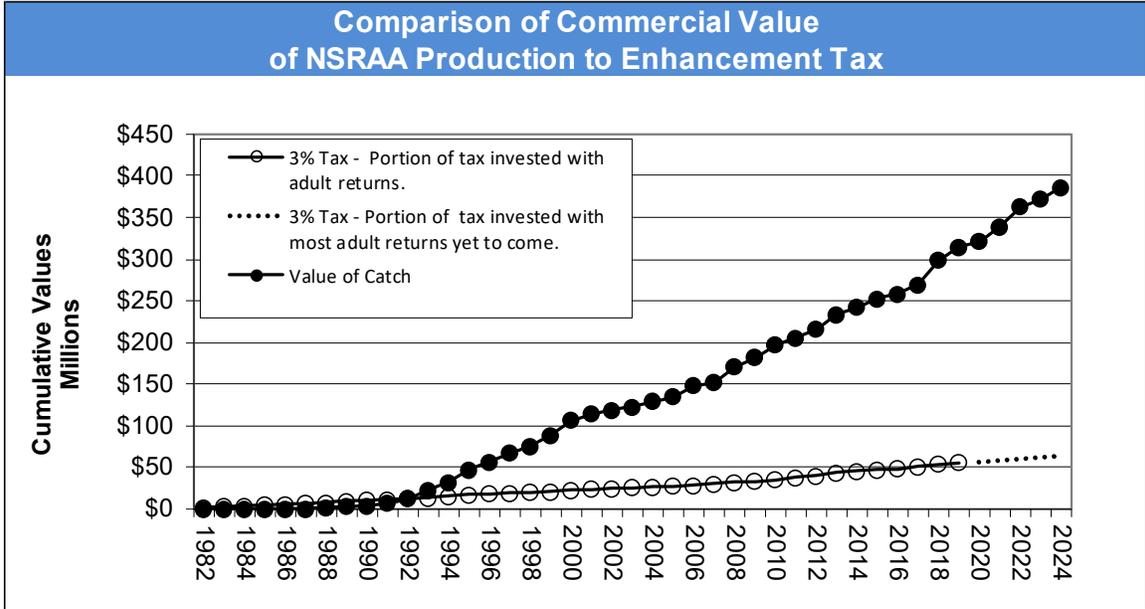
Chinook and Coho tables include each program’s sport catch estimate. We do not calculate a value for sport catch.

On the following pages are summaries of each of the projects shown above. Notice there is a set of Benefit: Cost calculations for each brood year individually, as well as a set of cumulative calculations. The cumulative values are shown in the above table (incomplete brood years are not included).

The next page shows Benefit: Cost in terms of Commercial Value (Benefit): 3% Tax (Cost).

The remaining pages show Benefit: Cost in terms of Commercial / CR Value (Value): Operations Budget (Cost).

## NSRAA Benefit : Cost Update Spring 2025



### NSRAA BENEFIT: COST

Using Commercial Value as Benefit and 3% Tax as Cost:

Enhancement (3%) Tax paid by fishermen 1980-2020: **\$ 55,373,123**

**This amount funds returns through 2024**

Enhancement (3%) Tax paid by fishermen 1980-2024: **\$ 62,747,134**

**This amount funds returns through 2029**

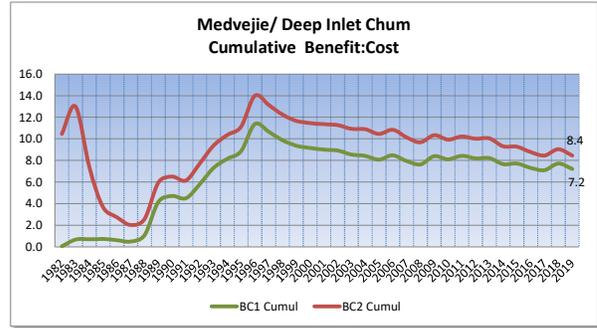
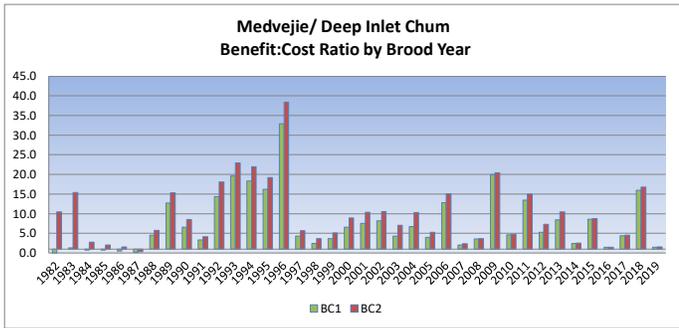
Commercial Value of NSRAA Salmon 1984-2024: **\$ 386,262,142**

**BENEFIT : COST RATIO = 7.0 : 1**

Medveje Chum Benefit:Cost Ratio

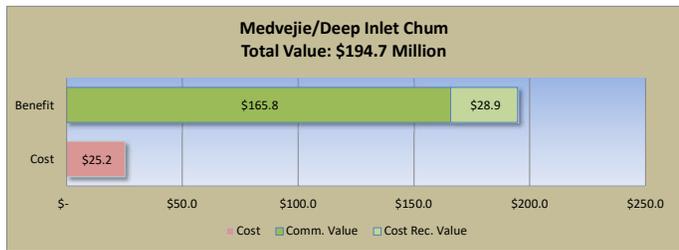
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
1982	2,460,713	216,153	8.78%	1983	\$20,424	\$904	\$212,690	\$213,594	0.0	10.5	F
1983	2,558,282	111,821	4.37%	1984	\$21,234	\$26,910	\$300,617	\$327,527	1.3	15.4	F
1984	6,232,400	35,396	0.57%	1985	\$51,729	\$37,310	\$106,065	\$143,375	0.7	2.8	F
1985	25,223,405	139,402	0.55%	1986	\$214,399	\$157,764	\$282,701	\$440,465	0.7	2.1	F
1986	29,166,200	137,228	0.47%	1987	\$233,888	\$111,085	\$248,150	\$359,235	0.5	1.5	F
1987	28,140,700	42,677	0.15%	1988	\$239,196	\$45,012	\$43,066	\$88,078	0.2	0.4	F
1988	16,374,300	287,149	1.75%	1989	\$139,182	\$629,088	\$177,277	\$806,364	4.5	5.8	F
1989	34,405,100	1,933,343	5.62%	1990	\$329,935	\$4,195,648	\$862,184	\$5,057,832	12.7	15.3	F
1990	29,648,000	1,370,617	4.62%	1991	\$356,409	\$2,351,567	\$672,208	\$3,023,775	6.6	8.5	F
1991	23,354,400	488,368	2.09%	1992	\$274,397	\$917,250	\$208,948	\$1,126,198	3.3	4.1	F
1992	29,730,500	2,708,660	9.11%	1993	\$283,958	\$4,075,565	\$1,047,657	\$5,123,222	14.4	18.0	F
1993	29,264,800	3,258,597	11.13%	1994	\$263,460	\$5,166,613	\$873,800	\$6,040,413	19.6	22.9	F
1994	32,043,800	2,734,032	8.53%	1995	\$209,047	\$3,831,123	\$766,715	\$4,597,839	18.3	22.0	F
1995	39,578,000	2,637,691	6.66%	1996	\$250,767	\$4,066,490	\$755,420	\$4,821,910	16.2	19.2	F
1996	38,575,000	5,132,505	13.31%	1997	\$337,463	\$11,094,302	\$1,869,069	\$12,963,371	32.9	38.4	F
1997	39,320,000	750,129	1.91%	1998	\$370,970	\$1,602,435	\$510,847	\$2,113,283	4.3	5.7	F
1998	39,840,000	602,766	1.51%	1999	\$371,737	\$905,645	\$443,971	\$1,349,616	2.4	3.6	F
1999	39,071,000	1,171,444	3.00%	2000	\$345,174	\$1,250,970	\$508,690	\$1,759,660	3.6	5.1	F
2000	40,925,600	1,963,110	4.80%	2001	\$376,232	\$2,471,119	\$890,655	\$3,361,774	6.6	8.9	F
2001	47,741,800	2,017,267	4.23%	2002	\$476,197	\$3,579,963	\$1,372,337	\$4,952,300	7.5	10.4	F
2002	48,208,000	2,082,882	4.32%	2003	\$583,937	\$4,775,285	\$1,372,471	\$6,147,756	8.2	10.5	F
2003	50,795,650	1,025,995	2.02%	2004	\$497,192	\$2,146,654	\$1,351,989	\$3,498,643	4.3	7.0	F
2004	51,876,900	933,030	1.80%	2005	\$476,955	\$3,195,944	\$1,700,925	\$4,896,869	6.7	10.3	F
2005	59,967,387	671,885	1.12%	2006	\$555,810	\$2,201,505	\$718,543	\$2,920,048	4.0	5.3	F
2006	61,877,019	1,749,901	2.83%	2007	\$683,627	\$8,728,084	\$1,555,909	\$10,283,993	12.8	15.0	F
2007	60,718,274	288,580	0.48%	2008	\$729,256	\$1,462,307	\$241,935	\$1,704,242	2.0	2.3	F
2008	52,280,372	455,511	0.87%	2009	\$661,385	\$2,357,302	\$86,124	\$2,443,426	3.6	3.7	F
2009	60,794,478	2,762,398	4.54%	2010	\$622,108	\$12,421,645	\$275,841	\$12,697,486	20.0	20.4	F
2010	60,690,446	901,756	1.49%	2011	\$839,038	\$3,911,734	\$128,958	\$4,040,692	4.7	4.8	F
2011	67,174,164	2,480,565	3.69%	2012	\$688,125	\$9,246,451	\$1,058,898	\$10,305,349	13.4	15.0	F
2012	69,394,912	1,368,087	1.97%	2013	\$903,686	\$4,759,853	\$1,803,348	\$6,563,201	5.3	7.3	F
2013	71,017,257	1,778,484	2.50%	2014	\$1,063,517	\$8,947,495	\$2,163,732	\$11,111,228	8.4	10.5	F
2014	76,572,581	576,142	0.75%	2015	\$1,454,971	\$3,485,052	\$198,823	\$3,683,875	2.4	2.5	F
2015	69,045,791	2,007,030	2.91%	2016	\$1,193,767	\$10,252,198	\$210,930	\$10,463,128	8.6	8.8	F
2016	57,549,945	470,435	0.82%	2017	\$1,110,466	\$1,625,241	\$44,975	\$1,670,216	1.5	1.5	F
2017	85,953,676	1,260,440	1.47%	2018	\$1,347,239	\$5,939,352	\$228,101	\$6,167,452	4.4	4.6	F
2018	66,441,776	3,386,573	5.10%	2019	\$1,380,147	\$22,026,003	\$1,113,264	\$23,139,267	16.0	16.8	F
2019	86,197,657	692,827	0.80%	2020	\$1,717,297	\$2,555,576	\$134,406	\$2,689,982	1.5	1.6	F
2020	77,531,586	3,673,727	4.74%	2021	\$1,733,533	\$8,034,528	\$1,987,434	\$10,021,962	4.6	5.8	I
2021	72,675,440	554,257	0.76%	2022	\$1,773,577	\$1,209,506	\$407,348	\$1,616,854	0.7	0.9	I
	<b>1,880,417,311</b>	<b>56,858,860</b>			<b>\$25,181,428</b>	<b>\$165,798,480</b>	<b>\$28,937,018</b>	<b>\$194,735,498</b>			

Status: F = Final ; I = Incomplete adult returns  
 Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
 BC2 = Total Value (commercial & cost recovery) / Project Cost.  
 This chart shows ratios for brood years with complete adult returns.

Cumulative Benefit: Cost Ratio currently is 7.2:1 for BC1 and 8.4:1 for BC2.

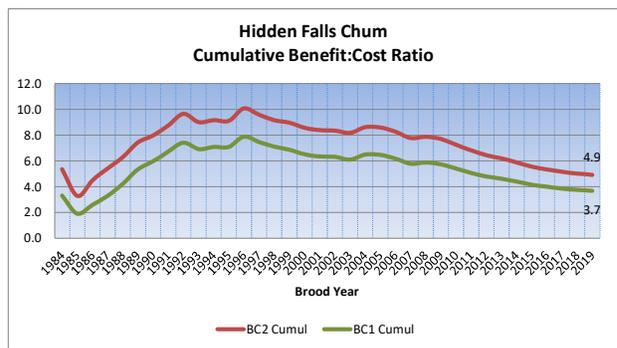
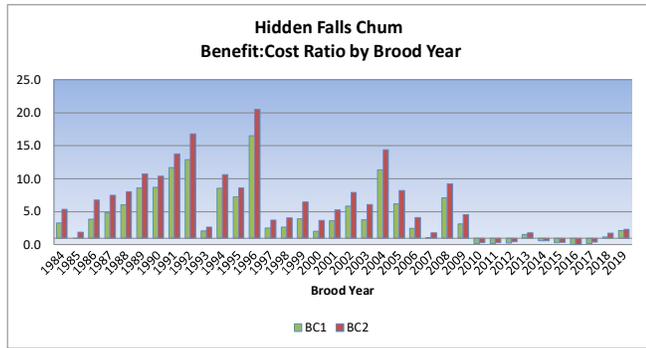


Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27.

Hidden Falls Chum Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
1984	30,080,000	273,967	0.91%	1985	\$240,640	\$794,070	\$494,152	\$1,288,223	3.3	5.4	F
1985	45,300,000	201,730	0.45%	1986	\$362,400	\$358,629	\$334,406	\$693,034	1.0	1.9	F
1986	40,390,000	620,857	1.54%	1987	\$323,120	\$1,251,970	\$937,675	\$2,189,645	3.9	6.8	F
1987	50,755,717	901,881	1.78%	1988	\$406,046	\$1,971,290	\$1,066,344	\$3,037,633	4.9	7.5	F
1988	60,300,600	1,494,332	2.48%	1989	\$683,227	\$4,133,913	\$1,346,094	\$5,480,007	6.1	8.0	F
1989	62,506,791	2,940,331	4.70%	1990	\$689,706	\$5,934,991	\$1,453,200	\$7,388,192	8.6	10.7	F
1990	64,275,400	2,812,054	4.38%	1991	\$627,140	\$5,449,808	\$1,053,285	\$6,503,093	8.7	10.4	F
1991	56,129,200	2,879,438	5.13%	1992	\$499,869	\$5,833,792	\$1,049,160	\$6,882,951	11.7	13.8	F
1992	62,442,900	4,596,885	7.36%	1993	\$487,684	\$6,288,410	\$1,909,974	\$8,198,384	12.9	16.8	F
1993	60,222,973	574,853	0.95%	1994	\$440,232	\$920,363	\$260,194	\$1,180,557	2.1	2.7	F
1994	70,889,750	3,125,145	4.41%	1995	\$510,400	\$4,351,303	\$1,085,313	\$5,436,615	8.5	10.7	F
1995	76,671,678	2,198,109	2.87%	1996	\$536,728	\$3,892,910	\$731,375	\$4,624,285	7.3	8.6	F
1996	62,565,996	3,777,135	6.04%	1997	\$533,065	\$8,786,003	\$2,138,832	\$10,924,835	16.5	20.5	F
1997	63,691,981	867,533	1.36%	1998	\$540,661	\$1,369,303	\$660,675	\$2,029,978	2.5	3.8	F
1998	74,650,314	1,276,322	1.71%	1999	\$563,686	\$1,510,553	\$775,315	\$2,285,869	2.7	4.1	F
1999	74,949,068	2,873,891	3.83%	2000	\$608,858	\$2,383,816	\$1,549,925	\$3,933,740	3.9	6.5	F
2000	80,844,732	1,337,415	1.65%	2001	\$624,497	\$1,259,908	\$1,032,246	\$2,292,153	2.0	3.7	F
2001	72,820,877	1,116,972	1.53%	2002	\$527,306	\$1,919,810	\$853,127	\$2,772,936	3.6	5.3	F
2002	75,415,683	1,803,004	2.39%	2003	\$624,233	\$3,644,964	\$1,306,191	\$4,951,155	5.8	7.9	F
2003	88,598,169	1,458,159	1.65%	2004	\$896,968	\$3,412,868	\$2,045,044	\$5,457,911	3.8	6.1	F
2004	88,800,300	2,614,584	2.94%	2005	\$844,275	\$9,610,807	\$2,524,836	\$12,135,643	11.4	14.4	F
2005	86,198,298	1,830,789	2.12%	2006	\$898,033	\$5,573,944	\$1,816,970	\$7,390,914	6.2	8.2	F
2006	88,301,824	714,090	0.81%	2007	\$982,032	\$2,448,028	\$1,585,149	\$4,033,177	2.5	4.1	F
2007	84,482,754	368,385	0.44%	2008	\$1,125,640	\$1,192,556	\$852,636	\$2,045,193	1.1	1.8	F
2008	81,597,511	1,938,582	2.38%	2009	\$1,073,681	\$7,636,587	\$2,249,795	\$9,886,381	7.1	9.2	F
2009	79,307,655	945,056	1.19%	2010	\$857,683	\$2,725,300	\$1,163,907	\$3,889,207	3.2	4.5	F
2010	76,438,022	109,784	0.14%	2011	\$1,025,929	\$184,840	\$146,449	\$331,289	0.2	0.3	F
2011	80,990,646	295,485	0.36%	2012	\$1,223,412	\$173,476	\$207,217	\$380,694	0.1	0.3	F
2012	74,521,716	287,150	0.39%	2013	\$1,106,342	\$267,707	\$263,939	\$531,645	0.2	0.5	F
2013	74,815,037	549,325	0.73%	2014	\$1,213,872	\$1,909,461	\$293,169	\$2,202,630	1.6	1.8	F
2014	73,605,540	158,555	0.22%	2015	\$1,198,546	\$731,308	\$25,623	\$756,931	0.6	0.6	F
2015	84,397,127	277,342	0.33%	2016	\$1,421,815	\$465,693	\$46,478	\$512,170	0.3	0.4	F
2016	64,602,663	133,312	0.21%	2017	\$963,640	\$32,867	\$10,813	\$43,681	0.0	0.1	F
2017	43,725,791	302,646	0.69%	2018	\$988,770	\$153,269	\$259,747	\$413,016	0.2	0.4	F
2018	47,623,744	551,608	1.16%	2019	\$1,008,358	\$1,212,638	\$558,380	\$1,771,018	1.2	1.8	F
2019	48,589,947	1,254,291	2.58%	2020	\$1,077,684	\$2,312,129	\$225,676	\$2,537,805	2.2	2.4	F
2020	48,895,105	1,106,299	2.26%	2021	\$977,802	\$1,881,510	\$376,154	\$2,257,663	1.9	2.3	I
2021	50,982,098	268,987	0.53%	2022	\$1,315,997	\$453,355	\$102,596	\$555,951	0.3	0.4	I
	<b>2,551,377,607</b>	<b>50,836,284</b>			<b>\$30,029,976</b>	<b>\$104,434,148</b>	<b>\$34,792,060</b>	<b>\$139,226,208</b>			

Status: F = Final ; I = Incomplete adult returns  
 Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
 BC2 = Total Value (commercial & cost recovery) / Project Cost.  
 This chart shows ratios for brood years with complete adult returns.

Cumulative Benefit: Cost Ratio currently is 3.8:1 for BC1 and 5.1:1 for BC2.



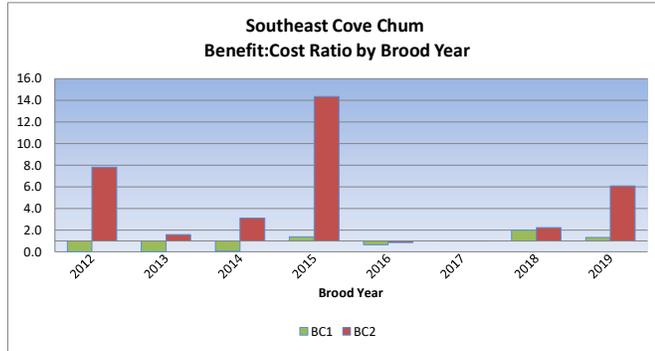
Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27. Commercial and cost recovery value has been adjusted for the Hidden Falls Assessment Tax for return years 2012-16.

### Southeast Cove Chum Benefit:Cost Ratio

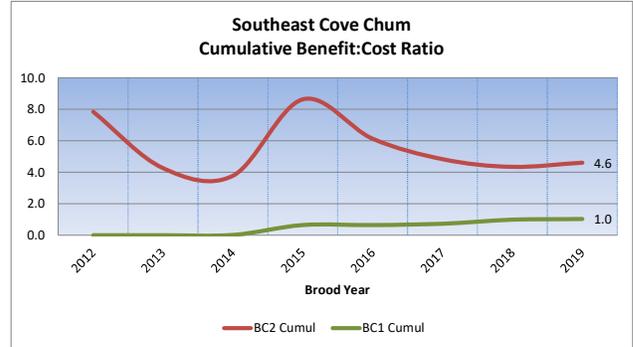
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
2012	8,712,136	188,430	2.16%	2013	\$125,392	\$0	\$981,361	\$981,361	0.0	7.8	F
2013	9,142,373	32,412	0.35%	2014	\$168,206	\$150	\$267,112	\$267,262	0.0	1.6	F
2014	17,478,583	79,444	0.45%	2015	\$208,528	\$7,583	\$643,305	\$650,888	0.0	3.1	F
2015	42,758,270	1,107,287	2.59%	2016	\$425,521	\$581,942	\$5,522,713	\$6,104,654	1.4	14.4	F
2016	46,749,525	92,404	0.20%	2017	\$442,333	\$280,390	\$97,058	\$377,448	0.6	0.9	F
2017	43,109,082	72,426	0.17%	2018	\$462,897	\$467,770	\$1,887	\$469,656	1.0	1.0	F
2018	36,644,291	148,880	0.41%	2019	\$434,869	\$875,551	\$95,293	\$970,843	2.0	2.2	F
2019	40,951,776	482,278	1.18%	2020	\$422,406	\$556,681	\$2,011,090	\$2,567,772	1.3	6.1	F
2020	35,357,207	243,072	0.69%	2021	\$417,768	\$397,483	\$337,729	\$735,212	1.0	1.8	I
2021	36,087,907	102,603	0.28%	2022	\$488,219	\$179,925	\$111,338	\$291,263	0.4	0.6	I
	<b>316,991,150</b>	<b>2,549,235</b>			<b>\$3,596,139</b>	<b>\$3,347,475</b>	<b>\$10,068,885</b>	<b>\$13,416,359</b>			

Status: F = Final ; I = Incomplete adult returns

Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 1.0:1 for BC1 and 4.6:1 for BC2.

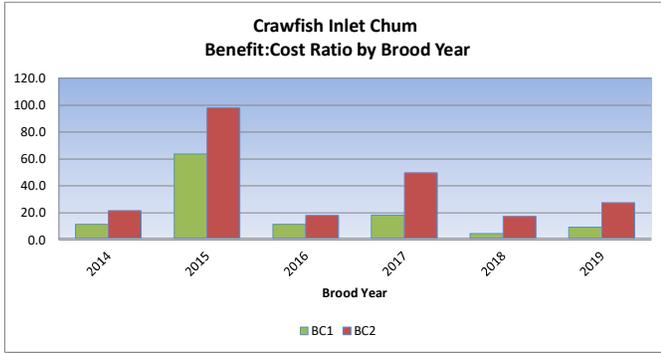


Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27.

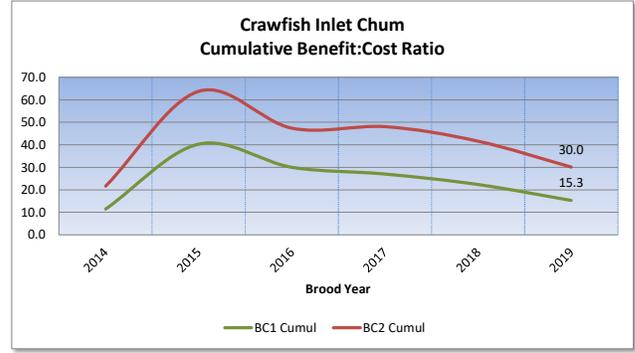
## Crawfish Inlet Chum Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
2014	13,370,294	727,171	5.44%	2015	\$238,685	\$2,729,534	\$2,414,281	\$5,143,815	11.4	21.6	F
2015	27,794,243	4,614,496	16.60%	2016	\$293,232	\$18,716,269	\$10,076,042	\$28,792,311	63.8	98.2	F
2016	23,042,232	1,174,924	5.10%	2017	\$298,273	\$3,454,907	\$1,927,576	\$5,382,482	11.6	18.1	F
2017	27,319,517	2,072,097	7.58%	2018	\$294,982	\$5,462,656	\$9,227,447	\$14,690,103	18.5	49.8	F
2018	15,205,614	484,050	3.18%	2019	\$296,227	\$1,338,021	\$3,802,432	\$5,140,453	4.5	17.4	F
2019	26,506,045	1,663,899	6.28%	2020	\$308,397	\$2,923,729	\$5,605,086	\$8,528,815	9.5	27.7	F
2020	25,886,003	1,218,063	4.71%	2021	\$303,093	\$1,651,538	\$1,938,176	\$3,589,714	5.5	11.8	I
2021	23,858,727	79,102	0.33%	2022	\$346,383	\$98,525	\$118,582	\$217,107	0.3	0.6	I
	<b>182,982,675</b>	<b>12,033,801</b>			<b>\$2,379,272</b>	<b>\$36,375,179</b>	<b>\$35,109,622</b>	<b>\$71,484,801</b>			

Status: F = Final ; I = Incomplete adult returns  
 Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
 BC2 = Total Value (commercial & cost recovery) / Project Cost.  
 This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 15.3:1 for BC1 and 30.0:1 for BC2.



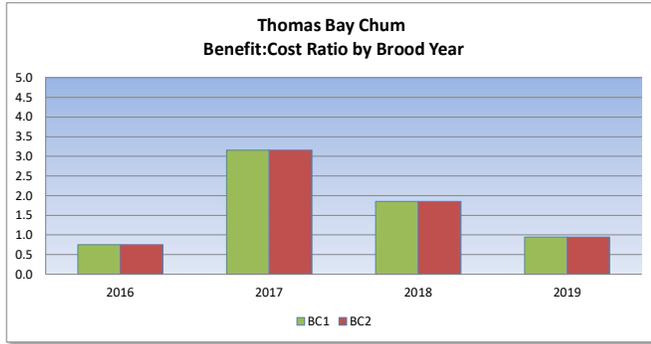
Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27.

## Thomas Bay Chum Benefit:Cost Ratio

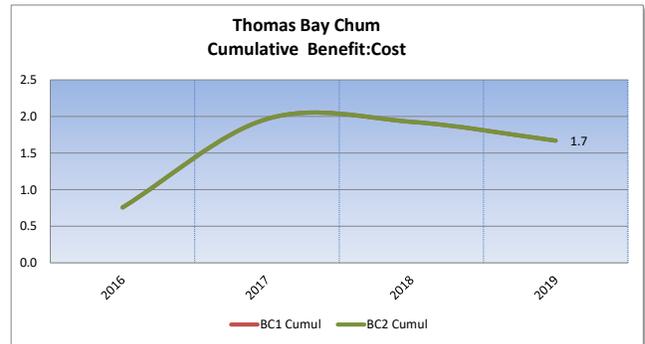
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
2016	21,899,063	50,325	0.23%	2017	\$250,000	\$188,832	\$0	\$188,832	0.8	0.8	F
2017	22,255,897	116,986	0.53%	2018	\$253,679	\$801,360	\$0	\$801,360	3.2	3.2	F
2018	15,350,544	77,013	0.50%	2019	\$266,616	\$494,529	\$0	\$494,529	1.9	1.9	F
2019	21,398,311	84,812	0.40%	2020	\$277,603	\$262,911	\$0	\$262,911	1.0	1.0	F
2020	11,691,221	503,181	4.30%	2021	\$286,236	\$1,344,426	\$0	\$1,344,426	4.7	4.7	I
2021	14,846,799	9,693	0.07%	2022	\$339,731	\$25,699	\$0	\$25,699	0.1	0.1	I
	<b>107,441,835</b>	<b>842,011</b>			<b>\$1,673,865</b>	<b>\$3,117,757</b>	<b>\$0</b>	<b>\$3,117,757</b>			

Status: F = Final ; I = Incomplete adult returns

Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 1.7:1 for BC1 and BC2.



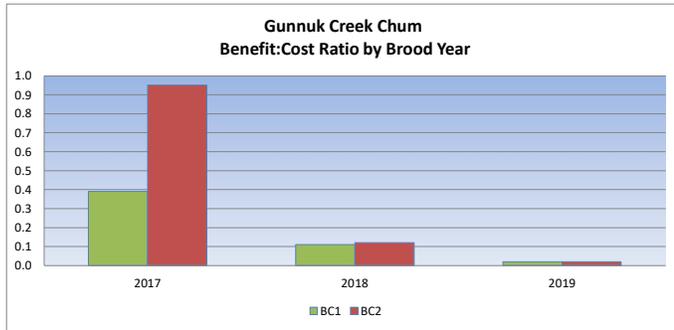
Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27.

## Gunnuk Creek Chum Benefit:Cost Ratio

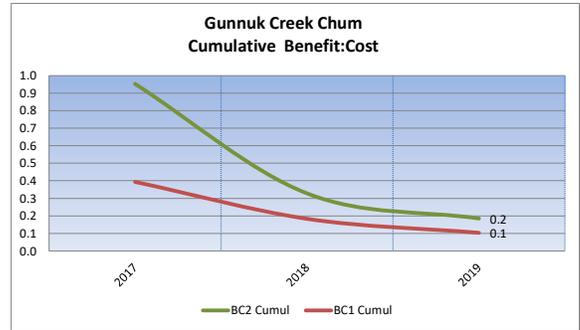
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Status
2017	8,866,586	50,937	0.57%	2018	\$108,000	\$42,638	\$60,164	\$102,802	0.4	1.0	F
2018	15,857,078	24,580	0.16%	2019	\$328,857	\$37,510	\$3,041	\$40,551	0.1	0.1	F
2019	18,426,597	15,723	0.09%	2020	\$386,268	\$5,801	\$3,531	\$9,332	0.0	0.0	F
2020	17,566,539	76,804	0.44%	2021	\$159,854	\$27,938	\$91,032	\$118,969	0.2	0.7	I
2021	16,747,099	770	0.00%	2022	\$550,111	\$326	\$1,257	\$1,584	0.0	0.0	I
	<b>77,463,899</b>	<b>168,814</b>			<b>\$1,533,090</b>	<b>\$114,213</b>	<b>\$159,024</b>	<b>\$273,238</b>			

Status: F = Final ; I = Incomplete adult returns

Note: BY2019 may have a small number of 6-year-old fish returning in 2025.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 0.1:1 for BC1 and 0.2:1 for BC2.

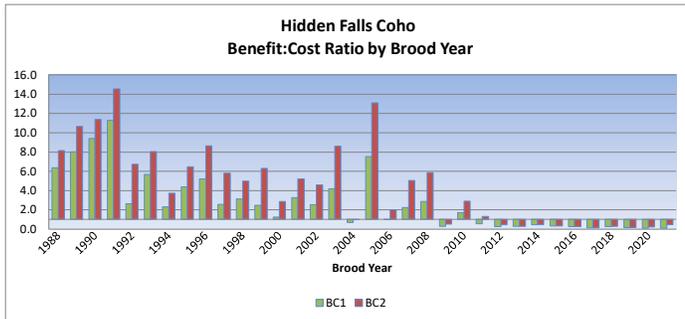


Total cost estimate in this chart is through BY21. Benefit for this period is incomplete, with further adult returns (BY19-21) in 2025-27.

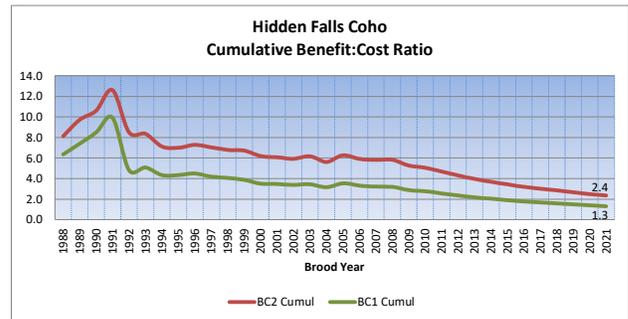
### Hidden Falls Coho Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
1988	62,595	10,153	16.22%	1990	\$6,787	\$43,090	\$12,149	\$55,239	6.4	8.1	0	F
1989	64,155	18,661	29.09%	1991	\$11,530	\$92,591	\$30,367	\$122,957	8.0	10.7	200	F
1990	168,862	33,166	19.64%	1992	\$21,476	\$201,855	\$42,285	\$244,140	9.4	11.4	337	F
1991	404,069	92,400	22.87%	1993	\$42,082	\$475,580	\$136,254	\$611,833	11.3	14.5	1,831	F
1992	1,651,071	233,650	14.15%	1994	\$191,253	\$500,579	\$785,447	\$1,286,026	2.6	6.7	1,500	F
1993	1,458,657	192,045	13.17%	1995	\$127,307	\$722,254	\$304,012	\$1,026,266	5.7	8.1	3,797	F
1994	1,554,122	98,199	6.32%	1996	\$145,197	\$333,272	\$207,134	\$540,406	2.3	3.7	5,528	F
1995	1,501,428	177,425	11.82%	1997	\$132,415	\$577,757	\$276,702	\$854,459	4.4	6.5	3,750	F
1996	1,489,644	251,096	16.86%	1998	\$143,884	\$746,190	\$497,038	\$1,243,228	5.2	8.6	3,406	F
1997	1,657,809	170,082	10.26%	1999	\$152,601	\$391,110	\$493,464	\$884,573	2.6	5.8	3,473	F
1998	1,599,069	195,359	12.22%	2000	\$135,903	\$425,999	\$250,638	\$676,637	3.1	5.0	5,594	F
1999	1,758,775	412,992	23.48%	2001	\$154,172	\$380,515	\$589,919	\$970,434	2.5	6.3	3,470	F
2000	1,954,204	201,652	10.32%	2002	\$205,399	\$253,411	\$330,875	\$584,286	1.2	2.8	3,190	F
2001	2,023,849	206,819	10.22%	2003	\$190,227	\$621,754	\$367,541	\$989,295	3.3	5.2	5,186	F
2002	2,251,020	194,657	8.65%	2004	\$190,659	\$484,105	\$389,263	\$873,368	2.5	4.6	6,577	F
2003	2,199,914	226,205	10.28%	2005	\$201,648	\$840,717	\$893,501	\$1,734,218	4.2	8.6	4,637	F
2004	2,802,729	53,703	1.92%	2006	\$252,225	\$174,527	\$73,323	\$247,850	0.7	1.0	1,983	F
2005	2,487,823	243,544	9.79%	2007	\$221,503	\$1,665,659	\$1,235,024	\$2,900,683	7.5	13.1	4,058	F
2006	2,274,731	109,749	4.82%	2008	\$232,346	\$225,365	\$237,248	\$462,614	1.0	2.0	2,777	F
2007	2,797,375	194,902	6.97%	2009	\$306,491	\$688,869	\$852,413	\$1,541,283	2.3	5.0	4,693	F
2008	2,560,498	245,679	9.59%	2010	\$278,903	\$791,713	\$848,296	\$1,640,009	2.8	5.9	4,993	F
2009	3,185,142	38,415	1.21%	2011	\$396,700	\$113,682	\$98,132	\$211,814	0.3	0.5	2,500	F
2010	2,569,138	124,923	4.86%	2012	\$361,269	\$621,089	\$423,811	\$1,044,899	1.7	2.9	2,779	F
2011	3,136,431	81,465	2.60%	2013	\$445,613	\$249,542	\$343,302	\$592,844	0.6	1.3	1,683	F
2012	3,119,963	56,323	1.81%	2014	\$447,130	\$105,914	\$102,042	\$207,956	0.2	0.5	889	F
2013	3,236,886	30,505	0.94%	2015	\$478,018	\$133,749	\$2,569	\$136,318	0.3	0.3	871	F
2014	3,321,349	38,261	1.15%	2016	\$446,634	\$203,973	\$6,451	\$210,424	0.5	0.5	1,377	F
2015	3,176,580	28,867	0.91%	2017	\$498,177	\$149,726	\$0	\$149,726	0.3	0.3	1,569	F
2016	2,790,687	37,538	1.35%	2018	\$522,826	\$133,070	\$0	\$133,070	0.3	0.3	3,411	F
2017	2,265,343	29,561	1.30%	2019	\$417,022	\$46,664	\$0	\$46,664	0.1	0.1	623	F
2018	3,101,589	38,925	1.26%	2020	\$509,948	\$123,290	\$25,697	\$148,988	0.2	0.3	469	F
2019	3,413,179	46,639	1.37%	2021	\$572,011	\$89,282	\$70	\$89,352	0.2	0.2	3,738	F
2020	3,375,361	42,571	1.26%	2022	\$632,752	\$55,562	\$89,373	\$144,935	0.1	0.2	602	F
2021	2,964,242	54,870	1.85%	2023	\$646,553	\$50,879	\$238,640	\$289,519	0.1	0.5	224	F
<b>74,378,289</b>	<b>4,211,001</b>				<b>\$9,718,660</b>	<b>\$12,713,332</b>	<b>\$10,182,979</b>	<b>\$22,896,311</b>			<b>91,715</b>	

Status: F = Final ; I = Incomplete adult returns



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 1.3:1 for BC1 and 2.4:1 for BC2.

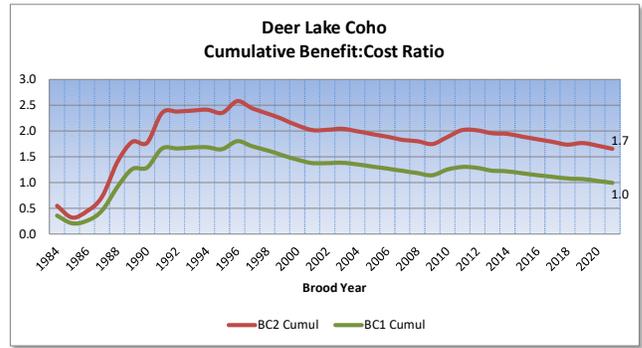
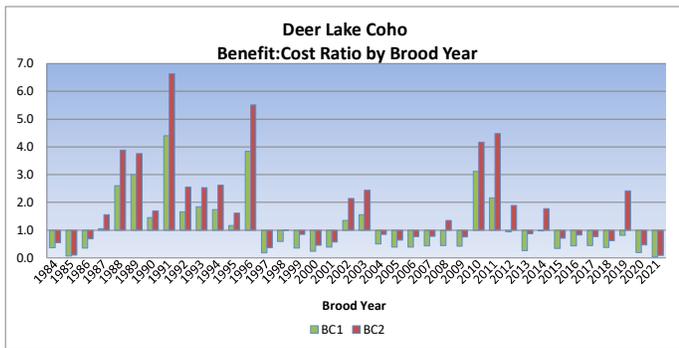


Total cost estimate in this chart is through BY21.

Deer Lake Coho Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
1984	317,201	20,300	6.40%	1986	\$300,000	\$108,127	\$56,854	\$164,981	0.4	0.6	129	F
1985	-	-	0.00%	1987	\$300,000	\$17,085	\$11,770	\$28,855	0.1	0.1	10	F
1986	370,485	26,700	7.21%	1988	\$300,000	\$106,118	\$98,150	\$204,268	0.4	0.7	146	F
1987	306,032	53,400	17.45%	1989	\$300,000	\$315,426	\$152,073	\$467,498	1.1	1.6	272	F
1988	680,000	165,700	24.37%	1990	\$315,000	\$818,775	\$406,902	\$1,225,677	2.6	3.9	950	F
1989	737,115	143,650	19.49%	1991	\$312,637	\$937,102	\$239,117	\$1,176,219	3.0	3.8	1,130	F
1990	591,835	100,000	16.90%	1992	\$339,851	\$495,432	\$79,885	\$575,317	1.5	1.7	880	F
1991	1,031,536	245,100	23.76%	1993	\$292,392	\$1,286,254	\$655,469	\$1,941,723	4.4	6.6	1,206	F
1992	1,131,975	154,000	13.60%	1994	\$329,168	\$545,039	\$296,169	\$841,208	1.7	2.6	1,253	F
1993	1,490,772	168,475	11.30%	1995	\$333,024	\$611,600	\$229,306	\$840,905	1.8	2.5	1,525	F
1994	1,665,000	99,640	5.98%	1996	\$287,952	\$501,503	\$253,184	\$754,688	1.7	2.6	1,176	F
1995	1,812,000	95,368	5.26%	1997	\$285,726	\$334,456	\$129,069	\$463,525	1.2	1.6	912	F
1996	1,709,000	287,280	16.81%	1998	\$283,980	\$1,091,202	\$475,630	\$1,566,831	3.8	5.5	5,877	F
1997	1,518,000	78,764	5.19%	1999	\$264,861	\$48,884	\$45,255	\$94,139	0.2	0.4	772	F
1998	408,600	131,151	32.10%	2000	\$313,736	\$189,773	\$127,831	\$317,603	0.6	1.0	2,873	F
1999	-	-	0.00%	2001	\$356,410	\$123,220	\$178,403	\$301,623	0.4	0.9	2,253	F
2000	951,300	84,122	8.84%	2002	\$368,837	\$87,404	\$81,642	\$169,046	0.2	0.5	1,767	F
2001	-	-	0.00%	2003	\$341,429	\$131,957	\$62,839	\$194,796	0.4	0.6	500	F
2002	1,031,681	134,864	13.07%	2004	\$295,736	\$399,102	\$234,967	\$634,069	1.4	2.1	2,078	F
2003	693,827	94,421	13.61%	2005	\$310,585	\$480,930	\$276,891	\$757,821	1.6	2.4	1,829	F
2004	264,290	27,198	10.29%	2006	\$249,784	\$124,011	\$87,138	\$211,150	0.5	0.9	1,098	F
2005	533,248	18,468	3.46%	2007	\$289,368	\$113,600	\$71,109	\$184,709	0.4	0.6	1,000	F
2006	675,462	50,883	7.53%	2008	\$315,054	\$122,094	\$121,777	\$243,872	0.4	0.8	1,107	F
2007	851,141	42,481	4.99%	2009	\$392,444	\$169,467	\$135,110	\$304,577	0.4	0.8	1,972	F
2008	1,063,381	81,506	7.66%	2010	\$434,518	\$195,441	\$391,268	\$586,709	0.5	1.4	2,123	F
2009	660,000	42,567	6.45%	2011	\$443,742	\$186,573	\$152,570	\$339,143	0.4	0.8	3,461	F
2010	1,711,170	246,766	14.42%	2012	\$497,936	\$1,554,930	\$520,004	\$2,074,934	3.1	4.2	6,841	F
2011	2,314,224	239,417	10.35%	2013	\$484,560	\$1,046,322	\$1,126,590	\$2,172,912	2.2	4.5	7,482	F
2012	2,364,473	143,149	6.05%	2014	\$494,404	\$464,227	\$468,378	\$932,605	0.9	1.9	2,636	F
2013	2,495,732	56,885	2.28%	2015	\$522,924	\$135,302	\$321,635	\$456,937	0.3	0.9	2,816	F
2014	2,427,271	125,719	5.18%	2016	\$566,837	\$550,707	\$458,670	\$1,009,377	1.0	1.8	5,023	F
2015	2,557,538	42,441	1.66%	2017	\$542,581	\$185,099	\$199,144	\$384,243	0.3	0.7	4,520	F
2016	2,379,970	50,224	2.11%	2018	\$535,094	\$235,926	\$202,037	\$437,962	0.4	0.8	4,352	F
2017	2,102,566	63,164	3.00%	2019	\$579,308	\$258,808	\$187,817	\$446,624	0.5	0.8	3,583	F
2018	2,073,028	42,031	2.03%	2020	\$598,340	\$225,572	\$145,005	\$370,577	0.4	0.6	2,580	F
2019	2,001,846	141,344	7.06%	2021	\$584,409	\$472,906	\$941,408	\$1,414,314	0.8	2.4	5,821	F
2020	1,413,417	31,828	2.25%	2022	\$572,345	\$108,653	\$159,415	\$268,067	0.2	0.5	914	F
2021	1,261,409	15,023	1.19%	2023	\$577,580	\$20,130	\$32,621	\$52,751	0.0	0.1	1,647	F
<b>45,596,525</b>	<b>3,544,029</b>				<b>\$14,912,552</b>	<b>\$14,799,157</b>	<b>\$9,813,100</b>	<b>\$24,612,256</b>			<b>86,514</b>	

Status: F = Final ; I = Incomplete adult returns



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.

Cumulative Benefit: Cost Ratio currently is 1.0:1 for BC1 and 1.7:1 for BC2.

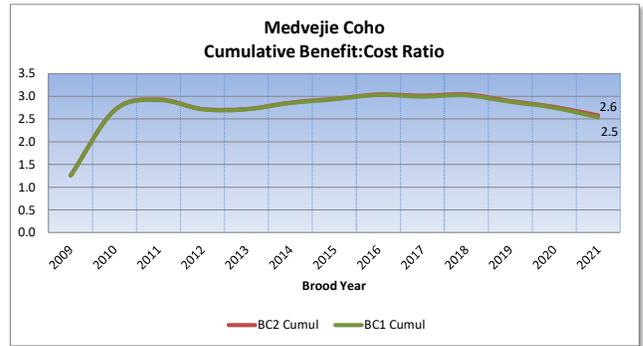
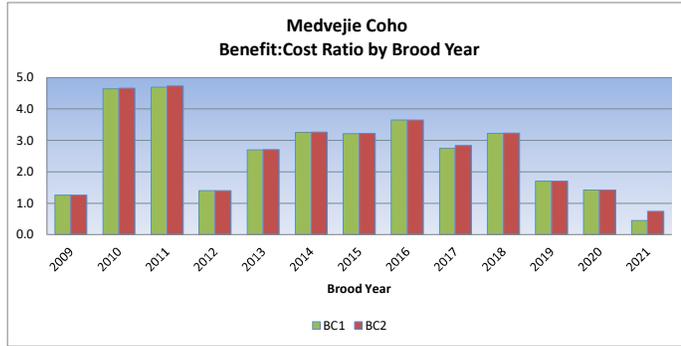


Total cost estimate in this chart is through BY21.

## Medvejie Coho Benefit:Cost Ratio

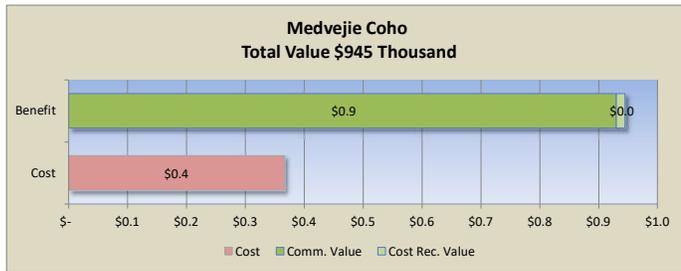
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
2009	217,546	6,188	2.84%	2011	\$37,824	\$47,514	\$172	\$47,686	1.3	1.3	505	F
2010	166,551	19,054	11.44%	2012	\$27,803	\$129,060	\$395	\$129,455	4.6	4.7	2,185	F
2011	53,026	5,182	9.77%	2013	\$8,333	\$39,115	\$306	\$39,420	4.7	4.7	391	F
2012	72,114	4,124	5.72%	2014	\$11,548	\$16,144	\$0	\$16,144	1.4	1.4	281	F
2013	77,769	4,858	6.25%	2015	\$14,378	\$38,860	\$65	\$38,926	2.7	2.7	306	F
2014	205,176	21,228	10.35%	2016	\$36,455	\$118,305	\$443	\$118,748	3.3	3.3	1,880	F
2015	201,398	14,664	7.28%	2017	\$39,524	\$127,016	\$419	\$127,435	3.2	3.2	1,670	F
2016	205,346	11,528	5.61%	2018	\$27,652	\$100,861	\$173	\$101,034	3.7	3.7	692	F
2017	204,243	11,755	5.76%	2019	\$33,003	\$90,874	\$2,734	\$93,608	2.8	2.8	1,019	F
2018	214,017	12,395	5.79%	2020	\$34,196	\$110,156	\$357	\$110,514	3.2	3.2	1,661	F
2019	207,475	11,796	5.69%	2021	\$32,399	\$55,113	\$0	\$55,113	1.7	1.7	1,452	F
2020	199,977	8,713	4.36%	2022	\$29,305	\$41,593	\$35	\$41,628	1.4	1.4	1,347	F
2021	199,477	5,742	2.88%	2023	\$34,000	\$15,368	\$9,797	\$25,165	0.5	0.7	898	F
<b>2,224,115</b>	<b>137,227</b>				<b>\$366,419</b>	<b>\$929,979</b>	<b>\$14,896</b>	<b>\$944,875</b>			<b>14,287</b>	

Status: F = Final ; I = Incomplete adult returns  
 BY 2009-10 includes Deep Inlet and Bear Cove releases. BY 2011-on = Bear Cove releases.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
 BC2 = Total Value (commercial & cost recovery) / Project Cost.  
 This chart shows ratios for brood years with complete adult returns.

Cumulative Benefit: Cost Ratio currently is 2.5:1 for BC1 and 2.6:1 for BC2.

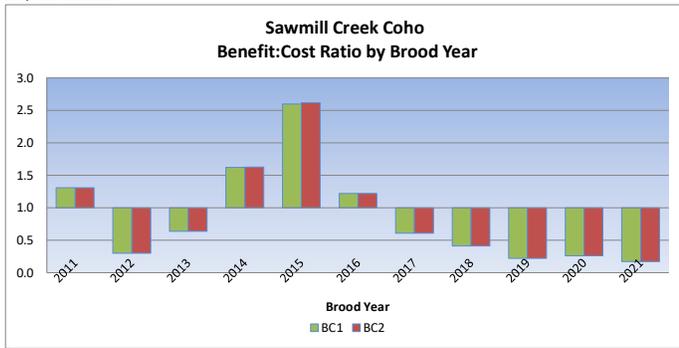


Total cost estimate in this chart is through BY21.

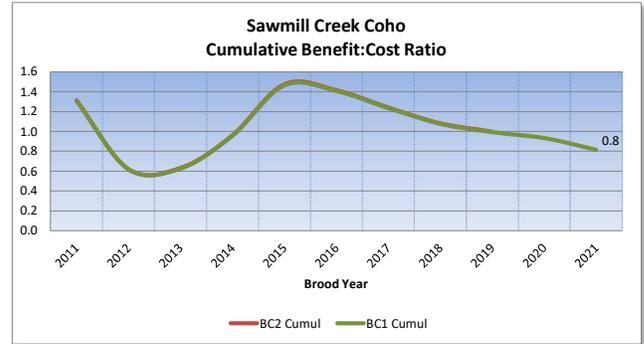
## Sawmill Creek Coho Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
2011	158,968	12,671	7.97%	2013	\$86,933	\$113,769	\$44	\$113,813	1.3	1.3	921	F
2012	296,449	10,682	3.60%	2014	\$187,077	\$55,975	\$0	\$55,975	0.3	0.3	702	F
2013	949,412	16,158	1.70%	2015	\$209,437	\$133,256	\$1,751	\$135,007	0.6	0.6	857	F
2014	673,516	50,937	7.56%	2016	\$241,053	\$390,586	\$2,170	\$392,756	1.6	1.6	3,973	F
2015	907,708	88,080	9.70%	2017	\$325,238	\$845,106	\$5,543	\$850,649	2.6	2.6	6,243	F
2016	1,096,961	39,108	3.57%	2018	\$324,723	\$396,040	\$0	\$396,040	1.2	1.2	1,159	F
2017	1,828,650	22,175	1.21%	2019	\$384,136	\$234,541	\$954	\$235,495	0.6	0.6	1,739	F
2018	1,660,849	14,880	0.90%	2020	\$415,007	\$171,276	\$0	\$171,276	0.4	0.4	1,617	F
2019	1,766,291	10,469	0.59%	2021	\$236,631	\$52,675	\$0	\$52,675	0.2	0.2	862	F
2020	1,649,843	8,837	0.54%	2022	\$215,625	\$56,561	\$0	\$56,561	0.3	0.3	2,011	F
2021	1,568,497	13,886	0.89%	2023	\$476,298	\$79,003	\$0	\$79,003	0.2	0.2	2,518	F
<b>2021</b>	<b>12,557,144</b>	<b>287,883</b>			<b>\$3,102,158</b>	<b>\$2,528,787</b>	<b>\$10,461</b>	<b>\$2,539,249</b>			<b>22,602</b>	

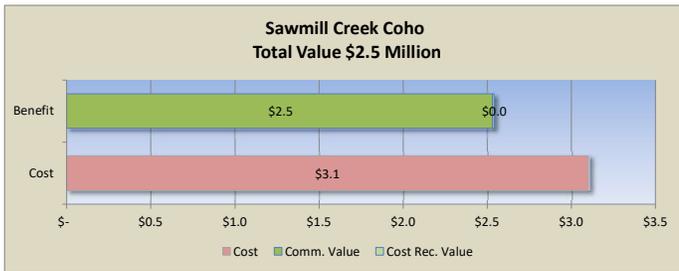
Status: F = Final ; I = Incomplete adult returns  
Deep Inlet releases.



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 0.8:1 for BC1 and BC2.

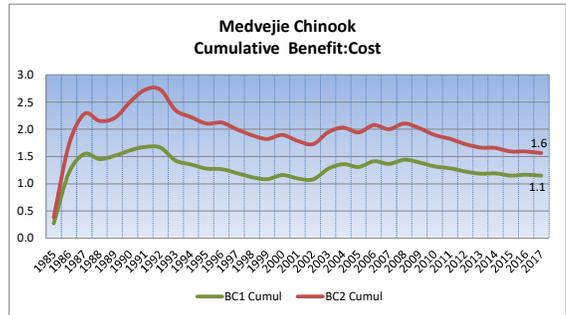
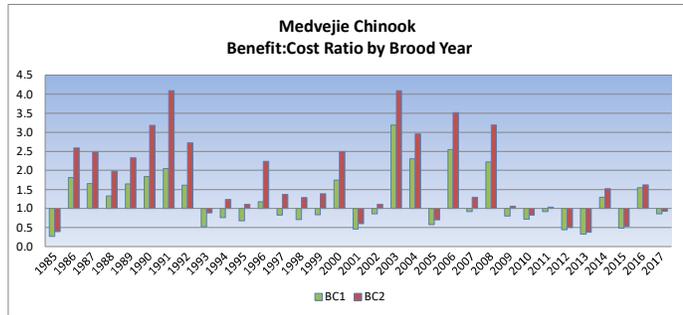


Total cost estimate in this chart is through BY21.

Medvejie Chinook Benefit:Cost Ratio

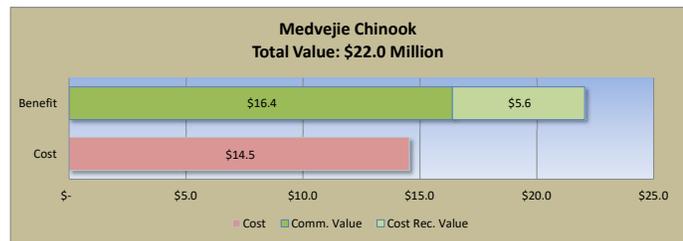
Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
1985	227,536	1,690	0.74%	1987	\$21,529	\$5,875	\$2,432	\$8,307	0.3	0.4	342	F
1986	174,577	6,248	3.58%	1988	\$33,062	\$59,978	\$25,768	\$85,746	1.8	2.6	560	F
1987	743,511	19,101	2.57%	1989	\$154,513	\$257,230	\$125,243	\$382,473	1.7	2.5	1,387	F
1988	920,995	17,101	1.86%	1990	\$152,222	\$201,872	\$99,700	\$301,572	1.3	2.0	1,246	F
1989	866,839	22,268	2.57%	1991	\$163,582	\$269,995	\$111,262	\$381,257	1.7	2.3	2,228	F
1990	1,144,688	40,201	3.51%	1992	\$220,606	\$406,243	\$295,356	\$701,599	1.8	3.2	5,579	F
1991	762,369	32,033	4.20%	1993	\$126,857	\$259,560	\$258,662	\$518,222	2.1	4.1	3,676	F
1992	1,083,432	37,319	3.44%	1994	\$207,020	\$332,507	\$231,246	\$563,753	1.6	2.7	2,599	F
1993	1,130,236	20,495	1.81%	1995	\$281,420	\$145,791	\$104,166	\$249,957	0.5	0.9	1,389	F
1994	1,004,878	16,899	1.68%	1996	\$169,413	\$129,473	\$80,086	\$209,559	0.8	1.2	2,316	F
1995	1,052,995	15,503	1.47%	1997	\$184,273	\$125,015	\$79,253	\$204,268	0.7	1.1	1,573	F
1996	1,119,512	37,830	3.38%	1998	\$242,699	\$286,643	\$257,726	\$544,369	1.2	2.2	2,119	F
1997	1,596,867	43,263	2.71%	1999	\$370,138	\$306,459	\$201,857	\$508,316	0.8	1.4	2,492	F
1998	2,043,105	52,262	2.56%	2000	\$435,347	\$309,146	\$251,503	\$560,649	0.7	1.3	2,871	F
1999	1,872,609	38,086	2.03%	2001	\$432,229	\$361,586	\$241,355	\$602,941	0.8	1.4	1,767	F
2000	1,953,356	52,514	2.69%	2002	\$406,654	\$712,787	\$298,766	\$1,011,553	1.8	2.5	2,697	F
2001	1,502,186	7,965	0.53%	2003	\$335,990	\$154,835	\$47,962	\$202,796	0.5	0.6	379	F
2002	1,929,602	14,661	0.76%	2004	\$391,083	\$335,040	\$99,827	\$434,867	0.9	1.1	1,473	F
2003	1,538,388	41,067	2.67%	2005	\$441,891	\$1,409,952	\$395,455	\$1,805,406	3.2	4.1	1,936	F
2004	1,790,477	26,877	1.50%	2006	\$422,765	\$976,309	\$274,015	\$1,250,324	2.3	3.0	1,073	F
2005	1,491,455	6,912	0.46%	2007	\$355,737	\$205,858	\$44,517	\$250,375	0.6	0.7	495	F
2006	2,103,213	46,346	2.20%	2008	\$505,987	\$1,288,587	\$490,847	\$1,779,434	2.6	3.5	2,134	F
2007	2,128,272	20,910	0.98%	2009	\$639,134	\$591,025	\$236,660	\$827,685	0.9	1.3	1,062	F
2008	1,837,901	46,999	2.56%	2010	\$649,005	\$1,443,012	\$625,690	\$2,068,702	2.2	3.2	2,277	F
2009	1,696,344	15,927	0.94%	2011	\$642,773	\$511,661	\$171,720	\$683,381	0.8	1.1	874	F
2010	2,906,139	21,432	0.74%	2012	\$942,403	\$681,078	\$100,664	\$781,742	0.7	0.8	1,417	F
2011	2,602,453	23,627	0.91%	2013	\$810,196	\$745,150	\$93,913	\$839,063	0.9	1.0	1,710	F
2012	2,158,501	9,999	0.46%	2014	\$747,946	\$337,227	\$38,019	\$375,247	0.5	0.5	686	F
2013	1,369,006	5,329	0.39%	2015	\$526,151	\$175,950	\$23,104	\$199,054	0.3	0.4	387	F
2014	2,383,535	34,579	1.45%	2016	\$845,712	\$1,100,021	\$181,382	\$1,281,402	1.3	1.5	1,556	F
2015	1,998,042	12,002	0.60%	2017	\$719,062	\$349,292	\$37,215	\$386,507	0.5	0.5	284	F
2016	1,599,410	17,497	1.09%	2018	\$390,489	\$603,760	\$27,134	\$630,894	1.6	1.6	1,348	F
2017	1,897,715	11,252	0.59%	2019	\$592,299	\$511,243	\$37,250	\$548,493	0.9	0.9	2,094	F
2018	1,678,481	10,742	0.64%	2020	\$378,237	\$359,402	\$38,098	\$397,500	1.0	1.1	294	I
2019	2,241,566	9,335	0.42%	2021	\$602,174	\$446,377	\$19,467	\$465,844	0.7	0.8	1,770	I
	<b>54,550,191</b>	<b>836,272</b>			<b>\$14,540,598</b>	<b>\$16,395,937</b>	<b>\$5,647,318</b>	<b>\$22,043,255</b>			<b>58,087</b>	

Status: F = Final ; I = Incomplete adult returns



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
BC2 = Total Value (commercial & cost recovery) / Project Cost.  
This chart shows ratios for brood years with complete adult returns.

Cumulative Benefit: Cost Ratio currently is 1.1:1 for BC1 and 1.6:1 for BC2.

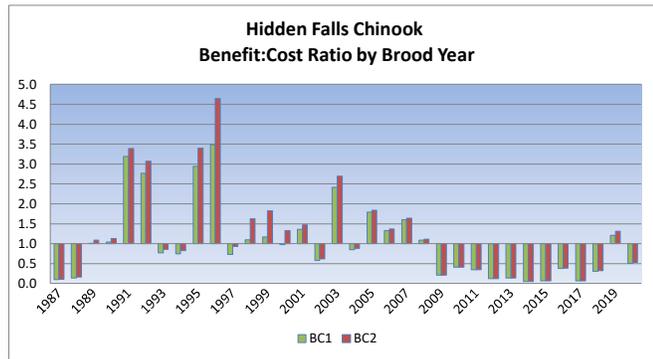


Total cost estimate in this chart is through BY19. Benefit for this period is incomplete, with further adult returns (BY18-19) in 2025-26.

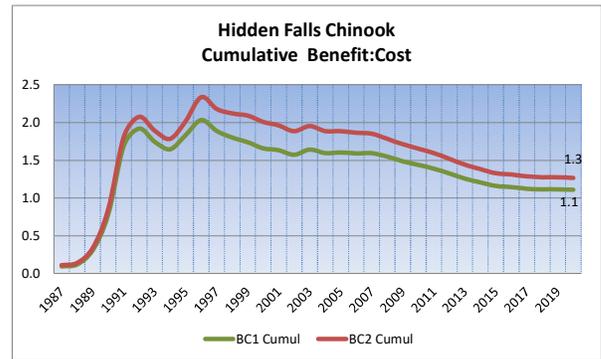
## Hidden Falls Chinook Benefit:Cost Ratio

Year Brood	Release	Adults	MS	Fiscal Year	Cost	CommValue	CRValue	TotalValue	BC1	BC2	Sport	Status
1987	337,900	3,096	0.92%	1989	\$52,368	\$4,979	\$907	\$5,885	0.1	0.1	107	F
1988	349,443	1,392	0.40%	1990	\$60,158	\$8,682	\$1,094	\$9,776	0.1	0.2	153	F
1989	184,129	3,734	2.03%	1991	\$30,158	\$30,455	\$2,268	\$32,723	1.0	1.1	238	F
1990	1,584,244	27,517	1.74%	1992	\$252,808	\$262,758	\$23,305	\$286,063	1.0	1.1	1,593	F
1991	1,811,371	53,084	2.93%	1993	\$240,711	\$767,136	\$48,484	\$815,619	3.2	3.4	2,464	F
1992	1,091,827	28,929	2.65%	1994	\$173,000	\$479,904	\$50,717	\$530,621	2.8	3.1	472	F
1993	923,506	9,981	1.08%	1995	\$143,087	\$110,602	\$11,894	\$122,496	0.8	0.9	463	F
1994	888,538	8,160	0.92%	1996	\$108,033	\$81,023	\$8,167	\$89,190	0.8	0.8	451	F
1995	944,457	42,631	4.51%	1997	\$181,076	\$531,827	\$84,119	\$615,946	2.9	3.4	1,743	F
1996	1,070,885	48,496	4.53%	1998	\$169,790	\$590,670	\$197,637	\$788,307	3.5	4.6	1,046	F
1997	1,104,403	15,285	1.38%	1999	\$175,749	\$128,882	\$35,015	\$163,897	0.7	0.9	114	F
1998	1,232,716	33,906	2.75%	2000	\$197,343	\$216,737	\$105,708	\$322,445	1.1	1.6	991	F
1999	1,214,625	23,581	1.94%	2001	\$188,429	\$219,635	\$123,015	\$342,649	1.2	1.8	872	F
2000	1,145,835	19,957	1.74%	2002	\$237,043	\$233,174	\$82,410	\$315,584	1.0	1.3	457	F
2001	1,248,290	14,671	1.18%	2003	\$212,695	\$290,271	\$22,189	\$312,460	1.4	1.5	827	F
2002	922,407	3,969	0.43%	2004	\$146,624	\$84,592	\$5,765	\$90,358	0.6	0.6	306	F
2003	1,249,354	18,708	1.50%	2005	\$231,335	\$560,956	\$60,637	\$621,593	2.4	2.7	784	F
2004	1,052,892	4,807	0.46%	2006	\$179,805	\$152,655	\$6,351	\$159,006	0.9	0.9	184	F
2005	604,149	7,245	1.20%	2007	\$130,867	\$234,008	\$7,206	\$241,215	1.8	1.8	518	F
2006	498,136	6,160	1.24%	2008	\$126,160	\$167,687	\$4,775	\$172,462	1.3	1.4	195	F
2007	908,118	11,821	1.30%	2009	\$212,026	\$339,427	\$8,130	\$347,557	1.6	1.6	437	F
2008	939,962	10,546	1.12%	2010	\$341,202	\$372,953	\$5,234	\$378,188	1.1	1.1	577	F
2009	598,284	1,071	0.18%	2011	\$184,022	\$38,703	\$214	\$38,917	0.2	0.2	13	F
2010	480,642	2,477	0.52%	2012	\$180,246	\$73,071	\$1	\$73,073	0.4	0.4	251	F
2011	518,277	2,459	0.47%	2013	\$199,439	\$69,550	\$41	\$69,591	0.4	0.4	240	F
2012	558,227	872	0.16%	2014	\$233,186	\$26,818	\$266	\$27,084	0.1	0.1	147	F
2013	674,433	1,009	0.15%	2015	\$271,597	\$36,825	\$108	\$36,933	0.1	0.1	26	F
2014	588,842	362	0.06%	2016	\$218,525	\$10,826	\$0	\$10,826	0.1	0.1	-	F
2015	556,005	637	0.11%	2017	\$219,774	\$14,469	\$0	\$14,469	0.1	0.1	-	F
2016	602,669	1,125	0.19%	2018	\$93,912	\$36,093	\$300	\$36,394	0.4	0.4	17	F
2017	541,838	321	0.06%	2019	\$106,643	\$7,070	\$70	\$7,140	0.1	0.1	3	F
2018	495,020	1,149	0.23%	2020	\$68,226	\$21,337	\$558	\$21,895	0.3	0.3	5	F
2019	636,427	4,711	0.74%	2021	\$113,694	\$137,514	\$11,109	\$148,623	1.2	1.3	-	F
2020	498,758	1,138	0.23%	2022	\$74,639	\$37,914	\$1,905	\$39,819	0.5	0.5	-	F
<b>2020</b>	<b>28,056,609</b>	<b>415,005</b>			<b>\$5,754,367</b>	<b>\$6,379,206</b>	<b>\$909,599</b>	<b>\$7,288,804</b>			<b>15,694</b>	

Status: F = Final ; I = Incomplete adult returns  
 Note: BY2020 was the final brood year for the Andrews Creek Chinook program at Hidden Falls



Benefit:cost ratios for individual brood years. BC1 = Commercial Value / Project Cost.  
 BC2 = Total Value (commercial & cost recovery) / Project Cost.  
 This chart shows ratios for brood years with complete adult returns.



Cumulative Benefit: Cost Ratio currently is 1.1:1 for BC1 and 1.3:1 for BC2.



Total cost estimate in this chart is through BY20. Benefit for this period is complete, with further adult returns for this stock.