

Subject: **Deer Lake Coho Data**

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By: C. Blair

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Deer Lake Coho

Table 1a. Coho Salmon Release and Survival Data for Deer Lake:

Age I Smolt Releases

Brood Year	Broodstock Source (Stock Origin)	Fry Released	Smolt Released	% of Plant as Age I Smolt	Size (g)	Release Date	Marine Survival	Adult Return
1984	Banner Lk (S)	780,800	317,200	40.6%	13	May-June 1986	5.9%	18,750
1985								
1986	L. Rostislaf Lk (S)	842,900	370,500	44.0%	13	May-June 1988	7.0%	26,050
1987	Deer Lake (S)	475,000	306,000	64.4%	18	May-June 1989	17.2%	52,700
1988	Blanchard Lk. (DC)	1,443,500	680,000	47.1%	22	May-June 1990	24.4%	165,700
1989	Deer Lake (S)	1,741,500	737,100	42.3%	17	May-June 1991	19.5%	143,650
1990	Deer Lake (S)	1,875,000	591,800	31.6%	12	May-June 1992	12.8%	75,800
1991	Deer Lake (DC)	2,273,000	1,031,500	45.4%	16	May-June 1993	23.2%	239,200
1992	Deer Lake (S)	2,330,000	1,132,000	48.6%	16	May-June 1994	13.6%	153,500
1993	Deer Lake (S)	2,076,000	1,490,000	71.8%	18	May-June 1995	11.3%	168,300
1994	Hidden Falls (DC)	2,425,000	1,665,000	68.7%	16	May-June 1996	6.0%	99,100
1995	Hidden Falls (S)	2,505,000	1,812,000	72.3%	17	May-June 1997	4.9%	88,950
1996	Hidden Falls (S)	2,714,500	1,709,000	63.0%	17	May-June 1998	16.8%	286,657
1997	Hidden Falls (DC)	2,829,000	1,518,000	53.7%	10	May-June 1999	1.2%	17,858
1998	Hidden Falls (S)	2,525,000	408,550	16.2%	7	May-June 2000	6.7%	27,538
1999	Hidden Falls (S)	-	-	-	-	-	-	-
2000	Hidden Falls (DC)	2,408,000	951,300	39.5%	10	May-June 2002	5.5%	52,365
2001	Hidden Falls (S)	-	-	-	-	-	-	-
2002	Hidden Falls (S)	2,326,500	1,031,681	44.3%	17	May-June 2004	12.9%	133,501
2003	Hidden Falls (DC)	1,755,085	693,827	39.5%	17	May-June 2005	12.5%	86,507
2004	Hidden Falls (S)	581,923	264,290	45.4%	19	May-June 2006	10.3%	27,198
2005	Hidden Falls (S)	1,002,438	533,248	53.2%	15.9	May-June 2007	3.5%	18,458
2006	Hidden Falls (DC)	1,056,903	675,462	63.9%	14.2	May-June 2008	7.5%	50,994
2007	Hidden Falls (S)	1,110,882	838,183	75.5%	12.5	May-June 2009		
2008	Hidden Falls (S)	2,037,104						

BY 1991 fry - 2,055,000 fry were released into Deer Lake; 218,000 fry were released into Upper Deer Lake; total = 2,073,000

S= Sashin Creek stock; DC= Deep Cove stock

F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake

Table 1b. Coho Salmon Release and Survival Data for Deer Lake:

Age II Smolt Releases

Brood Year	Broodstock Source (Stock Origin)	Fry Released	Smolt Released	% of Plant as Age II Smolt	Size (g)	Release Date	Marine Survival	Adult Return
1984	Banner Lk (S)	780,800	32,400	4.1%	21	May-June 1987	4.8%	1,550
1985								
1986	L. Rostislaf Lk (S)	842,900	9,100	1.1%	35	May-June 1989	7.1%	650
1987	Deer Lake (S)	475,000	1,000	0.2%	32	May-June 1990	70.0%	700
1988	Blanchard Lk. (DC)	1,443,500	450	0.0%	46	May-June 1991	nd	nd
1989	Deer Lake (S)	1,741,500	925	0.1%	30	May-June 1992	nd	nd
1990	Deer Lake (S)	1,875,000	61,300	3.3%	28	May-June 1993	39.5%	24,200
1991	Deer Lake (DC)	2,273,000	34,600	1.5%	29	May-June 1994	17.1%	5,900
1992	Deer Lake (S)	2,330,000	4,650	0.2%	29	May-June 1995	10.8%	500
1993	Deer Lake (S)	2,076,000	2,675	0.1%	28	May-June 1996	6.5%	175
1994	Hidden Falls (DC)	2,425,000	2,950	0.1%	34	May-June 1997	18.3%	540
1995	Hidden Falls (S)	2,505,000	10,900	0.4%	30	May-June 1998	58.9%	6,418
1996	Hidden Falls (S)	2,714,500	22,850	0.8%	22	May-June 1999	2.7%	623
1997	Hidden Falls (DC)	2,829,000	202,600	7.2%	18	May-June 2000	30.1%	60,906
1998	Hidden Falls (S)	2,525,000	350,300	13.9%	29	May-June 2001	29.6%	103,613
1999	Hidden Falls (S)	-	-	-	-	-	-	-
2000	Hidden Falls (DC)	2,408,000	144,800	6.0%	28	May-June 2003	21.9%	31,757
2001	Hidden Falls (S)	-	-	-	-	-	-	-
2002	Hidden Falls (S)	2,326,500	26,610	1.1%	19	May-June 2005	5.1%	1,363
2003	Hidden Falls (DC)	1,755,085	18,482	1.1%	43	May-June 2006	42.8%	7,914
2004	Hidden Falls (S)	581,923	-	0.0%		May-June 2007		
2005	Hidden Falls (S)	1,002,438	-	0.0%		May-June 2008		
2006	Hidden Falls (DC)	1,056,903	-			May-June 2009		
2007	Hidden Falls (S)	1,110,882						
2008	Hidden Falls (S)	2,037,104						

BY 1991 fry - 2,055,000 fry were released into Deer Lake; 218,000 fry were released into Upper Deer Lake; total = 2,073,000

S= Sashin Creek stock; DC= Deep Cove stock

F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake

Table 1c. Coho Salmon Release and Survival Data for Deer Lake:

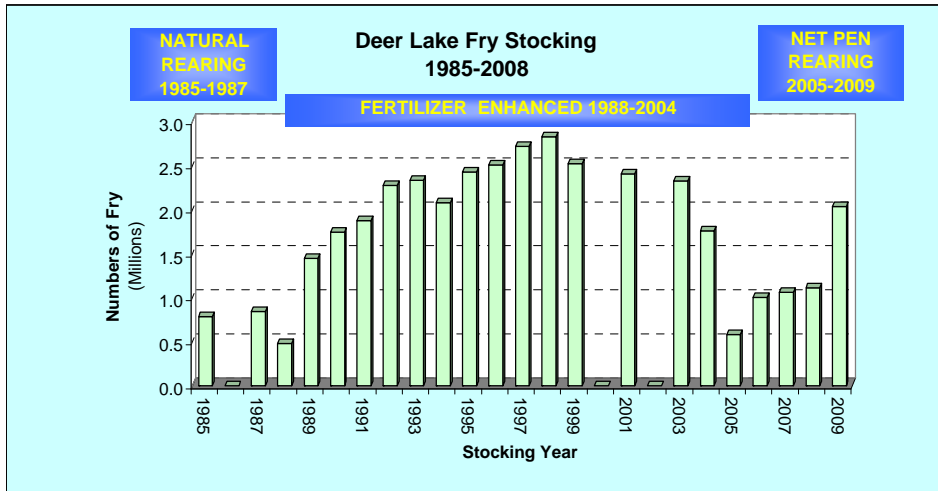
Age I & II Smolt Releases

Brood Year	Broodstock Source (Stock Origin)	Fry Released	Smolt Released	Percent of Plant	Marine Survival	Adult Return
1984	Banner Lk (S)	780,800	349,600	44.8%	5.8%	20,300
1985						
1986	L. Rostislaf Lk (S)	842,900	379,600	45.0%	7.0%	26,700
1987	Deer Lake (S)	475,000	307,000	64.6%	17.4%	53,400
1988	Blanchard Lk. (DC)	1,443,500	680,450	47.1%	24.4%	165,700
1989	Deer Lake (S)	1,741,500	738,025	42.4%	19.5%	143,650
1990	Deer Lake (S)	1,875,000	653,100	34.8%	15.3%	100,000
1991	Deer Lake (DC)	2,273,000	1,066,100	46.9%	23.0%	245,100
1992	Deer Lake (S)	2,330,000	1,136,650	48.8%	13.5%	154,000
1993	Deer Lake (S)	2,076,000	1,492,675	71.9%	11.3%	168,475
1994	Hidden Falls (DC)	2,425,000	1,667,950	68.8%	6.0%	99,640
1995	Hidden Falls (S)	2,505,000	1,822,900	72.8%	5.2%	95,368
1996	Hidden Falls (S)	2,714,500	1,731,850	63.8%	16.6%	287,280
1997	Hidden Falls (DC)	2,829,000	1,720,600	60.8%	4.6%	78,764
1998	Hidden Falls (S)	2,525,000	758,850	30.1%	17.3%	131,151
1999	Hidden Falls (S)	-	-	-	-	-
2000	Hidden Falls (DC)	2,408,000	1,096,100	45.5%	7.7%	84,122
2001	Hidden Falls (S)	-	-	-	-	-
2002	Hidden Falls (S)	2,326,500	1,058,291	45.5%	12.7%	134,864
2003	Hidden Falls (DC)	1,755,085	712,309	40.6%	13.3%	94,421
2004	Hidden Falls (S)	581,923	264,290	45.4%	10.3%	27,198
2005	Hidden Falls (S)	1,002,438	533,248	53.2%	3.5%	18,458
2006	Hidden Falls (DC)	1,056,903	675,462	63.9%	7.5%	50,994
2007	Hidden Falls (S)	1,110,882	838,183	75.5%	-	-
2008	Hidden Falls (S)	2,037,104	-	-	-	-

BY 1991 fry - 2,055,000 fry were released into Deer Lake; 218,000 fry were released into Upper Deer Lake; total = 2,073,000

S= Sashin Creek stock; DC= Deep Cove stock

F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake



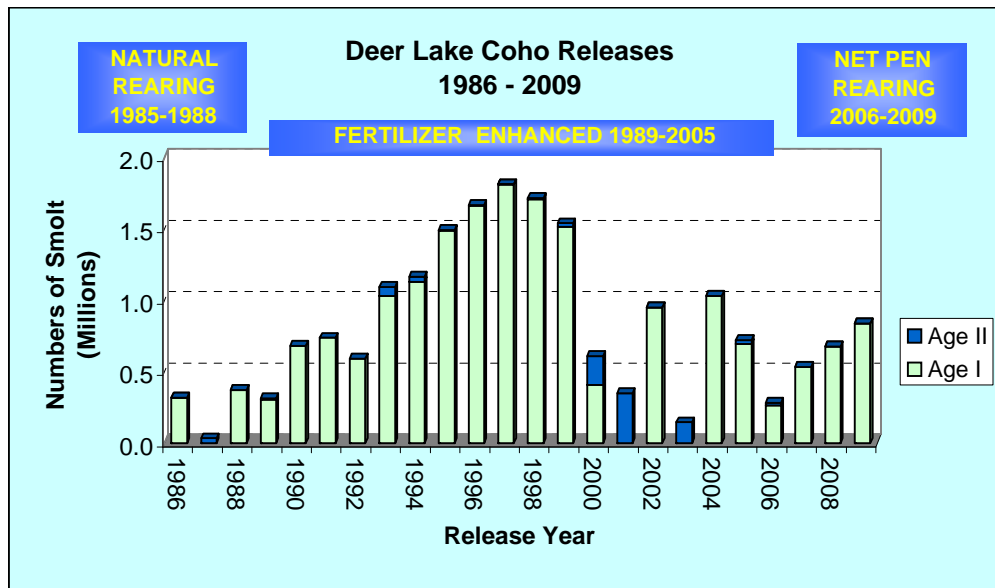
Deer Lake Coho

Table 2. Coho Salmon Release Numbers for Deer Lake by Age & Release Year

Release Year	Smolts Released				Total	
	Age I Brood Year	Age I Smolts	Age II Brood Year	Age II Smolts		
1986	1984	317,200	1983	-	317,200	
1987	1985	-	1984	32,400	32,400	
1988	1986	370,500	1985	-	370,500	
1989	1987	306,000	1986	9,100	315,100	F
1990	1988	680,000	1987	1,000	681,000	F
1991	1989	737,100	1988	450	737,550	F
1992	1990	591,800	1989	925	592,725	F
1993	1991	1,031,500	1990	61,300	1,092,800	F
1994	1992	1,132,000	1991	34,600	1,166,600	F
1995	1993	1,490,000	1992	4,650	1,494,650	F
1996	1994	1,665,000	1993	2,675	1,667,675	F
1997	1995	1,812,000	1994	2,950	1,814,950	F
1998	1996	1,709,000	1995	10,900	1,719,900	F
1999	1997	1,518,000	1996	22,850	1,540,850	F
2000	1998	408,550	1997	202,600	611,150	F
2001	1999	-	1998	350,300	350,300	F
2002	2000	951,300	1999	-	951,300	F
2003	2001	-	2000	144,800	144,800	F
2004	2002	1,031,681	2001	-	1,031,681	F
2005	2003	693,827	2002	26,610	720,437	F
2006	2004	264,290	2003	18,482	282,772	NP
2007	2005	533,248	2004	-	533,248	NP
2008	2006	675,462	2005	-	675,462	NP
2009	2007	838,183	2006	-	838,183	NP

BY 1991 - smolt numbers are from combined plant of 2,055,000 fry released into Deer Lake and 218,000 fry released into Upper Deer Lake

F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake



Deer Lake Coho

Table 3a. Coho Salmon Return Numbers for Deer Lake
Annual Returns from Age I Smolt Releases

Brood Year	Return Year	Smolt Released	Adult Return	Return in Thousands	Marine Survival
1984	1987	317,200	18,750	18.8	6%
1985	1988	-	-	-	-
1986	1989	370,500	26,050	26.1	7%
1987	1990	306,000	52,700	52.7	17% F
1988	1991	680,000	165,700	165.7	24% F
1989	1992	737,100	143,650	143.7	19% F
1990	1993	591,800	75,800	75.8	13% F
1991	1994	1,031,500	239,200	239.2	23% F
1992	1995	1,132,000	153,500	153.5	14% F
1993	1996	1,490,000	168,300	168.3	11% F
1994	1997	1,665,000	99,100	99.1	6% F
1995	1998	1,812,000	88,950	89.0	5% F
1996	1999	1,709,000	286,657	286.7	17% F
1997	2000	1,518,000	17,858	17.9	1% F
1998	2001	408,550	27,538	27.5	7% F
1999	2002	-	-	-	- F
2000	2003	951,300	52,365	52.4	6% F
2001	2004	-	-	-	- F
2002	2005	1,031,681	133,501	133.5	13% F
2003	2006	693,827	86,507	86.5	12% F
2004	2007	264,290	27,198	27.2	10% NP
2005	2008	533,248	18,458	18.5	3% NP
2006	2009	675,462	50,994	51.0	8% NP
2007	2010	838,183			NP

Table 3b. Coho Salmon Return Numbers for Deer Lake
Annual Returns from Age II Smolt Releases

Brood Year	Return Year	Smolt Released	Adult Return	Return in Thousands	Marine Survival
1984	1988	32,400	1,550	1.6	5%
1985	1989	-	-	-	-
1986	1990	9,100	650	0.7	7%
1987	1991	1,000	700	0.7	70% F
1988	1992	450	nd	nd	nd F
1989	1993	925	nd	nd	nd F
1990	1994	61,300	24,200	24.2	39% F
1991	1995	34,600	5,900	5.9	17% F
1992	1996	4,650	500	0.5	11% F
1993	1997	2,675	175	0.2	7% F
1994	1998	2,950	540	0.5	18% F
1995	1999	10,900	6,418	6.4	59% F
1996	2000	22,850	623	0.6	3% F
1997	2001	202,600	60,906	60.9	30% F
1998	2002	350,300	103,613	103.6	30% F
1999	2003	-	-	-	- F
2000	2004	144,800	31,757	31.8	22% F
2001	2005	-	-	-	- F
2002	2006	26,610	1,363	1.36	5% F
2003	2007	18,482	7,914	7.91	43% F
2004	2008	-			NP
2005	2009	-			NP
2006	2010	-			NP

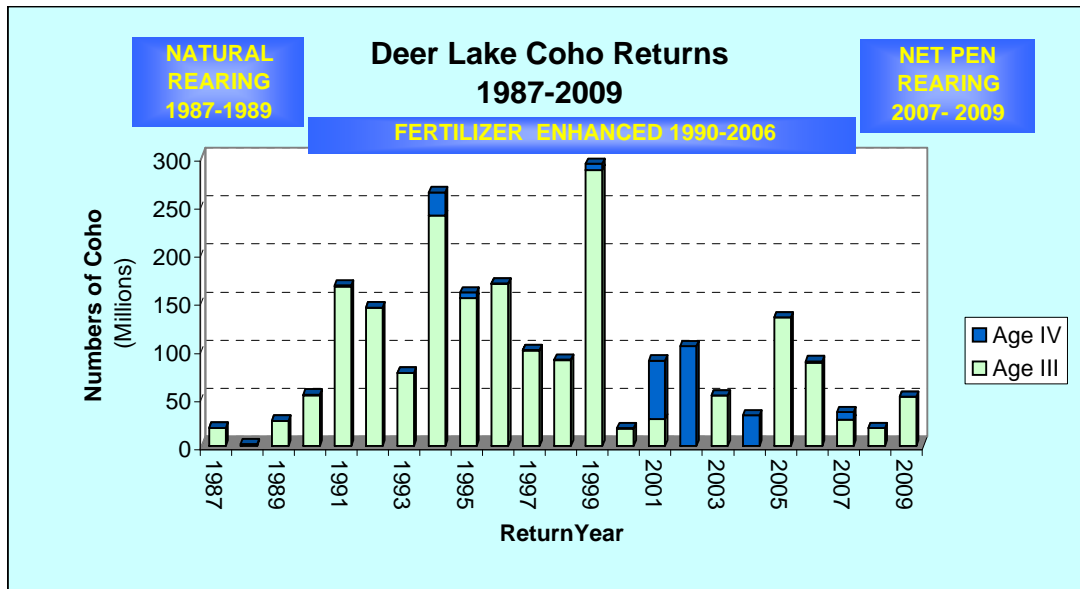
F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake

Table 3c. Coho Salmon Return Numbers for Deer Lake
Annual Returns from Age I & II Smolt Releases

Brood Years	Smolt Age	Adult Age	Return Year	Age III Return	Age IV Return	Total Return
1984	I	III	1987	18,750	-	18,750
1984	II	IV	1988	-	1,550	1,550
1986	I	III	1989	26,050	-	26,050
1986-87	I & II	III & IV	1990	52,700	650	53,350
1987-88	I & II	III & IV	1991	165,700	700	166,400
1988-89	I & II	III & IV	1992	143,650	nd	143,650
1989-90	I & II	III & IV	1993	75,800	nd	75,800
1990-91	I & II	III & IV	1994	239,200	24,200	263,400
1991-92	I & II	III & IV	1995	153,500	5,900	159,400
1992-93	I & II	III & IV	1996	168,300	500	168,800
1993-94	I & II	III & IV	1997	99,100	175	99,275
1994-95	I & II	III & IV	1998	88,950	540	89,490
1995-96	I & II	III & IV	1999	286,657	6,418	293,075
1996-97	I & II	III & IV	2000	17,858	623	18,481
1997-98	I & II	III & IV	2001	27,538	60,906	88,444
1998	II	IV	2002	-	103,613	103,613
2000	I	III	2003	52,365	-	52,365
2000	II	IV	2004	-	31,757	31,757
2002	I	III	2005	133,501	-	133,501
2002-03	I & II	III & IV	2006	86,507	1,363	87,870
2003-04	I & II	III & IV	2007	27,198	7,914	35,112
2005	I	III	2008	18,458	-	18,458
2006	I	III	2009	50,994	-	50,994

Table 3d. Coho Salmon Return Numbers for Deer Lake
Annual Returns from Age I & II Smolt Releases(Thousands)

Brood Years	Smolt Age	Adult Age	Return Year	Age III Return	Age IV Return	Total Return
1984	I	III	1987	18.8	-	18.8
1984	II	IV	1988	-	1.6	1.6
1986	I	III	1989	26.1	-	26.1
1986-87	I & II	III & IV	1990	52.7	0.7	53.4
1987-88	I & II	III & IV	1991	165.7	0.7	166.4
1988-89	I & II	III & IV	1992	143.7	nd	143.7
1989-90	I & II	III & IV	1993	75.8	nd	75.8
1990-91	I & II	III & IV	1994	239.2	24.2	263.4
1991-92	I & II	III & IV	1995	153.5	5.9	159.4
1992-93	I & II	III & IV	1996	168.3	0.5	168.8
1993-94	I & II	III & IV	1997	99.1	0.2	99.3
1994-95	I & II	III & IV	1998	89.0	0.5	89.5
1995-96	I & II	III & IV	1999	286.7	6.4	293.1
1996-97	I & II	III & IV	2000	17.9	0.6	18.5
1997-98	I & II	III & IV	2001	27.5	60.9	88.4
1998	II	IV	2002	-	103.6	103.6
2000	I	III	2003	52.4	-	52.4
2000	II	IV	2004	-	31.8	31.8
2002	I	III	2005	133.5	-	133.5
2002-03	I & II	III & IV	2006	86.5	1.4	87.9
2003-04	I & II	III & IV	2007	27.2	7.9	35.1
2005	I & II	III & IV	2008	18.5	-	18.5
2006	I	III	2009	51.0	-	51.0

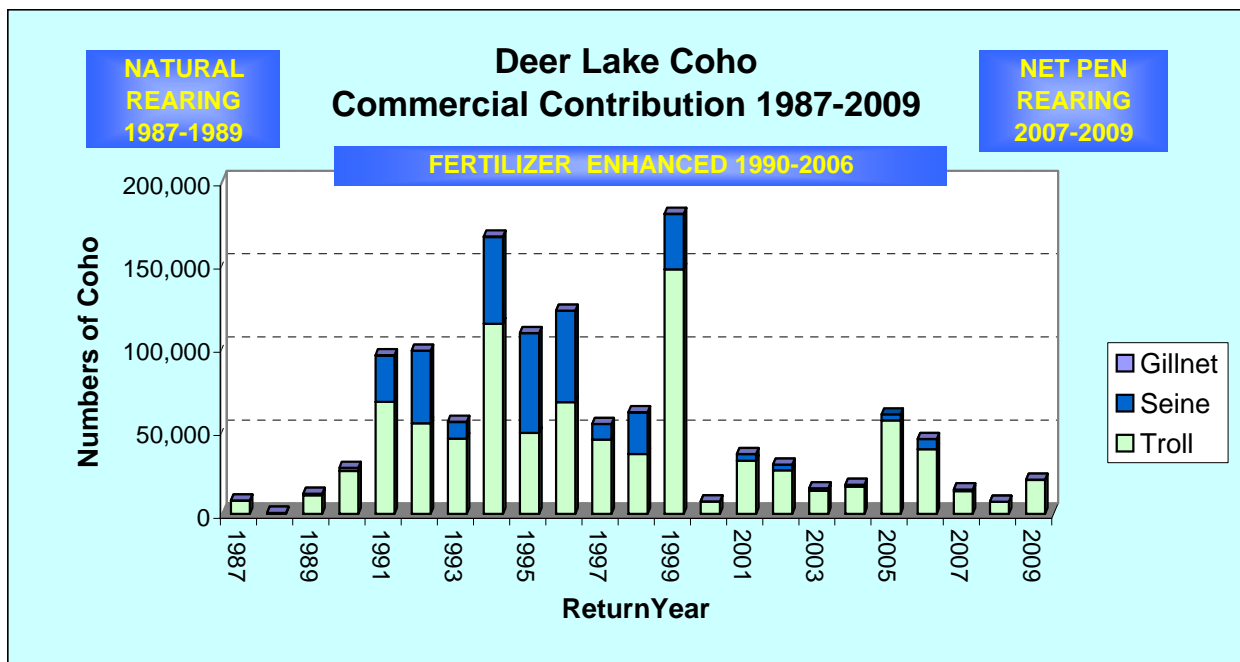


Deer Lake Coho

Table 4. Coho Salmon Return Numbers for Deer Lake
Commercial Catch - Number of Fish

Return Year	Alaska Commercial Catch			Total	
	Troll	Seine	Gillnet		
1987	7,864	185	-	8,049	
1988	600	106	-	706	
1989	11,293	885	-	12,178	
1990	25,737	1,937	119	27,793	F
1991	67,375	28,000	52	95,427	F
1992	54,589	43,500	-	98,089	F
1993	45,236	10,000	133	55,369	F
1994	114,332	52,205	285	166,822	F
1995	48,779	60,000	-	108,779	F
1996	67,286	55,000	-	122,286	F
1997	44,732	9,300	-	54,032	F
1998	36,006	25,000	145	61,151	F
1999	146,977	33,374	181	180,532	F
2000	7,536	-	-	7,536	F
2001	31,999	3,944	-	35,943	F
2002	26,272	3,417	-	29,689	F
2003	13,917	1,465	-	15,382	F
2004	16,334	1,292	-	17,626	F
2005	56,224	3,579	-	59,803	F
2006	38,940	6,042	-	44,982	F
2007	13,771	972	-	14,743	NP
2008	7,380	-	-	7,380	NP
2009	20,400	230	-	20,630	NP

F= Lake was fertilized; NP= Fry reared in net pens in Deer Lake



Deer Lake Coho

Table 5. Deer Lake Coho - Return Utilization

Return Year	Troll	Seine	Gillnet	Sport	CR	Brood Escap Other	Total Return	Release	Marine Survival	% Troll	% Seine	% Commercial	% CPH	% CR
1991	67,230	28,000	52	950	66,500	2,746	165,478	681,000	24%	41%	17%	58%	58%	40%
1992	54,589	43,500	-	1,130	42,201	2,316	143,736	737,550	19%	38%	30%	68%	69%	29%
1993	45,236	10,000	133	880	16,927	3,215	76,391	592,725	13%	59%	13%	72%	74%	22%
1994	114,326	52,198	285	1,206	93,876	1,299	263,190	1,092,800	24%	43%	20%	63%	64%	36%
1995	48,782	60,000	-	1,253	47,836	1,568	159,439	1,166,600	14%	31%	38%	68%	69%	30%
1996	68,079	55,000	-	1,525	43,900	626	169,130	1,494,650	11%	40%	33%	73%	74%	26%
1997	45,419	9,300	-	1,176	43,560	457	99,912	1,667,675	6%	45%	9%	55%	56%	44%
1998	36,416	25,000	145	912	26,837	228	89,538	1,814,950	5%	41%	28%	69%	70%	30%
1999	146,979	33,374	181	5,877	105,900	1,100	293,411	1,719,900	17%	50%	11%	62%	64%	36%
2000	7,536	-	-	772	10,057	112	18,477	1,540,850	1%	41%	0%	41%	45%	54%
2001	31,999	3,944	-	2,873	47,245	2,382	88,443	611,150	14%	36%	4%	41%	44%	53%
2002	26,272	3,417	-	2,253	71,224	414	103,580	350,300	30%	25%	3%	29%	31%	69%
2003	13,917	1,465	-	1,767	34,075	1,141	52,365	951,300	6%	27%	3%	29%	33%	65%
2004	16,334	1,292	-	500	15,759	821	34,706	144,800	24%	47%	4%	51%	52%	45%
2005	56,224	3,579	-	2,078	69,618	2,003	133,501	1,031,681	13%	42%	3%	45%	46%	52%
2006	38,940	6,042	-	1,829	37,658	3,401	87,870	720,437	12%	44%	7%	51%	53%	43%
2007	13,771	972	-	1,098	15,593	3,678	35,112	282,772	12%	39%	3%	42%	45%	44%
2008	7,380	-	-	1,000	8,048	2,040	18,468	533,248	3%	40%	0%	40%	45%	44%
2009	20,400	230	-	1,107	26,587	2,670	50,994	675,462	8%	40%	0%	40%	43%	52%
Average - all years	45,254	17,753	42	1,589	43,337	1,696	109,671	937,361	13.5%	40.5%	11.9%	52.4%	54.4%	42.9%
Average - 5yr (2005-09)	27,343	2,165	-	1,422	31,501	2,758	65,189	648,720	9.7%	41.1%	2.6%	43.7%	46.5%	47.0%
Average - 10yr (2000-09)	23,277	2,094	-	1,528	33,586	1,866	62,352	684,200	12.3%	38.2%	2.7%	40.9%	43.7%	52.2%

CR = Cost Recovery

Brood = Broodstock

Escap = Escapement

CPH = Common Property Harvest (Commercial plus Sport)