

Table 2a. Chum Salmon Release and Survival Data for Hidden Falls Hatchery and Remote Release Sites.

Brood Year	Egg Source <sup>1</sup>	Release Site	Number Fry Released <sup>2</sup>	Size (g)	Size (g) Weighted Avg.	Release Dates	% Marine Survival	Total Return
2011	HF	KAS, TAK	80,990,646	1.9-3.7	2.39	(KAS) 5/18-23, 6/1, 2/12 (TAK) 5/24-26,30,31, 6/2,9,10/12 <sup>4</sup>	0.36%	295,485
2012	HF	KAS, TAK	74,521,716	2.1-4.2	2.55	(KAS) 5/24, 6/3 5/23-26/13 <sup>4</sup> (TAK)	0.37%	274,410
2013	HF	KAS, TAK	74,815,037	2.1-4.3	2.59	(KAS) 5/21-27, 6/6-7 (TAK) 5/23-27, 6/5-7/14 <sup>4</sup> (KAS) 5/12-18,25,28- 29/15 (TAK) 5/17-21,27- 28/15 <sup>4</sup>	0.70%	526,645
2014	HF	KAS, TAK	73,605,540	2.1-4.3	2.63	(KAS) 4/27,28,5/2,3,4, 5/12-16/16 (TAK) 4/30, 5/2, 5/12-16/16	0.20%	150,204
2015	HF	KAS, TAK	84,397,127	2.2-4.5	2.68	(KAS) 5/10-14, 5/30- 6/1/17 (E CHAT) 5/10-13, 5/30-31/17	0.32%	272,199
2016	HF	KAS/ EAST CHATHAM	64,602,663	1.7-3.7	2.11	(KAS) 5/20, 22, 6/2-3/18 (E CHAT) 5/17-20, 6/2/18 (KAS) 5/6, 9, 27/19 (E CHAT) 5/6-7, 9, 22-24/19 (KAS) 5/5-8, 6/2-3/20 (ECHAT) 5/5-7, 5/30- 6/1/20	0.21%	132,500
2017	HF	KAS/ EAST CHATHAM	43,725,791	2.2-4.5	2.88	(KAS) 5/19,21,22/21, 6/2/21 (ECHAT) 5/17- 18/21, 5/30-31/21	0.69%	302,663
2018	HF	KAS/ EAST CHATHAM	47,623,744	1.82-3.81	2.53	(KAS) 5/15-16/22, 6/2,4/22 (ECHAT) 5/12-14/22, 5/31,6/1-2/22	1.16%	551,609
2019	HF	KAS/ EAST CHATHAM	48,589,947	1.72-4.96	3.23	(Kas earlies)4/20/23 (Kas regs)5/20/23 (Kas LL)6/5,6/6/23	2.58%	1,254,291 <sup>3</sup>
2020	HF	KAS/ EAST CHATHAM	48,895,105	1.55-3.08	2.32	(TAK regs) 4/21/24 (KAS/CATH regs) 5/11/24 (TAK LL) 5/12/24 (KAS LL) 5/26/24 (CATH LL)	2.26%	1,106,299 <sup>3</sup>
2021	HF	KAS/ EAST CHATHAM	50,982,098	1.97-3.97	2.96	(KAS) 5/19,21,22/21, 6/2/21 (ECHAT) 5/17- 18/21, 5/30-31/21	0.53%	268,987 <sup>3</sup>
2022	HF	KAS	45,592,387	2.16-4.17	3.18	(KAS) 5/19,21,22, 23, 25-30/19 5/19/20, 5/25,26,27,28,30,31,6/2/2		
2023	HF	KAS/ CATHERINE I., TAK	87,693,386	1.99-4.27	3.12	(TAK) 5/27/24		5

Table 2a. Continued

Brood Year	Egg Source <sup>1</sup>	Release Site	Number Fry Released <sup>2</sup>	Size (g)	Size (g) Weighted Avg.	Release Dates	% Marine Survival	Total Return
<b>SOUTHEAST COVE</b>								
2012	HF	SE COVE	8,712,136	4.01	4.01	6/8/2013	2.20%	191,518
2013	HF	SE COVE	9,142,373	3.89	3.89	6/7/2014	0.39%	35,794
2014	HF	SE COVE	17,478,583	4.15	4.15	5/30/2015	0.46%	80,447
2015	HF	SE COVE	42,758,270	2.3-4.1	2.87	5/8-13, 5/23-27/16 5/8, 10, 11, 14, 15, 17, 19, 21, 29-31, 6/1, 3, 4/17	2.58%	1,101,995
2016	HF	SE COVE	46,749,525	2.0-4.2	2.87	5/18, 19, 20, 21, 23, 24, 26, 6/8, 9 10/18	0.20%	91,812
2017	HF	SE COVE	43,109,082	2.1-4.1	2.83	5/19, 21, 22, 23, 25-30/19 5/19/20, 5/25,26,27,28,30,31,6/2/2	0.17%	72,420
2018	HF	SE COVE	36,644,291	2.3-4.3	3.34	0	0.41%	148,881
2019	HF	SE COVE	40,951,776	2.12-4.09	3.10	5/27-29/21, 6/8-10/21	1.18%	482,277 <sup>3</sup>
2020	HF	SE COVE	35,357,207	2.01-3.44	3.06	5/6-18/22, 5/29-6/5/22	0.69%	243,072 <sup>3</sup>
2021	HF	SE COVE	36,087,907	2.0-4.12	3.08	5/22/23, 6/6/23	0.28%	102,603 <sup>3</sup>
2022	HF	SE COVE	41,895,230	2.06-4.19	3.14	5/22/23, 6/6/23		
2023	HF	SE COVE	42,050,244	1.92-4.27	3.10	5/2/24, 5/30/24		
<b>THOMAS BAY</b>								
2016	HF	THOMAS BAY	21,899,063	2.2-4.2	2.85	5/4,8,23,26/17	0.23%	49,743
2017	HF	THOMAS BAY	22,255,897	2.2-4.8	3.32	5/22, 23, 24, 6/7, 8, 9/18	0.53%	116,850
2018	MC	THOMAS BAY	15,350,544	2.1-4.7	3.50	5/10-11, 27-29/19 5/12-14/20,	0.50%	77,012
2019	HF	THOMAS BAY	21,398,311	2.11-4.91	3.51	5/30,31,6/1,2/20	0.40%	84,812 <sup>3</sup>
2020	HF	THOMAS BAY	11,691,221	4.34	4.34	5/31/21-6/3/21	4.30%	503,181 <sup>3</sup>
2021	HF	THOMAS BAY	14,846,799	2.31-4.15	3.23	5/19,31/22, 6/2/22	0.07%	9,693 <sup>3</sup>
2022	HF	THOMAS BAY	19,918,363	2.34-4.05	3.36	5/22,5/31/23		
2023	HF	THOMAS BAY	22,532,009	2.10-3.36	2.76	6/2/2024		
<b>GUNNUK CREEK</b>								
2017	HF	GUNNUK GREEK	8,866,586	4.39	4.39	5/30, 31, 6/1, 2/18	0.57%	50,932
2018	HF	GUNNUK GREEK	15,857,078	2.5-4.2	3.40	5/17, 25, 29-30/19	0.16%	24,580
2019	HF	GUNNUK GREEK	16,142,492	2.3-4.24	3.27	5/7-9, 6/3/20	0.10%	15,723 <sup>3</sup>
2020	HF	GUNNUK GREEK	17,566,539	2.3-4.44	3.33	5/10/2021, 6/1/21	0.44%	76,805 <sup>3</sup>
2021	GCH+HF	GUNNUK GREEK	16,747,099	1.98-4.84	3.27	5/6-20/22, 5/29-6/5/22	0.005%	770 <sup>3</sup>
2022	GCH+MCIF	GUNNUK GREEK	12,799,791	2.19-4.21	3.20	5/22/23, 6/2/23		
2023	GCH+HF	GUNNUK GREEK	14,267,627	2.01-4.40	3.29	4/29/24, 5/24,25/24		

<sup>1</sup> MC= Macaulay Returns, K= Kadashan River, C= Clear River, S= Seal Bay, HF= Hidden Falls Returns  
BY77 (unknown) and BY81 (K) are entries in ADF&G database (M. McNair 5/98)  
<sup>2</sup> This table contains data for fed fry only.  
<sup>3</sup> Incomplete Returns.  
<sup>4</sup> Daily releases for periods shown; staggered to reduce potential of whale predation  
<sup>5</sup> Cooperative agreement with AKI for additional release of up to 40 million (30 million at Takatz, 10 million at Kas)

Table 2b. Chum Salmon Release Data for Hidden Falls Hatchery.

Release Site/ Fed or Unfed Status / Late-Large	KAS/TENDER		TAKATZ		Total	Release			Total	Grand Totals
BY	Fed Fry Regular	Fed Fry Late - Large	Fed Fry Regular	Fed Fry Late - Large	Fed Fry	Biomass (kg)	Kasnyku Unfed Fry	Baranof Unfed Fry	Unfed Fry	Fed+Unfed
1977	212,551				212,551	180				212,551
1978	1,889,184				1,889,184	2,141				1,889,184
1979	3,599,384				3,599,384	6,341				3,599,384
1980	9,013,938				9,013,938	13,907				9,013,938
1981	10,291,351				10,291,351	13,769				10,291,351
1982	18,909,761				18,909,761	17,775	2,726,310		2,726,310	21,636,071
1983	20,100,000				20,100,000	20,301	8,400,000		8,400,000	28,500,000
1984	21,530,000				21,530,000	17,661	8,550,000		8,550,000	30,080,000
1985	19,680,000				19,680,000	12,406	24,060,000	1,560,000	25,620,000	45,300,000
1986	21,140,000		19,250,000		40,390,000	49,841				40,390,000
1987	29,181,000		21,574,717		50,755,717	81,894				50,755,717
1988	34,249,000		26,051,600		60,300,600	94,793				60,300,600
1989	36,371,500		26,135,291		62,506,791	109,412				62,506,791
1990	37,686,000		26,589,400		64,275,400	99,453				64,275,400
1991	36,479,100		19,650,100		56,129,200	83,913				56,129,200
1992	36,530,800		25,912,100		62,442,900	106,153				62,442,900
1993	33,155,175		27,067,798		60,222,973	92,388				60,222,973
1994	37,035,400		33,854,350		70,889,750	121,009				70,889,750
1995	49,715,678		26,956,000		76,671,678	121,732				76,671,678
1996	37,544,876		25,021,120		62,565,996	107,782				62,565,996
1997	37,809,253		25,882,728		63,691,981	133,753				63,691,981
1998	48,905,343		25,744,971		74,650,314	123,920				74,650,314
1999	38,689,735		36,259,333		74,949,068	139,405				74,949,068
2000	41,925,974		38,918,758		80,844,732	160,881				80,844,732
2001	36,503,940		36,316,937		72,820,877	109,231				72,820,877
2002	38,788,889		36,626,794		75,415,683	146,306				75,415,683
2003	29,881,079	13,662,435	45,054,655		88,598,169	200,232				88,598,169
2004	33,897,948	9,917,604	44,984,748		88,800,300	191,809				88,800,300
2005	34,971,120	9,300,684	41,926,494		86,198,298	187,912				86,198,298
2006	34,654,534	9,252,243	44,395,047		88,301,824	209,904				88,301,824
2007	31,966,262	9,688,433	42,828,059		84,482,754	206,138				84,482,754
2008	41,302,992		40,294,519		81,597,511	185,095				81,597,511
2009	40,268,478		39,039,177		79,307,655	164,923				79,307,655
2010	37,630,694		30,212,170	8,595,158	76,438,022	177,508				76,438,022
2011	31,283,930	7,048,558	29,204,857	13,453,301	80,990,646	193,392				80,990,646
2012	28,358,647	6,508,719	29,681,749	9,972,601	74,521,716	190,030				74,521,716
2013	25,970,400	6,395,064	32,028,756	10,420,817	74,815,037	194,117				74,815,037
2014	23,868,519	6,513,515	31,396,973	11,826,533	73,605,540	193,460				73,605,540
2015	35,599,703	10,419,637	31,032,302	7,345,485	84,397,127	226,391				84,397,127
2016	53,311,753	11,290,910			64,602,663	136,503				64,602,663
2017	30,183,284	13,542,507			43,725,791	126,114				43,725,791
2018	32,092,646	15,531,098			47,623,744	120,575				47,623,744
2019	23,537,892	25,052,055			48,589,947	159,427				48,589,947
2020	23,922,415	24,972,690			48,895,105	113,816				48,895,105
2021	25,030,977	25,951,121			50,982,098	150,979				50,982,098
2022	22,759,617	22,832,770			45,592,387	144,917				45,592,387
* 2023	29,240,969	30,831,110	13,849,810	13,771,498	87,693,386	273,293				87,693,386

Table 2b. Chum Salmon Release Data for Hidden Falls Hatchery. (cont.)

Release Site/ Fed or Unfed Status / Late-Large	Southeast Cove		Southeast Cove		Total	Release			Total	Grand Totals
BY	Fed Fry Regular	Fed Fry Late - Large	Fed Fry Regular	Fed Fry Late - Large	Fed Fry	Biomass (kg)			Unfed Fry	Fed+Unfed
2012		8,712,136			8,712,136	34,936				8,712,136
2013		9,142,373			9,142,373	35,564				9,142,373
2014		17,478,583			17,478,583	72,536				17,478,583
2015	29,441,527	13,316,743			42,758,270	122,826				42,758,270
2016	29,183,809	17,565,716			46,749,525	134,014				46,749,525
2017	27,367,140	15,741,942			43,109,082	121,897				43,109,082
2018	17,074,771	19,569,520			36,644,291	122,567				36,644,291
2019	20,068,712	20,883,064			40,951,776	127,958				40,951,776
2020	9,198,802	26,158,405			35,357,207	107,441				35,357,207
2021	17,710,505	18,377,402			36,087,907	111,151				36,087,907
2022	20,727,576	21,167,654			41,895,230	131,272				41,895,230
2023	20,880,991	21,169,253			42,050,244	130,428				42,050,244
BY	Thomas Bay Fed Fry Regular	Thomas Bay Fed Fry Late - Large	Thomas Bay		Total	Release			Total	Grand Totals
			Fed Fry Regular	Fed Fry Late - Large	Fed Fry	Biomass (kg)			Unfed Fry	Fed+Unfed
2016	14,749,497	7,149,566			21,899,063	62,334				21,899,063
2017	12,952,470	9,303,427			22,255,897	73,820				22,255,897
2018	6,881,163	8,469,381			15,350,544	53,780				15,350,544
2019	10,835,469	10,562,842			21,398,311	74,727				21,398,311
2020		11,691,221			11,691,221	50,741				11,691,221
2021	7,443,023	7,403,776			14,846,799	47,919				14,846,799
2022	7,963,718	11,954,645			19,918,363	67,015				19,918,363
2023	10,674,664	11,857,345			22,532,009	62,198				22,532,009
BY	Gunnuk Creek Fed Fry Regular	Gunnuk Creek Fed Fry Late - Large	Gunnuk Creek		Total	Release			Total	Grand Totals
			Fed Fry Regular	Fed Fry Late - Large	Fed Fry	Biomass (kg)			Unfed Fry	Fed+Unfed
2017		8,866,586			8,866,586	38,924				8,866,586
2018	7,071,823	8,785,255			15,857,078	53,943				15,857,078
2019	6,475,719	9,666,773			16,142,492	55,881				16,142,492
2020	8,344,163	9,222,376			17,566,539	59,554				17,566,539
2021	8,484,195	8,262,904			16,747,099	54,763				16,747,099
2022	6,378,447	6,421,344			12,799,791	40,927				12,799,791
2023	6,229,022	8,038,605			14,267,627	46,884				14,267,627

\* Beginning with BY 2023 - cooperative agreement with AKI for additional release of up to 40 million (30 million at Takatz, 10 million at Kas)

Table 2c. Annual Chum Salmon Returns to Hidden Falls Hatchery.

Return Utilization									
Return Year	Commercial	Percent	Broodstock	Percent	Surplus/ Egg Sales	Percent	Cost Recovery	Percent	Total Return
1980	0		0						5
1981	ND		ND						3,431
1982	ND		ND						58,030
1983	73,334	62%	45,253	38%					118,587
1984	561,793	91%	32,000	5%	22,400	4%			616,193
1985	380,567	84%	65,000	14%	5,020	1%			450,587
1986	594,819	89%	55,000	8%	15,000	2%			664,819
1987	434,453	80%	85,095	16%	2,000	0%	22,091	4%	543,639
1988	205,594	49%	75,149	18%	2,200	1%	139,028	33%	421,971
1989	50,184	32%	72,576	47%	1,500	1%	30,703	20%	154,963
1990	257,587	54%	81,373	17%	8,500	2%	132,258	28%	479,718
1991	579,329	67%	71,985	8%	16,067	2%	202,522	23%	869,903
1992	738,121	72%	83,932	8%	18,894	2%	186,037	18%	1,026,984
1993	1,437,282	80%	112,153	6%	49,759	3%	192,011	11%	1,791,205
1994	2,855,275	89%	88,290	3%	60,264	2%	204,043	6%	3,207,872
1995	3,216,855	90%	82,729	2%	45,526	1%	212,643	6%	3,557,753
1996	3,370,728	83%	72,636	2%	130,499	3%	481,479	12%	4,055,342
1997	1,377,400	81%	71,247	4%	41,153	2%	220,064	13%	1,709,864
1998	1,837,515	82%	80,582	4%	31,390	1%	302,981	13%	2,252,468
1999	2,336,207	86%	79,599	3%	19,655	1%	279,238	10%	2,714,699
2000	2,737,324	88%	75,377	2%	20,845	1%	266,903	9%	3,100,449
2001	1,177,019	74%	93,256	6%	32,806	2%	278,466	18%	1,581,547
2002	1,230,535	76%	88,569	5%	23,824	1%	277,562	17%	1,620,490
2003	1,351,523	63%	123,833	6%	69,260	3%	604,325	28%	2,148,941
2004	1,154,761	60%	118,420	6%	17,148	1%	622,887	33%	1,913,216
2005	342,258	42%	110,904	14%	27,414	3%	325,985	40%	806,561
2006	1,761,483	81%	104,562	5%	34,231	2%	284,803	13%	2,185,079
2007	500,931	41%	99,137	8%	32,334	3%	594,692	48%	1,227,094
2008	1,747,811	78%	79,510	4%	52,515	2%	371,721	17%	2,251,557
2009	1,889,975	82%	88,283	4%	23,326	1%	303,385	13%	2,304,969
2010	659,437	66%	91,180	9%	25,131	3%	217,808	22%	993,556
2011	132,228	36%	95,113	26%	48,062	13%	96,538	26%	371,941
2012	1,084,357	87%	104,102	8%	43,680	4%	7,948	1%	1,240,087
2013	1,239,914	89%	113,334	8%	33,376	2%	27	0%	1,386,651
2014	252,007	54%	106,974	23%	60,248	13%	51,117	11%	470,346
2015	36,988	13%	149,132	54%	89,748	33%	191	0%	276,059
2016	11,928	5%	146,932	58%	63,285	25%	32,875	13%	255,020
2017	192,787	45%	148,125	35%	63,067	15%	20,187	5%	424,165
2018	229,742	68%	86,557	26%	19,759	6%	95	0%	336,154
2019	23,913	10%	151,170	63%	62,439	26%	1,186	0%	238,708
2020	11,288	6%	115,792	60%	67,512	35%		0%	194,591
2021	15,268	7%	113,026	50%	72,064	32%	24,232	11%	224,590
2022	194,669	40%	140,590	29%	93,253	19%	57,151	12%	485,664
2023	922,314	74%	165,220	13%	159,621	13%	1,749	0%	1,248,904
2024	967,992	66%	159,241	11%	92,508	6%	248,548	17%	1,468,288

Big Picture Total

276,059  
255,020  
424,165  
336,154  
238,708  
194,591  
224,590  
485,664  
1,248,904  
1,468,288

1977-1988 = Hidden Falls Returns, 1989 and later = Hidden Falls & Takatz Bay (during Takatz operational years).

1996 Cost Recovery includes 200,873 regular cost recovery and 280,606 Joint Venture Roe fish.

1998 Cost Recovery includes 239,227 regular cost recovery and 63,754 surplus fish harvested in August.

Broodstock included eggs for Gunnuk Creek Hatchery: 2009-2010, 2012, 2017-2023

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Table 2d. Annual Chum Salmon Returns to Southeast Cove.

Return Utilization									
Return Year	Commercial	Percent	Broodstock	Percent	Surplus/ Egg Sales	Percent	Cost Recovery	Percent	Total Return
2015	0	0%	0		0	0.0%	14,273	100%	14,273
2016	311	0%	0		2,246	1.5%	149,409	98%	151,966
2017	198	0%	0		1,139	2.3%	52,434	106%	49,502
2018	5,569	3%	0		278	0.1%	184,680	97%	190,527
2019	99,788	11%	0		1,395	0.1%	847,237	89%	948,420
2020	124,667	93%	0		5,280	3.9%	4,481	3%	134,428
2021	53,256	97%	0		999	1.8%	365	1%	54,679
2022	218,055	99%	0		1,302	0.6%	1,210	1%	220,567
2023	19,678	5%	0		1,592	0.4%	362,305	94%	383,575
2024	284,944	71%	0		1,019	0.3%	112,709	28%	398,672

Surplus/egg sale estimates for Southeast Cove chum from both Hidden Falls and Gunnuk Creek hatcheries, per otolith sampling