

Appendix 2-E:
Detail of Chinook Plantings
from Dungeness Hatcheries

TABLE 2.
Dungeness Chinook Captive Brood Program
Marks and Releases for the 1995 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
June 24, 1996	Dungeness Forks	Fingerling	900	159/lb	Adcwt
June 24, 1996	East Crossing	Fingerling	300	159/lb	Adcwt
June 24, 1996	Gold Creek	Fingerling	300	159/lb	Adcwt
June 24, 1996	Gray Wolf River	Fingerling	1,150	159/lb	Adcwt
August 30, 1996	Gray Wolf River	0+Smolt	1,115	35/lb	Adcwt
August 30, 1996	Gray Wolf River	0+Smolt	9,248	93/lb	Adcwt
Total Number Released			13,013		

Dungeness Chinook Captive Brood Program
Marks and Releases for the 1996 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
June 24, 1997	Gold Creek	Fingerling	94,100	294/lb	Ad+Otolith 2
June 24, 1997	Klink Bridge	Fingerling	98,200	294/lb	Ad+Otolith 3
June 30, 1997	Gray Wolf Acclimation Pond	Fingerling	387,750	163/lb	Ad+Otolith 1
July 9, 1997	East Crossing	Fingerling	219,152	218/lb	Adcwt
July 14, 1997	Gray Wolf Acclimation Pond	0+Smolt	196,300	115/lb	Adcwt
July 21, 1997	Dungeness Hatchery	Fingerling	482,071	161/lb	Blank Wire
August 1, 1997	Dungeness Hatchery	Fingerling	286,963	198/lb	Blank Wire
August 8, 1997	Dungeness Hatchery	Fingerling	10,000	300/lb	Ad only
Total Number Released			1,774,536		

TABLE 2, cont'd
Dungeness Chinook Captive Brood Program
Marks and Releases for the 1997 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
May 5, 1998	Gold Creek	Fingerling	51,900	478/lb	Otolith 2+Strontium
May 12, 1998	Gold Creek	Fingerling	109,000	426/lb	Otolith 2
May 12, 1998	East Crossing	Fingerling	170,400	426/lb	Otolith 2
May 18, 1998	Gold Creek	Fingerling	45,700	412/lb	Otolith 2+Strontium
June 12, 1998	Dungeness Hatchery	Fingerling	200,500	440/lb	None
June 18, 1998	Gray Wolf Acclimation Pond	Fingerling	362,500	201/lb	Otolith 1
July 6, 1998	East Crossing	Fingerling	97,554	178/lb	Adcwt
July 6, 1998	Gold Creek	Fingerling	121,274	178/lb	Adcwt
July 20, 1998	Gray Wolf Acclimation Pond	0+Smolt	217,100	89/lb	Adcwt
July 25, 1998	Dungeness Hatchery	0+Smolt	236,100	140/lb	Blank Wire
August 1, 1998	Dungeness Hatchery	0+Smolt	183,477	90/lb	Blank Wire
August 8, 1998	Dungeness Hatchery	0+Smolt	254,390	111/lb	Blank Wire
Total Number Released			2,049,895		

Dungeness Chinook Captive Brood Program
Marks and Releases for the 1998 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
June 1, 1999	Gray Wolf River Bridge	Fingerling	24,000	269/lb	Otolith 2+Strontium
June 21, 1999	Gray Wolf River Bridge	Fingerling	393,600	370/lb	Otolith 2
June 29, 1999	Gray Wolf Acclimation Pond	Fingerling	360,000	297/lb	Otolith 1
August 3, 1999	Gray Wolf River Bridge	0+smolt	106,032	122/lb	Cwt only
August 6, 1999	Gray Wolf River Bridge	0+smolt	106,241	122/lb	Adcwt
August 3, 1999	Gray Wolf Acclimation Pond	0+smolt	103,006	97/lb	Adcwt
August 3, 1999	Gray Wolf Acclimation Pond	0+smolt	105,823	97/lb	Cwt only
August 11, 1999	Dungeness Hatchery	0+Smolt	272,000	115/lb	Blank Wire
August 20, 1999	Dungeness Hatchery	0+Smolt	144,700	115/lb	Blank Wire
August 20, 1999	Dungeness Hatchery	0+Smolt	159,800	99/lb	Blank Wire
Total Number Released			1,775,202		

Dungeness Chinook Captive Brood Program
 Marks and Releases for the 1999 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
May 30, 2000	Gray Wolf River Bridge	Fingerling	55,600	384/lb	Otolith 2+Strontium
June 9, 2000	Dungeness Forks	Fingerling	45,780	307/lb	Otolith 2
June 11, 2000	Gray Wolf River Bridge	Fingerling	30,880	307/lb	Otolith 2
June 26, 2000	Gray Wolf Acclimation Pond	Fingerling	381,700	192/lb	Otolith 1
June 27, 2000	Dungeness Forks	Fingerling	115,397	167/lb	Otolith 2+Strontium
June 27, 2000	Gray Wolf River Bridge	Fingerling	53,941	167/lb	Otolith 2+Strontium
July 18, 2000	Dungeness Forks	0+Smolt	99,955	131/lb	Cwt only
July 18, 2000	Dungeness Forks	0+Smolt	99,945	131/lb	Adcwt
July 21, 2000	Gray Wolf Acclimation Pond	0+Smolt	99,215	91/lb	Cwt only
July 21, 2000	Gray Wolf Acclimation Pond	0+Smolt	101,521	91/lb	Adcwt
August 11, 2000	Dungeness Hatchery	0+Smolt	220,802	109/lb	Blank Wire
August 18, 2000	Dungeness Hatchery	0+Smolt	182,336	86/lb	Blank Wire
August 18, 2000	Dungeness Hatchery	Fingerling	14,044	282/lb	No mark
Total Number Released			1,501,116		

Dungeness Chinook Captive Brood Program
 Marks and Releases for the 2000 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
June 18, 2001	Gray Wolf River Bridge	Fingerling	131,000	440/lb	Otolith 2
June 25, 2001	Dungeness/Gold Creek	Fingerling	69,000	288/lb	Otolith 2
June 26, 2001	Dungeness Forks	Fingerling	184,000	377/lb	No mark
June 27, 2001	Gray Wolf River Bridge	Fingerling	125,900	377/lb	No mark
July 6, 2001	Grey Wolf Acclimation Pond	Fingerling	332,000	176/lb	Otolith 1
July 18, 2001	Dungeness Forks	0+Smolt	148,600	100/lb	Ad only
July 26, 2001	Dungeness Forks	0+Smolt	196,000	121/lb	Otolith 2
July 31, 2001	Dungeness Hatchery	Fingerling	21,400	350/lb	Ad only
August 09, 2001	Grey Wolf River	0+Smolt	102,300	97/lb	Ad Cwt
August 09, 2001	Grey Wolf River	0+Smolt	102,500	97/lb	Cwt only
August 23, 2001	Dungeness Hatchery	Fingerling	19,875	300/lb	No mark
September, 2001	Dungeness Hatchery	0+Smolt	648,000	94/lb	Blank Wire
Total Number Released			2,080,575		

Dungeness Chinook Captive Brood Program
 Marks and Releases for the 2001 Brood Year

Date of Release	Release Location	Life Stage At Release	Number Released	Size at Release	Type of Mark
May 30, 2002	Grey Wolf Acclimation Pond	0+Smolt	102,000	64/lb	Cwt only
June 19, 2002	Grey Wolf Acclimation Pond	Fingerling	413,100	227/lb	Otolith 1
July 1, 2002	Gray Wolf River Bridge	Fingerling	204,900	222/lb	Otolith 2
July 1, 2002	Dungeness Forks	Fingerling	213,100	318/lb	Otolith 2
Oct 2, 2002	Dungeness Hatchery	0+Smolt	101,510	38/lb	Ad+Cwt
Oct 2, 2002	Dungeness Hatchery	0+Smolt	102,490	38/lb	Cwt only
Oct 2, 2002	Dungeness Hatchery	0+Smolt	3,300	85/lb	No mark
Total Number Released			1,140,400		

100 K release 2001 brood in 4-2003.

WDFW Elwha and Morse Creek Program

Brood Year 2002 to BY 2005

Adults returning potential egg production available	200-500 1,250,000	cfs	500-750 1,875,000	cfs	750-1000 2,500,000	cfs	1000-2000 5,000,000	cfs	2000-4000 10,000,000	cfs	4000+ 20,000,000	cfs
Captive brood	500	1.56	500	1.56	500	1.56	500	1.56	500	1.56	500	1.56
Yearling WDFW <i>10fpp</i>	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25
Zero age WDFW <i>80fpp</i>	550,000	5.22	800,000	7.59	800,000	7.59	2,300,000	21.82	3,000,000	28.46	3,000,000	28.46
Total		15.03		17.4		17.4		31.63		38.27		38.27
Morse Creek Yearlings <i>10fpp</i>	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25
Morse Creek Fingerlings <i>80fpp</i>			125,000	1.19	125,000	1.19	125,000	1.19	125,000	1.19	125,000	1.19
Total		8.25		9.44		9.44		9.44		9.44		9.44

Brood Year 2006 to BY 2009

Adults returning potential egg production available	200-500 1,250,000	cfs	500-750 1,875,000	cfs	750-1000 2,500,000	cfs	1000-2000 5,000,000	cfs	2000-4000 10,000,000	cfs	4000+ 20,000,000	cfs
Captive brood	500	1.56	500	1.56	500	1.56	500	1.56	500	1.56	500	1.56
Yearling WDFW <i>10fpp</i>	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25
Zero age WDFW <i>80fpp</i>	550,000	5.22	550,000	5.22	600,000	5.69	1,900,000	18.03	2,200,000	20.87	2,200,000	20.87
Zero age upstream <i>80fpp</i>			250,000	2.37	250,000	2.37	500,000	4.74	750,000	7.12	750,000	7.12
Total		15.03		17.4		17.87		32.58		37.8		37.8
Morse Creek Yearlings <i>10fpp</i>	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25
Morse Creek Fingerlings <i>80fpp</i>			125,000	1.19	125,000	1.19	125,000	1.19	125,000	1.19	125,000	1.19
Total		8.25		9.44		9.44		9.44		9.44		9.44

Brood Year 2010 to BY 2017

Adults returning potential egg production available	200-500 1,250,000	cfs	500-750 1,875,000	cfs	750-1000 2,500,000	cfs	1000-2000 5,000,000	cfs	2000-4000 10,000,000	cfs	4000+ 20,000,000	cfs
Captive brood												
Yearling WDFW <i>10fpp</i>	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25	200,000	8.25
Zero age WDFW <i>80fpp</i>	500,000	4.74	550,000	5.22	600,000	5.69	2,000,000	18.98	2,200,000	20.87	2,200,000	20.87
Fry upstream <i>450fpp</i>					250,000	0.8	500,000	1.59	750,000	2.39	750,000	2.39
Zero age upstream <i>80fpp</i>			120,000	1.14	250,000	2.37	500,000	4.74	750,000	7.12	750,000	7.12
Yearling smolts upstream <i>10fpp</i>			100,000	4.12	200,000	8.24	200,000	8.24	200,000	8.24	200,000	8.24
Total		12.99		18.73		25.35		41.8		46.87		46.87
Morse Creek Yearlings	Morse Creek not in use for these brood years.											
Morse Creek Fingerlings												
Total												

The water budgets that are included here are for fish released at 450 fpp, 80 fpp and 10 fpp.
 This is based on a flow index of 0.9 lbs. of fish per gpm per inch of fish.
 gpm required = lbs. fish / (flow index x inch of fish)

For 450 fpp, inches = 1.72 and gpm required for each 100,000 fish = 222 lbs / (0.9 x 1.72) = 143 gpm = 0.32 cfs.

For 80 fpp, inches = 3.26 and gpm required for each 100,000 fish = 1250 lbs / (0.9 x 3.26) = 426 gpm = .95 cfs.

For 10 fpp, inches = 6.0 and gpm required for each 100,000 fish = 10,000 lbs / (0.9 x 6.0) = 1851 gpm = 4.12 cfs.