

**FWS COLUMBIA RIVER 2009 CHINOOK MASS MARKING**

1/23/2009

Species: Chinook  
Area: Columbia River  
Brood: 2008  
Release Year: 2009 and 2010  
Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unc clipped	Ad Clipped	Unc clipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	360,000	0	9,790,000	0	10,510,000	Y	Y	Numbers reduced under Spring Creek Reprogramming
FWS	Little White Salmon NFH	Little White Salmon - Tule Falls	150,000	0	1,550,000	0	1,700,000	Y	N	New program, part of Spring Creek Reprogramming
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	200,000	1,600,000	0	2,000,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	0	1,500,000	0	1,700,000	Y	N	YN-Prosser release
<b>Total Fall Chinook</b>			<b>910,000</b>	<b>560,000</b>	<b>14,440,000</b>	<b>0</b>	<b>15,910,000</b>			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,045,000	0	1,120,000	Y	Y	Walla Walla R. release
FWS	Carson NFH	Carson - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Hood River release, new program
FWS	Willard NFH	Willard - Springs 1+	50,000	0	0	0	50,000	Y	N	Drano Lake release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	400,000	0	475,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	475,000	0	550,000	Y	Y	White River/Wenatchee restoration program
FWS	Warm Springs NFH	Warm Springs - Springs 1+	0	85,000	0	0	85,000	N	N	
FWS	Leavenworth NFH	Leavenworth - Springs 1+	200,000	0	1,000,000	0	1,200,000	Y	Y	Program reduction from 1.625 M
FWS	Winthrop NFH	Methow - Springs 1+	0	500,000	0	0	500,000	N	N	Restoration program
FWS	Kooskia NFH	Kooskia - Springs 1+	110,000	0	540,000	0	650,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
<b>Total Spring Chinook</b>			<b>1,430,000</b>	<b>585,000</b>	<b>4,590,000</b>	<b>0</b>	<b>6,605,000</b>			
<b>Total Chinook</b>			<b>2,340,000</b>	<b>1,145,000</b>	<b>19,030,000</b>	<b>0</b>	<b>22,515,000</b>			

**Total Chinook Production 22,515,000**  
**Total Percent Marked 95%**

**FWS COLUMBIA RIVER 2008 CHINOOK MASS MARKING**

1/15/2008

Species: Chinook  
 Area: Columbia River  
 Brood: 2007  
 Release Year: 2008 and 2009  
 Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	450,000	450,000	14,200,000	0	15,100,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	200,000	1,600,000	0	2,000,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	0	0	650,000	850,000	N	N	YN-Prosser release, broodstock shortfall, ~1/2 of normal 1.7M program
WDFW	Priest Rapids	Priest Rapids - URB Falls	0	0	0	0	0	N	N	Broodstock shortfall, no fish for program in 2008
<b>Total Fall Chinook</b>			<b>850,000</b>	<b>650,000</b>	<b>15,800,000</b>	<b>650,000</b>	<b>17,950,000</b>			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,095,000	0	1,170,000	Y	Y	
FWS	Willard NFH	Little White Salmon - Springs 1+	50,000	0	400,000	0	450,000	Y	Y	Drano Lake release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	475,000	0	550,000	Y	Y	
FWS	Little White Salmon NFH	White River - Wenatchee Springs 1+	0	150,000	0	0	150,000	N	N	White River restoration program
FWS	Carson NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Warm Springs NFH	Warm Springs - Springs 1+	750,000	0	0	0	750,000	Y	Y	Fish loss, production will be lower
FWS	Leavenworth NFH	Leavenworth - Springs 1+	200,000	0	1,425,000	0	1,625,000	Y	Y	
FWS	Entiat NFH	Entiat - Springs 1+	0	0	0	0	0	N	Y	Spring Chinook program discontinued
FWS	Winthrop NFH	Methow - Springs 1+	0	600,000	0	0	600,000	N	N	Restoration program
FWS	Kooskia NFH	Kooskia NFH - Springs 1+	125,000	0	475,000	0	600,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
<b>Total Spring Chinook</b>			<b>1,445,000</b>	<b>750,000</b>	<b>5,000,000</b>	<b>0</b>	<b>7,195,000</b>			
<b>Total Chinook</b>			<b>2,295,000</b>	<b>1,400,000</b>	<b>20,800,000</b>	<b>650,000</b>	<b>25,145,000</b>			
<b>Total Chinook Production</b>			<b>25,145,000</b>							
<b>Total Percent Marked</b>			<b>92%</b>							

# FWS COLUMBIA RIVER 2007 CHINOOK MASS MARKING

1/26/2007

Species: Chinook  
 Area: Columbia River  
 Brood: 2006  
 Release Year: 2007 and 2008

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	450,000	450,000	14,200,000	0	15,100,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	200,000	1,600,000	0	2,000,000	Y	Y	Decision pending, funding uncertain
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	0	0	1,500,000	1,700,000	N	N	YN-Prosser release
WDFW	Priest Rapids	Priest Rapids - URB Falls	0	0	1,700,000	0	1,700,000	N	Y	Marking not planned in 2007
<b>Total Fall Chinook</b>			<b>850,000</b>	<b>650,000</b>	<b>17,500,000</b>	<b>1,500,000</b>	<b>20,500,000</b>			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,095,000	0	1,170,000	Y	Y	
FWS	Willard NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Drano Lake release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	675,000	0	750,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Warm Springs NFH	Warm Springs - Springs 1+	750,000	0	0	0	750,000	Y	Y	Fish loss, production will be lower
FWS	Leavenworth NFH	Leavenworth - Springs 1+	400,000	0	1,225,000	0	1,625,000	Y	Y	
FWS	Entiat NFH	Entiat - Springs 1+	100,000	0	300,000	0	400,000	Y	Y	
FWS	Winthrop NFH	Methow - Springs 1+	0	600,000	0	0	600,000	N	N	Restoration program
FWS	Kooskia NFH	Kooskia NFH - Springs 1+	100,000	0	500,000	0	600,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
<b>Total Spring Chinook</b>			<b>1,720,000</b>	<b>600,000</b>	<b>5,125,000</b>	<b>0</b>	<b>7,445,000</b>			
<b>Total Chinook</b>			<b>2,570,000</b>	<b>1,250,000</b>	<b>22,625,000</b>	<b>1,500,000</b>	<b>27,945,000</b>			
<b>Total Chinook Production</b>			<b>27,945,000</b>							
<b>Total Percent Marked</b>			<b>90%</b>							

**FWS COLUMBIA RIVER 2006 CHINOOK MASS MARKING**

2/6/2006

Species: Chinook  
 Area: Columbia River  
 Brood: 2005  
 Release Year: 2006 and 2007

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	450,000	450,000	14,100,000	0	15,000,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	200,000	1,600,000	0	2,000,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	0	0	1,500,000	1,700,000	N	N	YN-Prosser release
WDFW	Priest Rapids	Priest Rapids - URB Falls	0	0	1,700,000	0	1,700,000	Y	N	Marked by FWS
<b>Total Fall Chinook</b>			<b>850,000</b>	<b>650,000</b>	<b>17,400,000</b>	<b>1,500,000</b>	<b>20,400,000</b>			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,095,000	0	1,170,000	Y	Y	
FWS	Willard NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Drano L. rel. (from Carson in '05)
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	675,000	0	750,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	40,000	0	170,000	0	210,000	Y	Y	Umatilla R. release
FWS	Warm Spings NFH	Warm Springs - Springs 1+	750,000	0	0	0	750,000	Y	Y	
FWS	Leavenworth NFH	Leavenworth - Springs 1+	800,000	0	825,000	0	1,625,000	Y	Y	
FWS	Entiat NFH	Entiat - Springs 1+	400,000	0	0	0	400,000	Y	Y	
FWS	Winthrop NFH	Methow - Springs 1+	0	600,000	0	0	600,000	N	N	Restoration program
FWS	Kooskia NFH	Kooskia NFH - Springs 1+	100,000	0	500,000	0	600,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
<b>Total Spring Chinook</b>			<b>2,460,000</b>	<b>600,000</b>	<b>4,595,000</b>	<b>0</b>	<b>7,655,000</b>			
<b>Total Chinook</b>			<b>3,310,000</b>	<b>1,250,000</b>	<b>21,995,000</b>	<b>1,500,000</b>	<b>28,055,000</b>			
<b>Total Chinook Production</b>			<b>28,055,000</b>							
<b>Total Percent Marked</b>			<b>90%</b>							

**FWS COLUMBIA RIVER 2005 CHINOOK MASS MARKING**

4/27/2005

Species: Chinook  
 Area: Columbia River  
 Brood: 2004  
 Release Year: 2005 and 2006

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	450,000	450,000	14,100,000	0	15,000,000	Y	N	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	200,000	1,600,000	0	2,000,000	Y	N	
FWS	Little White Salmon NFH	Little White Salmon - URB Falls	200,000	0	0	1,500,000	1,700,000	N	N	YN-Prosser Release
WDFW	Priest Rapids	Priest Rapids - URB Falls	0	0	0	1,700,000	1,700,000	N	N	Marked by FWS
<b>Total Fall Chinook</b>			<b>850,000</b>	<b>650,000</b>	<b>15,700,000</b>	<b>3,200,000</b>	<b>20,400,000</b>			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,095,000	0	1,170,000	Y	Y	
FWS	Carson NFH	Carson - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Drano Lake Release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	675,000	0	750,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. Release
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	40,000	0	170,000	0	210,000	Y	Y	Umatilla R. Release
FWS	Warm Spings NFH	Warm Springs - Springs 1+	750,000	0	0	0	750,000	Y	Y	
FWS	Leavenworth NFH	Leavenworth - Springs 1+	800,000	0	825,000	0	1,625,000	Y	Y	
FWS	Entiat NFH	Entiat - Springs 1+	400,000	0	0	0	400,000	Y	Y	
FWS	Winthrop NFH	Methow - Springs 1+	0	600,000	0	0	600,000	N	N	
FWS	Kooskia NFH	Kooskia NFH - Springs 1+	100,000	0	500,000	0	600,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
<b>Total Spring Chinook</b>			<b>2,460,000</b>	<b>600,000</b>	<b>4,595,000</b>	<b>0</b>	<b>7,655,000</b>			
<b>Total Chinook</b>			<b>3,310,000</b>	<b>1,250,000</b>	<b>20,295,000</b>	<b>3,200,000</b>	<b>28,055,000</b>			
<b>Total Chinook Production</b>			<b>28,055,000</b>							
<b>Total Percent Marked</b>			<b>84%</b>							

# FWS NORTH COAST AND PUGET SOUND 2009 CHINOOK MASS MARKING

2/5/2009

Species: Chinook  
 Area: North Coast and Puget Sound  
 Brood: 2008  
 Release Year: 2009

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Sooes River Falls	260,000	0	1,940,000	0	2,200,000	Y	Y	
FWS	Quinault NFH	Cook Creek/Quinault Falls	200,000	0	400,000	0	600,000	Y	Y	
<b>Total Chinook</b>			<b>460,000</b>	<b>0</b>	<b>2,340,000</b>	<b>0</b>	<b>2,800,000</b>			
<b>Total Chinook Production</b>			<b>2,800,000</b>							
<b>Total Percent Marked</b>			<b>100%</b>							

**FWS NORTH COAST AND PUGET SOUND 2008 CHINOOK MASS MARKING**

2/5/2009

Species: Chinook  
 Area: North Coast and Puget Sound  
 Brood: 2007  
 Release Year: 2008  
 Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Sooes River Falls	260,000	0	240,000	0	500,000	Y	Y	Shortfall from normal 2.4M program.
FWS	Quinalt NFH	Cook Creek/Quinalt Falls	200,000	0	400,000	0	600,000	Y	Y	
<b>Total Chinook</b>			<b>460,000</b>	<b>0</b>	<b>640,000</b>	<b>0</b>	<b>1,100,000</b>			
<b>Total Chinook Production</b>			<b>1,100,000</b>							
<b>Total Percent Marked</b>			<b>100%</b>							

**FWS NORTH COAST AND PUGET SOUND 2007 CHINOOK MASS MARKING**

1/26/2007

Species: Chinook  
 Area: North Coast and Puget Sound  
 Brood: 2006  
 Release Year: 2007

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah Falls	260,000	0	1,940,000	0	2,200,000	Y	Y	Decision pending, funding uncertain
FWS	Makah NFH	Makah Falls	0	0	100,000	0	100,000	Y	Y	Educket Cr. release, funding uncertain
FWS	Quinault NFH	Quinault Falls	200,000	0	400,000	0	600,000	Y	Y	Decision pending, funding uncertain
<b>Total Chinook</b>			<b>460,000</b>	<b>0</b>	<b>2,440,000</b>	<b>0</b>	<b>2,900,000</b>			
<b>Total Chinook Production</b>			<b>2,900,000</b>							
<b>Total Percent Marked</b>			<b>100%</b>							



**FWS NORTH COAST AND PUGET SOUND 2006 CHINOOK MASS MARKING**

2/6/2006

Species: Chinook  
 Area: North Coast and Puget Sound  
 Brood: 2005  
 Release Year: 2006

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah Falls	260,000	0	1,940,000	0	2,200,000	Y	Y	
FWS	Makah NFH	Makah Falls	0	0	100,000	0	100,000	Y	Y	Educket Cr. Release
FWS	Quinault NFH	Quinault Falls	200,000	0	400,000	0	600,000	Y	Y	
<b>Total Chinook</b>			<b>460,000</b>	<b>0</b>	<b>2,440,000</b>	<b>0</b>	<b>2,900,000</b>			
<b>Total Chinook Production</b>					<b>2,900,000</b>					
<b>Total Percent Marked</b>					<b>100%</b>					

**FWS NORTH COAST AND PUGET SOUND 2005 CHINOOK MASS MARKING**

4/27/2005

Species: Chinook  
 Area: North Coast and Puget Sound  
 Brood: 2004  
 Release Year: 2005

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah	260,000	0	1,940,000	0	2,200,000	Y	N	
FWS	Makah NFH	Makah	0	0	100,000	0	100,000	Y	N	Educket Cr. Release
FWS	Quinalt NFH	Quinalt	200,000	0	400,000	0	600,000	Y	N	
<b>Total Chinook</b>			<b>460,000</b>	<b>0</b>	<b>2,440,000</b>	<b>0</b>	<b>2,900,000</b>			
<b>Total Chinook Production</b>			<b>2,900,000</b>							
<b>Total Percent Marked</b>			<b>100%</b>							

**FWS COLUMBIA RIVER 2009 COHO MASS MARKING**

1/23/2009

Species: Coho  
 Area: Columbia River  
 Brood: 2008  
 Release Year: 2010

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	25,000	300,000	0	350,000	Y	Y	
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	0	125,000	0	150,000	Y	Y	CEDC Youngs Bay release
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	30,000	0	245,000	275,000	N	N	Clear Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	30,000	0	245,000	275,000	N	N	Lapwai Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	0	450,000	0	450,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee - 1+	0	550,000	0	0	550,000	N	N	Wenatchee R. Release - YN restoration
ODFW	Cascade Hatchery	Wenatchee - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - (Tagged by FWS) YN restoration
FWS	Entiat NFH	Wenatchee - 1+	50,000	200,000	0	0	250,000	N	N	YN restoration program
FWS	Winthrop NFH	Wenatchee - 1+	0	250,000	0	0	250,000	N	N	YN restoration program
<b>Total Coho</b>			<b>100,000</b>	<b>1,785,000</b>	<b>875,000</b>	<b>490,000</b>	<b>3,250,000</b>			
<b>Total Coho Production</b>			<b>3,250,000</b>							
<b>Total Percent Marked</b>			<b>30%</b>							

**FWS COLUMBIA RIVER 2008 COHO MASS MARKING**

1/15/2008

Species: Coho  
 Area: Columbia River  
 Brood: 2007  
 Release Year: 2009

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	25,000	350,000	0	400,000	Y	Y	
FWS	Eagle Creek NFH	Eagle Creek - 1+	30,000	30,000	0	215,000	275,000	N	N	Potlatch R. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek - 1+	30,000	30,000	0	215,000	275,000	N	N	Lapwai Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	0	450,000	0	450,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee - 1+	0	1,000,000	0	0	1,000,000	N	N	Wenatchee R. Release - YN restoration
ODFW	Cascade Hatchery	Wenatchee - 1+	0	950,000	0	0	950,000	N	N	Wen. R. Rel. - (Tagged by FWS) YN restoration
FWS	Entiat NFH	Wenatchee - 1+	0	200,000	50,000	0	250,000	N	N	YN restoration program
FWS	Winthrop NFH	Wenatchee - 1+	0	500,000	0	0	500,000	N	N	YN restoration program
FWS	Kooskia NFH	Dworshak - 1+	0	120,000	0	160,000	280,000	N	N	NPT restoration program
<b>Total Coho</b>			<b>85,000</b>	<b>2,855,000</b>	<b>850,000</b>	<b>590,000</b>	<b>4,380,000</b>			
<b>Total Coho Production</b>			<b>4,380,000</b>							
<b>Total Percent Marked</b>			<b>21%</b>							

**FWS COLUMBIA RIVER 2007 COHO MASS MARKING**

1/26/2007

Species: Coho  
 Area: Columbia River  
 Brood: 2006  
 Release Year: 2008

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	25,000	450,000	0	500,000	Y	Y	
FWS	Eagle Creek NFH	Eagle Creek - 1+	60,000	60,000	0	155,000	275,000	N	N	Potlatch R. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	60,000	60,000	0	155,000	275,000	N	N	Lapwai Cr. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	0	500,000	0	500,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee - 1+	0	550,000	0	0	550,000	N	N	Wenatchee R. Release - YN
ODFW	Cascade Hatchery	Wenatchee - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - YN (Tagged by FWS)
YN	Prosser Hatchery	Yakima - 1+	0	0	0	500,000	500,000	N	N	LV Clip - YN (Marked by FWS)
FWS	Winthrop NFH	Wenatchee - 1+	0	250,000	0	0	250,000	N	N	YN restoration program
FWS	Kooskia NFH	Dworshak - 1+	0	120,000	0	160,000	280,000	N	N	NPT restoration program
<b>Total Coho</b>			<b>145,000</b>	<b>1,765,000</b>	<b>950,000</b>	<b>970,000</b>	<b>3,830,000</b>			
<b>Total Coho Production</b>			<b>3,830,000</b>							
<b>Total Percent Marked</b>			<b>29%</b>							

**FWS COLUMBIA RIVER 2006 COHO MASS MARKING**

2/6/2006

Species: Coho  
 Area: Columbia River  
 Brood: 2005  
 Release Year: 2007

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	25,000	450,000	0	500,000	Y	Y	
FWS	Eagle Creek NFH	Eagle Creek - 1+	50,000	50,000	0	175,000	275,000	N	N	Potlatch R. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	50,000	50,000	0	175,000	275,000	N	N	Lapwai Cr. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	0	600,000	0	600,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee - 1+	0	550,000	0	0	550,000	N	N	Wenatchee R. Release - YN
ODFW	Cascade Hatchery	Wenatchee - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - YN (Tagged by FWS)
YN	Prosser Hatchery	Yakima - 1+	0	0	0	500,000	500,000	N	N	LV Clip - YN (Marked by FWS)
FWS	Winthrop NFH	Wenatchee - 1+	0	250,000	0	0	250,000	N	N	YN restoration program
FWS	Kooskia NFH	Dworshak - 1+	0	120,000	0	160,000	280,000	N	N	NPT restoration program
<b>Total Coho</b>			<b>125,000</b>	<b>1,745,000</b>	<b>1,050,000</b>	<b>1,010,000</b>	<b>3,930,000</b>			
<b>Total Coho Production</b>			<b>3,930,000</b>							
<b>Total Percent Marked</b>			<b>30%</b>							

**FWS COLUMBIA RIVER 2005 COHO MASS MARKING**

4/27/2005

Species: Coho  
 Area: Columbia River  
 Brood: 2004  
 Release Year: 2006

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	25,000	450,000	0	500,000	Y	Y	
FWS	Eagle Creek NFH	Eagle Creek - 1+	50,000	50,000	0	175,000	275,000	N	N	Potlatch R. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	50,000	50,000	0	175,000	275,000	N	N	Lapwai Cr. Release - NPT
FWS	Eagle Creek NFH	Eagle Creek - 1+	0	0	600,000	0	600,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee - 1+	300,000	300,000	0	0	600,000	N	N	Wenatchee R. Release - YN
ODFW	Cascade Hatchery	Wenatchee - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - YN (Tagged by FWS)
YN	Prosser Hatchery	Yakima - 1+	0	0	0	500,000	500,000	N	N	LV Clip - YN (Marked by FWS)
FWS	Winthrop NFH	Wenatchee - 1+	0	200,000	0	0	200,000	N	N	YN
FWS	Kooskia NFH	Dworshak - 1+	0	120,000	0	160,000	280,000	N	N	NPT
<b>Total Coho</b>			<b>425,000</b>	<b>1,445,000</b>	<b>1,050,000</b>	<b>1,010,000</b>	<b>3,930,000</b>			
<b>Total Coho Production</b>			<b>3,930,000</b>							
<b>Total Percent Marked</b>			<b>38%</b>							

**FWS NORTH COAST AND PUGET SOUND 2009 COHO MASS MARKING**

2/5/2009

Species: Coho  
 Area: North Coast and Puget Sound  
 Brood: 2008  
 Release Year: 2010

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Sooes River	0	0	40,000	0	40,000	Y	Y	Educket Creek program
FWS	Makah NFH	Sooes River	40,000	40,000	160,000	0	240,000	Y	Y	
FWS	Quinault NFH	Cook Creek	80,000	80,000	500,000	0	660,000	Y	Y	
FWS	Quicene NFH	Big Quilcene River	40,000	40,000	320,000	0	400,000	Y	Y	
FWS	Quicene NFH	Big Quilcene River	45,000	0	155,000	0	200,000	Y	Y	Quilcene Bay Net Pens
<b>Total Coho</b>			<b>205,000</b>	<b>160,000</b>	<b>1,175,000</b>	<b>0</b>	<b>1,540,000</b>			
<b>Total Coho Production</b>					<b>1,540,000</b>					
<b>Total Percent Marked</b>					<b>90%</b>					



**FWS NORTH COAST AND PUGET SOUND 2008 COHO MASS MARKING**

2/5/2009

Species: Coho  
 Area: North Coast and Puget Sound  
 Brood: 2007  
 Release Year: 2009

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Sooes River	0	0	40,000	0	40,000	Y	Y	Educket Creek program
FWS	Makah NFH	Sooes River	40,000	40,000	160,000	0	240,000	Y	Y	
FWS	Quinault NFH	Cook Creek	80,000	80,000	500,000	0	660,000	Y	Y	
FWS	Quicene NFH	Big Quilcene River	40,000	40,000	320,000	0	400,000	Y	Y	
FWS	Quicene NFH	Big Quilcene River	45,000	0	155,000	0	200,000	Y	Y	Quilcene Bay Net Pens
<b>Total Coho</b>			<b>205,000</b>	<b>160,000</b>	<b>1,175,000</b>	<b>0</b>	<b>1,540,000</b>			
<b>Total Coho Production</b>					<b>1,540,000</b>					
<b>Total Percent Marked</b>					<b>90%</b>					

**FWS NORTH COAST AND PUGET SOUND 2007 COHO MASS MARKING**

1/26/2007

Species: Coho  
 Area: North Coast and Puget Sound  
 Brood: 2006  
 Release Year: 2008

Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah	40,000	40,000	120,000	0	200,000	Y	Y	
FWS	Makah NFH	Makah	0	0	40,000	0	40,000	Y	Y	Educket Cr. release
FWS	Quinault NFH	Quinault	80,000	80,000	500,000	0	660,000	Y	Y	
FWS	Quicene NFH	Quilcene	48,000	48,000	304,000	0	400,000	Y	Y	
FWS	Quicene NFH	Quilcene	45,000	0	155,000	0	200,000	Y	Y	Quilcene Bay release
<b>Total Coho</b>			<b>213,000</b>	<b>168,000</b>	<b>1,119,000</b>	<b>0</b>	<b>1,500,000</b>			
<b>Total Coho Production</b>					<b>1,500,000</b>					
<b>Total Percent Marked</b>					<b>89%</b>					

**FWS NORTH COAST AND PUGET SOUND 2006 COHO MASS MARKING**

2/6/2006

Species: Coho  
 Area: North Coast and Puget Sound  
 Brood: 2005  
 Release Year: 2007  
 Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah	40,000	40,000	120,000	0	200,000	Y	Y	
FWS	Makah NFH	Makah	0	0	40,000	0	40,000	Y	Y	Educket Cr. Release
FWS	Quinalt NFH	Quinalt	80,000	80,000	500,000	0	660,000	Y	Y	
FWS	Quicene NFH	Quilcene	48,000	48,000	304,000	0	400,000	Y	Y	
FWS	Quicene NFH	Quilcene	45,000	0	155,000	0	200,000	Y	Y	Quilcene Bay Release
<b>Total Coho</b>			<b>213,000</b>	<b>168,000</b>	<b>1,119,000</b>	<b>0</b>	<b>1,500,000</b>			
<b>Total Coho Production</b>			<b>1,500,000</b>							
<b>Total Percent Marked</b>			<b>89%</b>							

**FWS NORTH COAST AND PUGET SOUND 2005 COHO MASS MARKING**

4/27/2005

Species: Coho  
 Area: North Coast and Puget Sound  
 Brood: 2004  
 Release Year: 2006

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped				
FWS	Makah NFH	Makah	40,000	40,000	170,000	0	250,000	Y	Y	
FWS	Makah NFH	Makah	0	0	50,000	0	50,000	Y	Y	Educket Cr. Release
FWS	Quinault NFH	Quinault	80,000	80,000	440,000	0	600,000	Y	Y	
FWS	Quinault NFH	Quinault	0	0	60,000	0	60,000	Y	Y	Camp 7 Pond Release
FWS	Quilcene NFH	Quilcene	48,000	48,000	304,000	0	400,000	Y	Y	
FWS	Quilcene NFH	Quilcene	45,000	0	155,000	0	200,000	Y	Y	Quilcene Bay Release
<b>Total Coho</b>			<b>213,000</b>	<b>168,000</b>	<b>1,179,000</b>	<b>0</b>	<b>1,560,000</b>			
<b>Total Coho Production</b>			<b>1,560,000</b>							
<b>Total Percent Marked</b>			<b>89%</b>							

**California Department of Fish and Game Update on Constant Fractional Marking/Tagging Program for Central Valley and Klamath River Fall-run Chinook Salmon**

Over 32 million fall-run Chinook salmon are produced each year at five hatcheries in California's Central Valley. This production contributes to major sport and commercial fisheries in ocean and inland areas. Until 2007, only experimental releases of fall-run Chinook were externally marked and coded-wire tagged.

In 2006, the CALFED Ecosystem Restoration Program provided funding to begin implementation of the Central Valley Constant Fractional Marking (CFM) program. The initial contract provided funding to Pacific States Marine Fisheries Commission (PSMFC) for the purchase of four automated tagging systems and the first two years of operating costs for marking/tagging production releases of fall-run Chinook salmon at the five major Central Valley hatcheries (in 2007 and 2008). The program includes fall-run Chinook produced at Coleman National Fish Hatchery, Feather River Hatchery, Feather River Hatchery Annex, Nimbus Hatchery, and Mokelumne River Hatchery.

Four state-of-the-art automated tagging trailers were purchased for the program in late 2006 and early 2007 from Northwest Marine Technology. The program successfully processed 100% of the 2007 production releases of fall-run Chinook salmon from the Central Valley hatcheries (Brood Year 2006). A total of 8,154,552 fall-run Chinook was coded-wire tagged and adipose fin-clipped, and 24,472,824 were counted for a total of 32,627,376 processed at the five Central Valley hatcheries.

The program also successfully processed 100% of the 2008 production releases of fall-run Chinook salmon from the Central Valley hatcheries (Brood Year 2007). A total of 7,931,543 fall-run Chinook was coded-wire tagged and adipose fin-clipped, and 23,654,760 were counted for a total of 31,586,303 processed at the five Central Valley hatcheries.

The program is continuing this spring. Marking/tagging was initiated in early February and will end in May. Beginning this year, program operating costs are being funded by the hatchery mitigation agencies, U.S. Bureau of Reclamation, East Bay Municipal Utility District, and Department of Water Resources.

Iron Gate Hatchery, on the Klamath River, received an automated tagging trailer (Northwest Marine Technologies Mfg.) last month. This brings the total to five automated tagging trailers in the State of California. The trailer and tags for 2008 Brood Year fall-run Chinook was funded by 2006 Klamath Salmon Disaster Relief funds. Klamath River Project staff, assisted by PSMFC staff will be marking (adipose clip & CWT) 25% of the fall-run Chinook produced at the hatchery (6,000,000 fish). The tagging is dependent on the size of the fish and is expected to begin on April 20, 2009. There is a five-week window to tag approximately 1.5 million fish. The tight tagging window is due to the overlap of fish reaching an appropriate size to tag and when the best water quality is available in the Klamath at the release point ("just-right" water temperatures).

This tagging effort is a significant increase in tagging rates at Iron Gate Hatchery compared to previous efforts. Funding for a second trailer with tags and labor for the next 10 years is included in the Agreement in Principal with PacifiCorp.