



U.S. DEPARTMENT OF COMMERCE April 2011
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Pacific Islands Regional Office
1601 Kapiolani Blvd., Suite 1110
Honolulu, Hawaii 96814-4700
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FEB 18 2011

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FEB 25 2011

PFMC

Manuel Duenas, Chairperson
Western Pacific Fishery Management Council
1164 Bishop Street, Suite 1400
Honolulu, HI 96813

Eric Olson, Chairperson
North Pacific Fishery Management Council
605 West 4th Avenue, Suite 306
Anchorage, AK 99501-2252

Mark Cedergreen, Chairperson
Pacific Fishery Management Council
7700 NE Ambassador Place, Suite 101
Portland, OR 97220-1384

Dear Chairpersons Duenas, Olson, and Cedergreen:

I am writing to inform you of the outcomes of the Seventh Regular Session of the Western and Central Pacific Fisheries Commission (Commission), held in Honolulu, from December 6-10, 2010. The Western and Central Pacific Fisheries Convention Implementation Act (Act) authorizes the Secretary of Commerce, in consultation with the Secretary of State and the Department of Homeland Security, to promulgate such regulations as may be necessary to implement the decisions of the Commission.

By way of this letter, I would like to share NOAA Fisheries Service's initial assessment of the regulatory actions that will be needed to implement the recent decisions of the Commission, including identification of those decisions for which Council consideration and recommendations would be appropriate.

The Commission adopted several conservation and management measures (CMMs) and revised a number of existing measures that could affect the fisheries managed by the Councils. Each of these decisions is summarized below, along with an initial assessment of whether regulatory action is needed.



CMM for the Eastern High Seas Pocket Special Management Area

This measure applies to the area of the high seas bounded by the exclusive economic zones of the Cook Islands to the north and west, French Polynesia to the east and Kiribati to the northeast, and requires vessel operators to submit reports to the Commission with specific information, including catch data, at least six hours prior to entry and no later than six hours prior to exiting this area of the high seas. The measure seeks to reduce illegal, unreported, and unregulated fishing. Regulatory action appears to be needed to implement this measure. We intend to develop regulations to implement this measure under authority of the Act.

Revision to CMM 2005-02 South Pacific Albacore

This measure replaces CMM 2005-02. The changes require Commission members to report to the Commission the catch levels of fishing vessels that have taken South Pacific albacore as bycatch as well as the number and catch levels of vessels actively fishing for South Pacific albacore in the Convention Area south of 20° S. The information must be provided for the period 2000-2010 and then must be updated annually. The United States can meet the new requirements fully by including the required data, which is already collected from fishermen under existing regulations, in the annual reports provided to the Commission; thus no regulatory action is needed.

CMM for North Pacific Striped Marlin

This measure establishes catch limits for North Pacific striped marlin in the Convention Area north of the Equator. For 2011, each member's catch limit is a 10 percent reduction from its highest annual catch between 2000 and 2003. Although the measure includes catch limits for 2012 and 2013 and beyond, the measure will be amended in 2011 based on the stock assessment of North Pacific striped marlin scheduled for 2011 by the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean. Given that the U.S. catch of North Pacific striped marlin in the Convention Area has in recent years been below the catch limit for 2011, we intend to wait until the measure is amended in 2011, before determining whether regulatory action is needed to implement the measure.

Revision to CMM 2009-07 for Pacific Bluefin Tuna

This measure replaces CMM 2009-07, which established a limit on fishing effort for 2010 only. The measure establishes fishing effort limits for vessels that fish for Pacific bluefin tuna in the Convention area north of 20 degrees north for the years 2011 and 2012. Regulatory action is probably not needed because the United States does not have directed bluefin fisheries in the Convention Area, but this issue is certainly appropriate for Council consideration.

Revision to CMM 2009-04 for Sharks

This measure replaces CMM 2009-04. The measure adds hammerhead sharks (four species) and the porbeagle shark to the list of key shark species, for which fisheries reporting and other actions are required. No regulatory action is needed to implement these revisions.

In addition to considering these latest decisions of the Commission, the Councils, of course, are welcome to consider previous decisions of the Commission with respect to the fisheries under their respective authority.

Please let me know if you have any questions or concerns regarding implementation of Commission actions taken in 2010. I look forward to working with the Councils to implement the decisions of the Commission in a timely and efficient manner.

Sincerely,

A handwritten signature in black ink, appearing to read "M. D. Tosatto", with a stylized flourish at the end.

Michael D. Tosatto
Regional Administrator

cc: William Gibbons-Fly, U.S. Department of State
Lt. Cmdr. Jay Caputo, U.S. Coast Guard
Ufagafa Ray Tulafono, American Samoa Department of Marine and Wildlife Resources
John Joyner, CNMI Coastal Resources Management Office
Celestino Aguon, Guam Division of Aquatic and Wildlife Resources
Rod McInnis, NMFS Southwest Regional Office
William W. Stelle, Jr., NMFS Northwest Regional Office
James Balsiger, NMFS Alaska Regional Office

COUNCIL COORDINATION COMMITTEE

MAY 3-5, 2011

Doubletree Guest Suites Hotel

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<http://www.fisherycouncils.org/CCC/CCC.htm>

DRAFT AGENDA (as of March 25, 2011)

Tuesday, May 3

<u>Time</u>	<u>Discussion Item</u>	<u>Presenter(s)</u>
1:30 - 2:00	Welcome/Introductions	David Cupka Eric Schwaab
2:00 - 3:30	Council Reports on Status of Implementing Magnuson-Stevens Act Provisions and Other Current Activities of Interest <ul style="list-style-type: none">• Annual catch limits• Ending overfishing• Status of rebuilding plans• Catch shares• Problems/concerns/other issues	Chairmen/EDs
3:30 - 3:45	Break	
3:45 - 4:30	Council Reports Continued	Chairmen/EDs
4:30 - 5:30	Allocation of fishery resources	Sam Rauch Emily Menashes George Lapointe
5:30	Adjourn for the Day	

Wednesday, May 4

<u>Time</u>	<u>Discussion Item</u>	<u>Presenter(s)</u>
8:00 - 9:00	Budgets <ul style="list-style-type: none">• FY2011: status, Council funding• FY2012: update• Council competition for additional grant funds	Gary Reisner
9:00 - 9:30	Performance Measures Status	Galen Tromble
9:30 - 10:00	NEPA update and issues	Steve Leathery
10:00 - 10:30	Status report on E.O. 13563	Sam Rauch Caroline Park

COUNCIL COORDINATION COMMITTEE

Wednesday, May 4

<u>Time</u>	<u>Discussion Item</u>	<u>Presenter(s)</u>
10:30 - 10:45	Break	
10:45 - 12:00	National Bycatch Report	Samantha Brooke
12:00 - 1:30	Lunch	
1:30 - 2:30	National Catch Share Policy Status	Emily Menashes
2:30 - 3:30	MPA network <ul style="list-style-type: none">• Update• Council participation in MPA network	NMFS/Councils
3:30 - 3:45	Break	
3:45 - 4:45	MRIP/Recreational data <ul style="list-style-type: none">• Update• Using MRIP for recreational in-season adjustments	Gordon Calvin
4:45 - 5:30	Law Enforcement <ul style="list-style-type: none">• Update• NOAA GC penalty schedules	Alan Risenhoover
5:30	Adjourn for the Day	

Thursday, May 5

<u>Time</u>	<u>Discussion Item</u>	<u>Presenter(s)</u>
8:00 - 9:00	USCG Issues	TBD
9:00 - 10:15	National Ocean Council/Coastal and Marine Spatial Planning	Councils/NMFS
10:15 - 10:30	Break	
10:30 - 11:00	National SSC Workshop	Chris Moore

COUNCIL COORDINATION COMMITTEE

Thursday, May 5

<u>Time</u>	<u>Discussion Item</u>	<u>Presenter(s)</u>
11:00 - 12:00	Outreach <ul style="list-style-type: none">• NOAA Fisheries• RFMCs<ul style="list-style-type: none">➤ Individual Council efforts➤ Councils' Communications Committee➤ Managing Our Nations Fisheries III➤ Coordination with NOAA➤ Funding	Councils/NMFS
12:00 - 12:30	Other Business	David Cupka
12:30 - 1:00	Next annual CCC Meeting	David Cupka
1:00	Adjourn Meeting	

FWS COLUMBIA RIVER 2011 CHINOOK MASS MARKING

3/14/2011

Species: Chinook
Area: Columbia River
Brood: 2010
Release Year: 2011 and 2012
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	405,000	405,000	9,690,000	0	10,500,000	Y	Y	
FWS	Little White Salmon NFH	Spring Creek - Tule Falls	150,000	0	1,550,000	0	1,700,000	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	1,500,000	0	1,700,000	Y	Y	YN-Prosser release
Total Fall Chinook			955,000	605,000	14,340,000	0	15,900,000			
FWS	Entiat NFH	Entiat - Summers 1+	200,000	0	0	0	200,000	Y	Y	
Total Summer Chinook			200,000	0	0	0	200,000			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,045,000	0	1,120,000	Y	Y	
FWS	Carson NFH	Carson - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Carson NFH	Hood River - Springs 1+	50,000	0	0	0	50,000	Y	Y	Hood River release, new program in 2009
FWS	Willard NFH	Little White Salmon - Springs 1+	75,000	0	182,000	0	257,000	Y	Y	
FWS	Little White Salmon NFH	Little White Salmon - Springs 1+	75,000	0	693,000	0	768,000	Y	Y	
FWS	Little White Salmon NFH	White R. - Wenatchee Springs 1+	0	150,000	0	0	150,000	N	N	White River/Wenatchee R. ESA restoration program
FWS	Warm Springs NFH	Warm Springs - Springs 1+	500,000	0	0	0	500,000	Y	Y	
FWS	Leavenworth NFH	Leavenworth - Springs 1+	220,000	0	980,000	0	1,200,000	Y	Y	
FWS	Winthrop NFH	Methow - Springs 1+	200,000	400,000	0	0	600,000	Y	Y	Methow R. ESA restoration
FWS	Kooskia NFH	Kooskia - Springs 1+	100,000	0	500,000	50,000	650,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
Total Spring Chinook			1,465,000	550,000	4,530,000	50,000	6,595,000			
Total Chinook			2,620,000	1,155,000	18,870,000	50,000	22,695,000			
Total Chinook Production			22,695,000							
Total Percent Marked			95%							

FWS COLUMBIA RIVER 2010 CHINOOK MASS MARKING

1/8/2010

Species: Chinook
Area: Columbia River
Brood: 2009
Release Year: 2010 and 2011
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	360,000	360,000	9,790,000	0	10,510,000	Y	Y	Numbers reduced under Spr. Cr. Reprogramming
FWS	Little White Salmon NFH	Little White Salmon - Tule Falls	150,000	0	1,550,000	0	1,700,000	Y	Y	New release location under Spr. Cr. 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	Y	YN-Prosser release
Total Fall Chinook			910,000	560,000	14,440,000	0	15,910,000			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,045,000	0	1,120,000	Y	Y	
FWS	Carson NFH	Carson - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Carson NFH	Hood River - Springs 1+	50,000	0	0	0	50,000	Y	Y	Hood River release, new program in 2009
FWS	Willard NFH	Little White Salmon - Springs 1+	75,000	0	400,000	0	475,000	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 R. - Wenatchee Springs 1+	0	150,000	0	0	150,000	N	N	White River/Wenatchee restoration program
FWS	Warm Spings NFH	Warm Springs - Springs 1+	552,000	0	0	0	552,000	Y	Y	
FWS	Leavenworth NFH	Leavenworth - Springs 1+	220,000	0	980,000	0	1,200,000	Y	Y	Program reduction from 1.625 M
FWS	Winthrop NFH	Methow - Springs 1+	600,000	0	0	0	600,000	Y	N	AD marking started in 2010
FWS	Kooskia NFH	Kooskia - Springs 1+	100,000	0	625,000	0	725,000	Y	Y	
FWS	Dworshak NFH	Dworshak - Springs 1+	120,000	0	930,000	0	1,050,000	Y	Y	
Total Spring Chinook			1,917,000	150,000	4,655,000	0	6,722,000			
Total Chinook			2,827,000	710,000	19,095,000	0	22,632,000			
Total Chinook Production			22,632,000							
Total Percent Marked			97%							

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	Unclipped	Ad Clipped	Unclipped				
FWS	Spring Creek NFH	Spring Creek - Tule Falls	360,000	360,000	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	Y	New release location, part of Spr. Cr. 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
Total Fall Chinook			910,000	560,000	14,440,000	0	15,910,000			
FWS	Carson NFH	Carson - Springs 1+	75,000	0	1,045,000	0	1,120,000	Y	Y	
FWS	Carson NFH	Carson - Springs 1+	50,000	0	200,000	0	250,000	Y	Y	Walla Walla R. release
FWS	Carson NFH	Hood River - Springs 1+	50,000	0	0	0	50,000	Y	N	Hood River release, new program
FWS	Willard NFH	Little White Salmon - Springs 1+	75,000	0	400,000	0	475,000	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	85,000	0	0	85,000	N	N	White River/Wenatchee restoration program
FWS	Warm Springs NFH	Warm Springs - Springs 1+	675,000	0	0	0	675,000	Y	Y	
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	
Total Spring Chinook			1,430,000	585,000	4,590,000	0	6,605,000			
Total Chinook			2,340,000	1,145,000	19,030,000	0	22,515,000			
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
Total Fall Chinook			850,000	650,000	15,800,000	650,000	17,950,000			
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	
Total Spring Chinook			1,445,000	750,000	5,000,000	0	7,195,000			
Total Chinook			2,295,000	1,400,000	20,800,000	650,000	25,145,000			
Total Chinook Production			25,145,000							
Total Percent Marked			92%							

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
Total Fall Chinook			850,000	650,000	17,500,000	1,500,000	20,500,000			
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 Spings 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	
Total Spring Chinook			1,720,000	600,000	5,125,000	0	7,445,000			
Total Chinook			2,570,000	1,250,000	22,625,000	1,500,000	27,945,000			
Total Chinook Production			27,945,000							
Total Percent Marked			90%							

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
Total Fall Chinook			850,000	650,000	17,400,000	1,500,000	20,400,000			
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 Springs 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	
Total Spring Chinook			2,460,000	600,000	4,595,000	0	7,655,000			
Total Chinook			3,310,000	1,250,000	21,995,000	1,500,000	28,055,000			
Total Chinook Production			28,055,000							
Total Percent Marked			90%							

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
Total Fall Chinook			850,000	650,000	15,700,000	3,200,000	20,400,000			
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 Springs 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	
Total Spring Chinook			2,460,000	600,000	4,595,000	0	7,655,000			
Total Chinook			3,310,000	1,250,000	20,295,000	3,200,000	28,055,000			
Total Chinook Production			28,055,000							
Total Percent Marked			84%							

FWS NORTH COAST AND PUGET SOUND 2011 CHINOOK MASS MARKING

3/14/2011

Species: Chinook
 Area: North Coast and Puget Sound
 Brood: 2010
 Release Year: 2011

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)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			

Comments

FWS Makah NFH Sooes River Falls

260,000

0

1,940,000

0

2,200,000

Y

Y

FWS Quinalt NFH

Cook Creek/Quinalt Falls

0

0

0

0

0

N

Y

600K program terminated per HSRG recommendations.

Total Chinook

260,000

0

1,940,000

0

2,200,000

Total Chinook Production

2,200,000

Total Percent Marked

100%

FWS NORTH COAST AND PUGET SOUND 2010 CHINOOK MASS MARKING

1/8/2010

Species: Chinook
Area: North Coast and Puget Sound
Brood: 2009
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 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	
Total Chinook			460,000	0	2,340,000	0	2,800,000			
Total Chinook Production			2,800,000							
Total Percent Marked			100%							

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	
Total Chinook			460,000	0	2,340,000	0	2,800,000			
Total Chinook Production			2,800,000							
Total Percent Marked			100%							

FWS NORTH COAST AND PUGET SOUND 2008 CHINOOK MASS MARKING

1/15/2008

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	
Total Chinook			460,000	0	640,000	0	1,100,000			
Total Chinook Production			1,100,000							
Total Percent Marked			100%							

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	Quinalt NFH	Quinalt Falls	200,000	0	400,000	0	600,000	Y	Y	Decision pending, funding uncertain
Total Chinook			460,000	0	2,440,000	0	2,900,000			
Total Chinook Production			2,900,000							
Total Percent Marked			100%							

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	
Total Chinook			460,000	0	2,440,000	0	2,900,000			
Total Chinook Production			2,900,000							
Total Percent Marked			100%							

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			Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)	Comments
			Ad Clipped	Unclipped	Ad Clipped	Unclipped	Total Production			
FWS	Makah NFH	Makah	260,000	0	1,940,000	0	2,200,000	Y	N	Educket Cr. Release
FWS	Makah NFH	Makah	0	0	100,000	0	100,000	Y	N	
FWS	Quinalt NFH	Quinalt	200,000	0	400,000	0	600,000	Y	N	
Total Chinook			460,000	0	2,440,000	0	2,900,000			
Total Chinook Production			2,900,000							
Total Percent Marked			100%							

FWS SACRAMENTO RIVER 2011 CHINOOK MASS MARKING

3/14/2011

Species: Chinook
Area: Sacramento River
Brood: 2010 and 2011
Release Year: 2011 and 2012

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

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2010	Apr. 2011 Dec.	3,000,000	0	0	9,000,000	12,000,000	Y	Y	General Production received 25% Constant-fractional mark and CWT
FWS	Coleman NFH	Central Valley Late-fall Chinook	2011	2012	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2010	Feb. 2011	200,000	0	0	0	200,000	Y	Y	100% mark and CWT
Total Chinook					4,200,000	0	0	9,000,000	13,200,000			
Total Chinook Production					13,200,000							
Total Percent Marked					32%							

FWS SACRAMENTO RIVER 2010 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2009 and 2010
Release Year: 2010 and 2011
Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2009	Apr. 2010 Dec. 2010/Jan. 2011	3,000,000	0	0	9,000,000	12,000,000	Y	Y	General Production received 25% Constant-fractional mark and CWT; actual production will not meet pre-season targets - anticipated to be 11,300,000
FWS	Coleman NFH	Central Valley Late-fall Chinook	2010	Feb. 2010	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2009	Feb. 2010	200,000	0	0	0	200,000	Y	Y	100% mark and CWT
Total Chinook					4,200,000	0	0	9,000,000	13,200,000			
Total Chinook Production					13,200,000							
Total Percent Marked					32%							

FWS SACRAMENTO RIVER 2009 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2008 and 2009
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	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2008	April 2009/May 2009 Dec 2009/Jan. 2010	3,000,000	0	0	9,000,000	12,000,000	Y	Y	General Production received 25% Constant-fractional mark and CWT; actual production was 14,021,000	
FWS	Coleman NFH	Central Valley Late-fall Chinook	2009	2010	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT; actual production was 1,155,000	
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2008	Feb. 2009	200,000	0	0	0	200,000	Y	Y	100% mark and CWT; actual production was 146,000	
Total Chinook					4,200,000	0	0	9,000,000	13,200,000				
Total Chinook Production					13,200,000								
Total Percent Marked					32%								

FWS SACRAMENTO RIVER 2008 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2007 and 2008
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	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2007	April 2008/June 2008 Dec 2008/Jan. 2009	3,000,000	0	0	9,000,000	12,000,000	Y	Y	General Production received 25% Constant-fractional mark and CWT; actual production was 12,701,000	
FWS	Coleman NFH	Central Valley Late-fall Chinook	2008	2009	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT; actual production was 1,108,000	
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2007	Feb. 2008	200,000	0	0	0	200,000	Y	Y	100% mark and CWT; actual production was 72,000	
Total Chinook					4,200,000	0	0	9,000,000	13,200,000				
Total Chinook Production					13,200,000								
Total Percent Marked					32%								

FWS SACRAMENTO RIVER 2007 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2006 and 2007
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	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2006	Apr. 2007	3,000,000	0	0	9,000,000	12,000,000	Y	Y	General Production received 25% Constant-fractional mark and CWT; actual production was 12,316,000, including 200,000 fry that were 100% marked and CWTd and released in March for a fish screen evaluation	
FWS	Coleman NFH	Central Valley Late-fall Chinook	2007	Nov. 2007/Jan. 2008	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT; actual production was 1,061,000, including 78,000 fry that were 100% marked and CWTd and released from May-June, 2007 at the request of researchers	
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2006	Feb. 2007	200,000	0	0	0	200,000	Y	Y	100% mark and CWT; actual production was 196,000	
Total Chinook					4,200,000	0	0	9,000,000	13,200,000				
Total Chinook Production					13,200,000								
Total Percent Marked					32%								

FWS SACRAMENTO RIVER 2006 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2005 and 2006
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	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2005	Apr. 2006	0	0	0	12,000,000	12,000,000	Y	Y	General Production were not marked or tagged due to lack of funding; actual production was 13,355,000, including 200,000 fry that were 100% marked and CWTd and released in March for a fish screen evaluation
FWS	Coleman NFH	Central Valley Late-fall Chinook	2006	Nov. 2006/Jan. 2007	1,000,000	0	0	0	1,000,000	Y	Y	General Production received 100% mark and CWT; actual production was 1,165,000, including 52,000 fry that were 100% marked and CWTd and released from May-June, 2006 at the request of researchers
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2005	Feb. 2006	200,000	0	0	0	200,000	Y	Y	100% mark and CWT; actual production was 173,000
Total Chinook					1,200,000	0	0	12,000,000	13,200,000			
Total Chinook Production					13,200,000							
Total Percent Marked					9%							

FWS SACRAMENTO RIVER 2005 CHINOOK MASS MARKING

12/28/2009

Species: Chinook
Area: Sacramento River
Brood: 2004 and 2005
Release Year: 2005 and 2006
Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Central Valley Fall Chinook	2004	Apr. 2005	0	0	0	12,000,000	12,000,000	Y	Y	General Production were not marked or tagged due to lack of funding; actual production was 11,854,000, including 147,000 fry that were marked and CWTd and released February-March for a fish screen evaluation
FWS	Coleman NFH	Central Valley Late-fall Chinook	2005	Dec. 2005/Jan. 2006	1,000,000	0	0	0	1,000,000	Y	Y	
FWS	Livingston Stone NFH	Sacramento River Winter Chinook	2004	Feb. 2005	200,000	0	0	0	200,000	Y	Y	100% mark and CWT; actual production was 168,000
Total Chinook					1,200,000	0	0	12,000,000	13,200,000			
Total Chinook Production					13,200,000							
Total Percent Marked					9%							

FWS COLUMBIA RIVER 2011 COHO MASS MARKING

3/14/2011

Species: Coho
 Area: Columbia River
 Brood: 2010
 Release Year: 2012
 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	Clearwater River - 1+	0	30,000	0	245,000	275,000	N	N	Clear Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Clearwater River - 1+	0	30,000	0	245,000	275,000	N	N	Lapwai Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek/Yakima R. - 1+	0	210,000	240,000	0	450,000	Y	Y	Yakima R. Release - YN restoration
FWS	Willard NFH	Wenatchee R. - 1+	0	550,000	0	0	550,000	N	N	Wenatchee R. Release - YN restoration
ODFW	Cascade Hatchery	Wenatchee R. - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - (Tagged by FWS) YN restoration
FWS	Winthrop NFH	Wenatchee R. - 1+	0	250,000	0	0	250,000	N	N	YN restoration program
Total Coho			25,000	1,795,000	540,000	490,000	2,850,000			
Total Coho Production			2,850,000							
Total Percent Marked			20%							

FWS COLUMBIA RIVER 2010 COHO MASS MARKING

1/8/2010

Species: Coho
Area: Columbia River
Brood: 2009
Release Year: 2011

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	Clearwater River - 1+	0	30,000	0	245,000	275,000	N	N	Clear Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Clearwater River - 1+	0	30,000	0	245,000	275,000	N	N	Lapwai Cr. Release - NPT restoration
FWS	Eagle Creek NFH	Eagle Creek - 1+	25,000	0	425,000	50,000	500,000	Y	Y	Yakima R. Release - YN
FWS	Willard NFH	Wenatchee R. - 1+	0	550,000	0	0	550,000	N	N	Wenatchee R. Release - YN restoration
ODFW	Cascade Hatchery	Wenatchee R. - 1+	0	700,000	0	0	700,000	N	N	Wen. R. Rel. - (Tagged by FWS) YN restora
FWS	Winthrop NFH	Wenatchee R. - 1+	0	250,000	0	0	250,000	N	N	YN restoration program
Total Coho			75,000	1,585,000	850,000	540,000	3,050,000			
Total Coho Production			3,050,000							
Total Percent Marked			30%							

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
Total Coho			100,000	1,785,000	875,000	490,000	3,250,000			
Total Coho Production			3,250,000							
Total Percent Marked			30%							

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
Total Coho			85,000	2,855,000	850,000	590,000	4,380,000			
Total Coho Production			4,380,000							
Total Percent Marked			21%							

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
Total Coho			145,000	1,765,000	950,000	970,000	3,830,000			
Total Coho Production			3,830,000							
Total Percent Marked			29%							

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
Total Coho			125,000	1,745,000	1,050,000	1,010,000	3,930,000			

Total Coho Production 3,930,000
Total Percent Marked 30%

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
Total Coho			425,000	1,445,000	1,050,000	1,010,000	3,930,000			
Total Coho Production			3,930,000							
Total Percent Marked			38%							

FWS NORTH COAST AND PUGET SOUND 2011 COHO MASS MARKING

3/14/2011

Species: Coho
 Area: North Coast and Puget Sound
 Brood: 2010
 Release Year: 2012

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	220,000	0	300,000	Y	Y	Quilcene Bay Net Pens
FWS	Quicene NFH	Big Quilcene River	40,000	0	160,000	0	200,000	Y	Y	
Total Coho			200,000	160,000	1,080,000	0	1,440,000			
Total Coho Production			1,440,000							
Total Percent Marked			89%							

FWS NORTH COAST AND PUGET SOUND 2010 COHO MASS MARKING

1/8/2010

Species: Coho
Area: North Coast and Puget Sound
Brood: 2009
Release Year: 2011

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	Quinalt NFH	Cook Creek	80,000	80,000	500,000	0	660,000	Y	Y		
FWS	Quicene NFH	Big Quilcene River	40,000	40,000	220,000	0	300,000	Y	Y	Quilcene Bay Net Pens	
FWS	Quicene NFH	Big Quilcene River	40,000	0	160,000	0	200,000	Y	Y		
Total Coho			200,000	160,000	1,080,000	0	1,440,000				
Total Coho Production			1,440,000								
Total Percent Marked			89%								

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	Educk Creek program
FWS	Makah NFH	Sooes River	40,000	40,000	160,000	0	240,000	Y	Y	
FWS	Quinalt 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	Quilcene Bay Net Pens
FWS	Quicene NFH	Big Quilcene River	45,000	0	155,000	0	200,000	Y	Y	
Total Coho			205,000	160,000	1,175,000	0	1,540,000			
Total Coho Production			1,540,000							
Total Percent Marked			90%							

FWS NORTH COAST AND PUGET SOUND 2008 COHO MASS MARKING

1/15/2008

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	Quinalt 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	Quilcene Bay Net Pens
FWS	Quicene NFH	Big Quilcene River	45,000	0	155,000	0	200,000	Y	Y	
Total Coho			205,000	160,000	1,175,000	0	1,540,000			
Total Coho Production			1,540,000							
Total Percent Marked			90%							

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	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
Total Coho			213,000	168,000	1,119,000	0	1,500,000			
Total Coho Production			1,500,000							
Total Percent Marked			89%							

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	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
Total Coho			213,000	168,000	1,119,000	0	1,500,000			
Total Coho Production			1,500,000							
Total Percent Marked			89%							

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	Quinalt NFH	Quinalt	80,000	80,000	440,000	0	600,000	Y	Y	
FWS	Quinalt NFH	Quinalt	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
Total Coho			213,000	168,000	1,179,000	0	1,560,000			
Total Coho Production			1,560,000							
Total Percent Marked			89%							

FWS COLUMBIA RIVER 2011 STEELHEAD MASS MARKING

3/14/2011

Species: Steelhead
Area: Columbia River
Brood: 2011
Release Year: 2012

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	Winthrop NFH	Wells/Methow	100,000	0	0	0	100,000	Y	Y	
FWS	Abernathy FTC	Abernathy	20,000	0	0	0	20,000	Y	Y	
FWS	Dworshak NFH	Dworshak	180,000	0	1,720,000	0	1,900,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	0	0	200,000	200,000	N	N	Lolo Cr., M. Fk. Clearwater R. Restoration
FWS	Hagerman NFH	Salmon River	80,000		1,020,000	0	1,100,000	Y	Y	Marked by IDFG
Total steelhead			380,000	0	2,740,000	200,000	3,320,000			
Total Steelhead Production			3,320,000							
Total Percent Marked			94%							

FWS COLUMBIA RIVER 2010 STEELHEAD MASS MARKING

1/8/2010

Species: Steelhead
Area: Columbia River
Brood: 2010
Release Year: 2011

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	0	0	90,000	0	90,000	Y	Y	ADRV clip
FWS	Winthrop NFH	Wells/methow	100,000	0	0	0	100,000	Y	Y	
FWS	Abernathy FTC	Abernathy	20,000	0	0	0	20,000	Y	Y	
FWS	Dworshak NFH	Dworshak	180,000	0	2,000,000	0	2,180,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	0	0	220,000	220,000	N	N	Lolo Cr., M. Fk. Clearwater R. Re
FWS	Hagerman NFH	Salmon River	80,000		1,020,000	0	1,100,000	Y	Y	Marked by IDFG
Total steelhead			380,000	0	3,110,000	220,000	3,710,000			
Total Steelhead Production			3,710,000							
Total Percent Marked			94%							

FWS COLUMBIA RIVER 2009 STEELHEAD MASS MARKING

1/23/2009

Species: Steelhead
Area: Columbia River
Brood: 2009
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	0	0	100,000	0	100,000	Y	Y	ADRV clip
FWS	Winthrop NFH	Wells/methow	100,000	0	0	0	100,000	Y	Y	
FWS	Abernathy FTC	Abernathy	20,000	0	0	0	20,000	Y	Y	
FWS	Dworshak NFH	Dworshak	180,000	0	1,720,000	0	1,900,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	200,000	0	0	200,000	N	N	Lolo Cr., Middle Fk. Clearwater Release
FWS	Hagerman NFH	Salmon River	80,000		1,020,000	0	1,100,000	Y	Y	Marked by IDFG
Total steelhead			380,000	200,000	2,840,000	0	3,420,000			
Total Steelhead Production			3,420,000							
Total Percent Marked			94%							

FWS COLUMBIA RIVER 2008 STEELHEAD MASS MARKING

1/15/2008

Species: Steelhead
Area: Columbia River
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	Eagle Creek NFH	Eagle Creek	0	0	100,000	0	100,000	Y	Y	ADRV clip
FWS	Winthrop NFH	Wells	0	0	100,000	0	100,000	Y	Y	
FWS	Abernathy FTC	Abernathy	20,000	0	0	0	20,000	Y	Y	
FWS	Dworshak NFH	Dworshak	150,000	0	1,750,000	0	1,900,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	200,000	0	0	200,000	N	N	S. Fk. Clearwater Release
FWS	Hagerman NFH	Salmon River	80,000		1,120,000	0	1,200,000	Y	Y	Marked by IDFG
Total steelhead			250,000	200,000	3,070,000	0	3,520,000			
Total Steelhead Production			3,520,000							
Total Percent Marked			94%							

FWS COLUMBIA RIVER 2007 STEELHEAD MASS MARKING

1/26/2007

Species: Steelhead
Area: Columbia River
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	Eagle Creek NFH	Eagle Creek	0	0	150,000	0	150,000	Y	Y	ADRV clip
FWS	Winthrop NFH	Wells	100,000	0	0	0	100,000	Y	Y	
FWS	Abernathy FTC	Abernathy	20,000	0	0	0	20,000	Y	Y	
FWS	Dworshak NFH	Dworshak	120,000	0	1,880,000	0	2,000,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	200,000	0	0	200,000	N	N	S. Fk. Clearwater Release
FWS	Hagerman NFH	Salmon River	80,000		1,120,000	0	1,200,000	Y	Y	Marked by IDFG
Total steelhead			320,000	200,000	3,150,000	0	3,670,000			
Total Steelhead Production			3,670,000							
Total Percent Marked			95%							

FWS COLUMBIA RIVER 2006 STEELHEAD MASS MARKING

2/6/2006

Species: Steelhead
Area: Columbia River
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	Eagle Creek NFH	Eagle Creek	150,000	0	0	0	150,000	Y	Y	
FWS	Dworshak NFH	Dworshak	120,000	0	1,780,000	0	1,900,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	200,000	0	0	200,000	N	N	S. Fk. Clearwater Release
FWS	Hagerman NFH	Salmon River	80,000		1,120,000	0	1,200,000	Y	Y	
Total steelhead			350,000	200,000	2,900,000	0	3,450,000			
Total Steelhead Production			3,450,000							
Total Percent Marked			94%							

FWS COLUMBIA RIVER 2005 STEELHEAD MASS MARKING

4/27/2005

Species: Steelhead
Area: Columbia River
Brood: 2005
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	150,000	0	0	0	150,000	Y	Y	
FWS	Dworshak NFH	Dworshak	120,000	0	1,780,000	0	1,900,000	Y	Y	1.2M Released On-station
FWS	Dworshak NFH	Dworshak	0	200,000	0	0	200,000	N	N	S. Fk. Clearwater Release
IDFG	Clearwater Anad. Hatchery	Dworshak	0	150,000	0	0	150,000	N	N	Tagged by FWS
Total steelhead			270,000	350,000	1,780,000	0	2,400,000			
Total Steelhead Production			2,400,000							
Total Percent Marked			85%							

FWS NORTH COAST AND PUGET SOUND 2011 STEELHEAD MASS MARKING

3/14/2011

Species: Steelhead
Area: North Coast and Puget Sound
Brood: 2011
Release Year: 2012

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	158,000	0	158,000	Y	Y	
FWS	Makah NFH	Sooes River	0	0	22,000	0	22,000	Y	Y	Educket Cr. release
FWS	Quinalt NFH	Cook Creek/Quinalt	20,000	0	180,000	0	200,000	Y	Y	
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40,000	0	50,000	Y	Y	Hoh R. direct stream release. Program may be discontinued in BY 20011 due to IHNV.
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40,000	0	50,000	Y	Y	Chalaat Ck. Transfer. Program may be discontinued in BY 2011 due to IHNV.
Total Steelhead			40,000	0	440,000	0	480,000			
Total Steelhead Production			480,000							
Total Percent Marked			100%							

FWS NORTH COAST AND PUGET SOUND 2010 STEELHEAD MASS MARKING

1/8/2010

Species: Steelhead

Area: North Coast and Puget Sound

Brood: 2010

Release Year: 2011

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	158000	0	158,000	Y	Y	
FWS	Makah NFH	Sooes River	0	0	22000	0	22,000	Y	Y	Educket Cr. release
FWS	Quinalt NFH	Cook Creek/Quinalt	20,000	0	170000	0	190,000	Y	Y	53K of this produciton destroyed due to IHNV.
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Hoh R. direct stream release
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Chalaat Ck. transfer
Total Steelhead			40,000	0	430,000	0	470,000			
Total Steelhead Production			470,000							
Total Percent Marked			100%							

FWS NORTH COAST AND PUGET SOUND 2009 STEELHEAD MASS MARKING

2/5/2009

Species: Steelhead
Area: North Coast and Puget Sound
Brood: 2009
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	158000	0	158,000	Y	N	
FWS	Makah NFH	Sooes River	0	0	22000	0	22,000	Y	N	Educket Cr. release
FWS	Quinalt NFH	Cook Creek/Quinalt	20,000	0	170000	0	190,000	Y	N	
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Hoh R. direct stream release
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Chalaat Ck. transfer
Total Steelhead			40,000	0	430,000	0	470,000			
Total Steelhead Production			470,000							
Total Percent Marked			100%							

FWS NORTH COAST AND PUGET SOUND 2008 STEELHEAD MASS MARKING

1/15/2008

Species: Steelhead
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	0	0	0	158,000	158,000	N	N	
FWS	Makah NFH	Sooes River	0	0	0	22,000	22,000	N	N	Educket Cr. release
FWS	Quinalt NFH	Cook Creek/Quinalt	20,000	0	0	170,000	190,000	N	N	
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Hoh R. direct stream release
FWS	Quinalt NFH	Cook Creek/Quinalt	10,000	0	40000	0	50,000	Y	Y	Chalaat Ck. transfer
Total Steelhead			40,000	0	80,000	350,000	470,000			
Total Steelhead Production			470,000							
Total Percent Marked			26%							

FWS NORTH COAST AND PUGET SOUND 2007 STEELHEAD MASS MARKING

1/26/2007

Species: Steelhead
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	Makah	0	0	0	158,000	158,000	N	Y	
FWS	Makah NFH	Makah	0	0	0	22,000	22,000	N	Y	Educket Cr. release
FWS	Quinalt NFH	Quinalt	20,000	0	0	170,000	190,000	N	Y	
FWS	Quinalt NFH	Quinalt	10,000	0	40000	0	50,000	Y	Y	Hoh R. direct stream release
FWS	Quinalt NFH	Quinalt	10,000	0	40000	0	50,000	Y	Y	Chalaat Ck. transfer
Total Steelhead			40,000	0	80,000	350,000	470,000			
Total Steelhead Production			470,000							
Total Percent Marked			26%							

FWS NORTH COAST AND PUGET SOUND 2006 STEELHEAD MASS MARKING

2/6/2006

Species: Steelhead

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	0	0	158,000	0	158,000	Y	Y	
FWS	Makah NFH	Makah	0	0	22,000	0	22,000	Y	Y	Educket Cr. Release
FWS	Quinault NFH	Quinault	20,000	0	170,000	0	190,000	Y	Y	
Total Steelhead			20,000	0	350,000	0	370,000			
Total Steelhead Production			370,000							
Total Percent Marked			100%							

FWS NORTH COAST AND PUGET SOUND 2005 STEELHEAD MASS MARKING

4/27/2005

Species: Steelhead
Area: North Coast and Puget Sound
Brood: 2005
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	0	0	175,000	0	175,000	Y	Y	
FWS	Makah NFH	Makah	0	0	25,000	0	25,000	Y	Y	Educket Cr. Release
FWS	Quinalt NFH	Quinalt	20,000	0	170,000	0	190,000	Y	Y	
Total Steelhead			20,000	0	370,000	0	390,000			
Total Steelhead Production			390,000							
Total Percent Marked			100%							

FWS SACRAMENTO RIVER 2011 STEELHEAD MASS MARKING

3/14/2011

Species: Steelhead
Area: Sacramento River
Brood: 2011
Release Year: 2012
Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2011	Jan 2012	0	0	600,000	0	600,000	Y	Y	
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2010 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
Brood: 2010
Release Year: 2011
Program Levels: Actual releases and marking levels may be somewhat higher or lower depending on actual rearing cycle.

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2010	Jan 2011	0	0	600,000	0	600,000	Y	Y	
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2009 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
Brood: 2009
Release Year: 2010

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

Agency	Hatchery	Stock	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2009	Jan 2010	0	0	600,000	0	600,000	Y	Y	Actual production was 594,000
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2008 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
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	Brood Year	Approx. Release Date	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	Uncolipped	Ad Clipped	Uncolipped				
FWS	Coleman NFH	Battle Creek Steelhead	2008	Jan 2009	0	0	600,000	0	600,000	Y	Y	Actual production was 667,000
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2007 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
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	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2007	Jan 2008	0	0	600,000	0	600,000	Y	Y	Actual production was 641,000
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2006 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
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	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2006	Jan 2007	0	0	600,000	0	600,000	Y	Y	Actual production was 673,000
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

FWS SACRAMENTO RIVER 2005 STEELHEAD MASS MARKING

12/28/2009

Species: Steelhead
Area: Sacramento River
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	Brood Year	Approx. Release Date	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	Coleman NFH	Battle Creek Steelhead	2005	Jan 2006	0	0	600,000	0	600,000	Y	Y	Actual production was 607,000
Total Steelhead					0	0	600,000	0	600,000			
Total Steelhead Production					600,000							
Total Percent Marked					100%							

Active West Coast Hydrokinetic Projects

Report developed by the Pacific Fishery Management Council

Tuesday, March 22, 2011

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
California					
P-13376	Del Mar Landing Project (Sonoma County Water Agency)*	7/9/2009	Study location is 14.3 sq nautical miles. Three miles off the coast of Sonoma County, in state waters. Water depths of 20-50 meters.	Progress suspended pending funding. On 3/21/2011, FERC asked applicant why projects should not be suspended. Preliminary permits may be cancelled if NOI and Draft License Applications are not filed by July 8, 2011.	Pilot project (5 mW or less). Looking at oscillating water column & buoy-type devices, including Pelamis. Initially, 2-5 MW. Eventually, 40-200 MW.
	Last updated: 3/21/2011				
P-13378	Fort Ross Project North (Sonoma County Water Agency)*	7/9/2009	Study area is 10.4 square nm.	Progress suspended pending funding. On 3/21/2011, FERC asked applicant why projects should not be suspended. Preliminary permits may be cancelled if NOI and Draft License Applications are not filed by July 8, 2011.	
	Last updated: 3/21/2011				
P-13377	Fort Ross South Project South (Sonoma County Water Agency)*	7/9/2009	Study area is 15.3 square nm. In state waters off Sonoma County, near Fort Ross, 20-50 m deep.	Progress suspended pending funding. On 3/21/2011, FERC asked applicant why projects should not be suspended. Preliminary permits may be cancelled if NOI and Draft License Applications are not filed by July 8, 2011.	Pilot project. Initially 2-5 MW; eventually 40-200 MW.
	Last updated: 3/21/2011				

* = FERC-related activity since last report. FERC = Federal Energy Regulatory Commission. MMS = Minerals Management Service. MW = megawatts. nm = nautical miles. NMFS = National Marine Fisheries Service. NOI = Notice of Intent. OCS = Outer Continental Shelf. PAD = Preliminary Application Document. TLP = Traditional Licensing Process. WEC = wave energy conversion device.

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
P-13641	PGE Central Coast WaveConnect Project	5/14/2010	Study area: 45 square miles off Santa Barbara County, in depths ranging from 36 to 300 feet of water	PGE submitted app for prelim permit October 2009. Morro Bay Commercial Fishermen's Organization, NMFS, others commented/submitted motions to intervene. Submitted 6-month progress report 10/2010. No activity since then. Aim to file PAD in May 2011.	Multiple arrays of wave energy conversion devices. 100 MW
	Last updated: 3/21/2011				
P-12585	San Francisco Bay Tidal Energy Project (Golden Gate Energy)*	2/4/2010	San Francisco Bay. Footprint not specified.	The City of San Francisco compiled a notice of intervention and protest, citing environmental and process reasons. (They apparently want to build wave project on same site). FERC granted new (repeat) preliminary permit. Issued progress report on 1/28/2011. Conducting studies and consultations. Status report says they have consulted with PFMC, but this has not occurred yet. Plan to file NOI/PAD in March 2011.	60 turbines/square mile, 1000 mW
	Last updated: 3/21/2011				

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
P-13679	San Onofre OWEC Electricity Farm*	10/29/10	Adjacent to San Onofre nuclear power plant, less than 3 nm off coast south of San Clemente. Area affected: 1.93 square nm. Less than 25 feet in depth. Plan to use nuclear power infrastructure (plant being decommissioned).	Preliminary permit issued 10/10; NMFS commented 12/10; FERC rejected notice of intent and PAD 12/10 because applicant did not conduct consultations and meet other requirements; applicant submitted revised PAD 2/11; applicant planning stakeholder meeting on 3/31/11.	OWEG (Ocean Wave Energy Generation) devices. Experimental technology that uses wheels, a conveyor belt, and water buckets. 11,443 units generating 13% of California's 2007 energy generation capacity.
	Last updated: 3/22/2011	PAD submitted		Conducting meetings with stakeholders.	
Oregon					
P-12749	Coos Bay OPT Wave Park*	8/10/2010	Coos Bay, OR. 200 PowerBuoys in rows parallel to the beach, 25-40 fm deep. Currently, 1 mile wide by 5 miles long; eventually smaller. 2.5 miles from shore.	Submitted PAD 3/7/08. New prelim permit granted 8/10/2010. Submitted progress report 3/1/2011. Current discussions relate to power transmissions, etc.	200-400 buoys, 100 mW; annual generation of 276,000 megawatt-hours
	Last updated: 3/21/2011	PAD submitted			
P-12743	Douglas County Project (Douglas County)*	10/06/2010	Winchester Bay. Project would be powered by wave-driven air currents created by infrastructure built into existing jetty; installed capacity of 3MW. Applying for 50-year license.	Submitted six-month report 10/19/2009. Conducting wave tank modeling of different sites. Preliminary permit (second one) granted 10/06/10. Schedule of activities was due in November but was not submitted. On March 11, FERC notified applicant that the schedule must be submitted within 30 days or permit will be revoked.	One jetty-based structure
	Last updated: 3/21/2011	PAD submitted			

* = FERC-related activity since last report. FERC = Federal Energy Regulatory Commission. MMS = Minerals Management Service. MW = megawatts. nm = nautical miles. NMFS = National Marine Fisheries Service. NOI = Notice of Intent. OCS = Outer Continental Shelf. PAD = Preliminary Application Document. TLP = Traditional Licensing Process. WEC = wave energy conversion device.

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
Needs MMS lease	Principle Power Offshore Wind Project		Off Oceanside & Netarts, OR. Project will begin with a single WindFloat floating turbine (243 feet); eventually plan to expand to "an entire offshore wind farm, covering 12 to 15 square miles and capable of generating 150 to 200 megawatts."	In 2008, Principle Power signed MOUs with Tillamook Intergovernmental Development Entity (TIDE) and Tillamook PUD. 9/2010 - PP and TIDE held contract negotiations and public workshop. Principle Power now working on project in Portugal. No news on Tillamook project. Need MMS lease/license.	30 wind turbines, 5 MW each (150 MW)
	Last updated: 3/21/2011				
P-12713	Reedsport OPT Wave Park*		Reedsport, 2.5 miles off coast. 204-225' depth. Footprint: 0.25 sq. miles. Sandy bottom. Each PowerBuoy would have diameter of 36 sq feet and extend 30 feet above the water.	Much new activity. PFMC has commented twice on this project. Environmental assessment released Dec. 2010. Formal consultations with NMFS, USFWS. (Comment period closed). Project continues to move forward.	10 OPT PowerBuoys (50 mw), in 3-4 rows.
	Last updated: 3/21/2011	PAD submitted			
P-13666	Reedsport OPT Wave Park, Phase III*	3/15/2011	Off Douglas County, 2.5 miles off Reedsport, in water 25-35 fathoms deep. Footprint 1x5 miles.	Applied for preliminary permit 2/1/2010. Many motions to intervene. Permit issued 3/15/2011.	100 PowerBuoys (50 MW) adjacent to Phase I project (P-12713). 2.5 mile long subsea transmission cable.
	Last updated: 3/21/2011				
Washington					

* = FERC-related activity since last report. FERC = Federal Energy Regulatory Commission. MMS = Minerals Management Service. MW = megawatts. nm = nautical miles. NMFS = National Marine Fisheries Service. NOI = Notice of Intent. OCS = Outer Continental Shelf. PAD = Preliminary Application Document. TLP = Traditional Licensing Process. WEC = wave energy conversion device.

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
P-12690	Admiralty Inlet (Snohomish PUD)*	7/8/2010	Admiralty Inlet, Puget Sound. Bay/estuary habitat; 60-100 m deep; bottom is scoured pebbles and sand; much shipping & commercial traffic.	Continues moving forward. Submitted PAD 1/31/08. Second prelim permit issued July 2010. Submitted progress report 12/29/10. Consulted with NMFS and other agencies. Conducted ROV work in area. Planning for laying undersea cable.	Two 10-meter, 500 kW open-center turbines (OpenHydro Group), mounted on submerged foundations (underwater). Less than 5 MW.
	Last updated: 3/21/2011	PAD submitted		Continuing studies and planning for deployment.	
P-12687	Deception Pass (Snohomish PUD)*	8/24/2010	Deception Pass, Puget Sound. Bay/estuary habitat; 30 m deep; rocky seafloor; mainly recreational use.	New preliminary permit issued Aug 2010 (old one expired). Plans to move forward with Admiralty Inlet project first. Filed progress report 12/29/2010. Progress focuses on Admiralty Inlet.	Four 66-foot turbines, 1.6 megawatts each, 25 feet above sea floor. 6.4 MW; 20.7 gigawatts annually
	Last updated: 3/21/2011	PAD submitted		Snohomish PUD intends to pursue a pilot license for a project in Admiralty Inlet first, and then apply that learning to a project in Deception Pass.	

U.S. Department of
Homeland Security

United States
Coast Guard



Commander (d)
Thirteenth Coast Guard District

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APR 04 2011

PFMC

915 2nd Avenue
Seattle, WA 98174
Staff Symbol: d
Phone: (206) 220-7090
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16214

MAR 25 2011

Mr. Mark Cedergreen
Chairman, Pacific Fishery Management Council
7700 NE Ambassador Place, Suite 101
Portland, Oregon 97220-1384

Dear Chairman Cedergreen,

Thank you for allowing the Coast Guard the opportunity to brief the Council during the March meeting. I understand the limitations a growing workload places on the Council and realize that allocating even an hour of scheduled time reflects the great significance the Council places on our partnership. The annual report is an important part of the Coast Guard's ongoing communication with stakeholders, promoting awareness of safety concerns and compliance with management plans.

This year's report was especially relevant, considering the upcoming changes to fishing vessel safety requirements from the recently signed Coast Guard Authorization Act. My staff has already committed to meeting with industry during several upcoming events, including the Western Fishboat Owners Association meeting and the Council's series of Salmon Hearings.

Please also accept this letter as formal notice to the Council of my planned retirement from the Coast Guard, effective in July 2011. Rear Admiral Keith Taylor will relieve me as District Commander and serve as the Coast Guard's representative on the Council. Admiral Taylor is currently the Assistant Commandant for Resources and Chief Financial Officer for the U.S. Coast Guard. Lieutenant Commander Brian Chambers and Mr. Brian Corrigan will remain as designees to the Council and points of contact for fisheries management and enforcement issues.

Thank you again for accommodating the Coast Guard report. I was especially appreciative of the kind words expressed by the Council members about the friendly connections and lasting relationships Coast Guard men and women have in our coastal communities. I would like to extend my gratitude to the entire Council family, including staff, agency personnel, industry, sportsmen and members of the public, for their commitment to stewardship and our local region.

Sincerely,

A handwritten signature in black ink, appearing to read "G. T. Blore".

G. T. BLORE
RADM, U.S. Coast Guard
Commander, Thirteenth CG District

DEPARTMENT OF COMMERCE**National Oceanic and Atmospheric Administration****50 CFR Parts 223 and 224****[Docket No. 110328226–1228–02]****RIN 0648–XA272****Listing Endangered and Threatened Species; 90-Day Finding on a Petition To List Chinook Salmon****AGENCY:** National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.**ACTION:** Notice of 90-day petition finding; request for information.

SUMMARY: We, NMFS, announce a 90-day finding for a petition to list the Chinook salmon (*Oncorhynchus tshawytscha*) in the Upper Klamath and Trinity Rivers Basin as threatened or endangered and designate critical habitat under the Endangered Species Act (ESA). We find that the petition presents substantial scientific information indicating the petitioned actions may be warranted. We will conduct a status review of the Chinook salmon in the Upper Klamath and Trinity Rivers Basin to determine if the petitioned actions are warranted. To ensure that the review is comprehensive, we solicit information pertaining to this species and its habitat from all interested parties.

DATES: Information related to this petition finding must be received by June 13, 2011.

ADDRESSES: You may submit comments, identified by RIN 0648–XA272, by any of the following methods:

- **Electronic Submissions:** Submit all electronic public comments via the Federal eRulemaking Portal <http://www.regulations.gov>. Follow the instructions for submitting comments.

- **Mail or hand-delivery:** Assistant Regional Administrator, Protected Resources Division, Attn: Rosalie del Rosario, National Marine Fisheries Service, 501 West Ocean Blvd., Suite 4200, Long Beach, CA 90802–4213.

Instructions: All comments received are a part of the public record and will generally be posted to <http://www.regulations.gov> shortly after receipt. All personal identifying information (e.g., name, address, etc.) voluntarily submitted by the commenter may be publically accessible. Do not submit confidential business information or otherwise sensitive or protected information. We will accept anonymous comments (if you wish to

remain anonymous enter N/A in the required fields). Attachments to electronic comments will be accepted in Microsoft Word, Excel, WordPerfect, or Adobe PDF file formats only. If your submission is made via hardcopy that includes personal identifying information, you may request at the top of your document that we withhold this information from public review to the extent consistent with applicable law. However, we cannot guarantee that we will be able to do so. The petition and other pertinent information are also available electronically at the NMFS Southwest Region Web site at <http://swr.nmfs.noaa.gov/>.

FOR FURTHER INFORMATION CONTACT: Rosalie del Rosario, NMFS, Southwest Region Office, (562) 980–4085; or Lisa Manning, NMFS, Office of Protected Resources, (301) 713–1401.

SUPPLEMENTARY INFORMATION:**Background**

On January 28, 2011, the Secretary of Commerce received a petition from the Center for Biological Diversity, Oregon Wild, Environmental Protection Information Center, and The Larch Company (hereafter, the Petitioners), requesting that we list Chinook salmon (*Oncorhynchus tshawytscha*) in the Upper Klamath Basin under the Endangered Species Act (ESA) (16 U.S.C. 1531 *et seq.*). In their petition, the Petitioners used various phrases as well as “Upper Klamath Basin” to describe the area in which they are requesting that we list Chinook salmon. Because their request is generally made in reference to the Upper Klamath and Trinity Rivers evolutionarily significant unit (ESU) of Chinook salmon, we will use the description of the currently defined ESU to describe the area in which they are requesting that we list Chinook salmon, and we will hereinafter refer to that area as the Upper Klamath and Trinity Rivers Basin. NMFS described all Klamath River Basin populations of Chinook salmon from the Trinity River and Klamath River upstream from the confluence of the Trinity River as the Upper Klamath and Trinity Rivers ESU, which includes both spring-run and fall-run fish (63 FR 11487; March 9, 1998).

The Petitioners recommend three alternatives for listing Chinook salmon: (1) List spring-run only as a separate ESU; (2) list spring-run as a distinct population segment (DPS) within the Upper Klamath and Trinity Rivers ESU; or (3) list the currently defined Upper Klamath and Trinity Rivers ESU, which includes both spring-run and fall-run. The petitioners also request designation

of critical habitat for the Chinook salmon populations that are found to warrant listing.

ESA Statutory Provisions and Policy Considerations

Section 4(b)(3)(A) of the ESA (16 U.S.C. 1533(b)(3)(A)) requires that we make a finding as to whether a petition to list, delist, or reclassify a species presents substantial scientific or commercial information indicating the petitioned action may be warranted. ESA implementing regulations define substantial information as the amount of information that would lead a reasonable person to believe the measure proposed in the petition may be warranted (50 CFR 424.14(b)(1)). In determining whether substantial information exists for a petition to list a species, we take into account several factors, including information submitted with, and referenced in, the petition and all other information readily available in our files. To the maximum extent practicable, this finding is to be made within 90 days of the receipt of the petition (16 U.S.C. 1533(b)(3)(A)), and the finding is to be published promptly in the **Federal Register**. If we find that a petition presents substantial information indicating that the requested action may be warranted, section 4(b)(3)(A) of the ESA (16 U.S.C. 1533(b)(3)(A)) requires the Secretary of Commerce (Secretary) to conduct a status review of the species. Section 4(b)(3)(B) (16 U.S.C. 1533(b)(3)(B)) requires the Secretary to make a finding as to whether or not the petitioned action is warranted within 12 months of receipt of the petition (12-month finding). The Secretary has delegated the authority for these actions to the NOAA Assistant Administrator for Fisheries.

Under the ESA, a listing determination can address a species, subspecies, or a DPS of a vertebrate species (16 U.S.C. 1532(16)). In 1991, we issued the Policy on Applying the Definition of Species Under the Endangered Species Act to Pacific Salmon (ESU Policy; 56 FR 58612; November 20, 1991), which explains that Pacific salmon populations will be considered a DPS, and hence a “species” under the ESA, if it represents an “evolutionarily significant unit” of the biological species. The two criteria for delineating an ESU are: It is substantially reproductively isolated from other conspecific populations, and it represents an important component in the evolutionary legacy of the species. The ESU Policy was used to define the Upper Klamath and Trinity Rivers Chinook salmon ESU in 1998 (63 FR

11482, 11493; March 9, 1998), and we use it exclusively for defining distinct population segments of Pacific salmon. In 1996, the U.S. Fish and Wildlife Service (USFWS) and NMFS published the Policy Regarding the Recognition of Distinct Vertebrate Population Segments Under the Endangered Species Act (DPS Policy; 61 FR 4722; February 7, 1996) to clarify the interpretation of the phrase "distinct population segment." This policy provides two criteria for identifying DPSs: Discreteness from other populations and significance to its taxon. In announcing this policy, USFWS and NMFS indicated that the ESU Policy for Pacific salmon was consistent with the DPS Policy and that NMFS would continue to use the ESU Policy for Pacific salmon.

The ESA defines an endangered species as "any species which is in danger of extinction throughout all or a significant portion of its range" (16 U.S.C. 1532(6)). A threatened species is defined as a species that is "likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range" (16 U.S.C. 1532(20)). Under section 4(a)(1) of the ESA (16 U.S.C. 1533(a)(1)), a species may be determined to be threatened or endangered as a result of any of the following factors: (1) Present or threatened destruction, modification, or curtailment of habitat or range; (2) over-utilization for commercial, recreational, scientific, or educational purposes; (3) disease or predation; (4) inadequacy of existing regulatory mechanisms; or (5) other natural or manmade factors affecting its continued existence. Listing determinations are made solely on the basis of the best scientific and commercial data available after conducting a review of the status of the species and taking into account efforts made by any state or foreign nation to protect such species.

Upper Klamath and Trinity Rivers Chinook Salmon ESU

In 1998, we completed a status review of west coast Chinook salmon populations that defined the Upper Klamath and Trinity Rivers Chinook salmon ESU as including all spring-run and fall-run populations from the Trinity River and the Klamath River upstream from the confluence of the Trinity River (NMFS, 1998). Based on the health of the fall-run populations within the ESU, we concluded the ESU was not at significant risk of extinction nor likely to become endangered in the foreseeable future, and therefore, did not warrant listing under the ESA (63 FR 11482, 11493; March 9, 1998). The Petitioners essentially request NMFS to

revisit our previous conclusion based on more recent information and the current status of this ESU.

Analysis of Petition

The Petition contains information and arguments in support of listing Chinook salmon under the three alternatives recommended by the Petitioners. The Petitioners also include information on spring-run and fall-run Chinook salmon, including life history and physiology, diet, associated fish species, habitat requirements, historic and current distribution, and population status and trends.

Under the first recommended alternative, the Petitioners present new genetic evidence to suggest the spring-run Chinook salmon populations in the Upper Klamath and Trinity Rivers ESU may qualify as a separate ESU from the fall-run populations. They also present information indicating the spring-run Chinook salmon may meet the ESU criteria: (1) They are substantially reproductively isolated, and (2) represent an important component in the evolutionary legacy of the species. The Petitioners also argue that the genetic differentiation in the Upper Klamath and Trinity Rivers ESU runs is scaled similarly to the Central Valley Chinook salmon runs, and that the designation of Central Valley spring and fall runs as separate ESUs sets a precedent for the Upper Klamath and Trinity Rivers ESU Chinook salmon runs to be managed separately.

Under the second recommended listing alternative, the Petitioners present arguments that spring-run Chinook salmon in the Upper Klamath and Trinity Rivers ESU meet the two criteria to be considered a DPS: Discreteness and significance. As we described above, NMFS' policy is to list Pacific salmon stocks, such as Chinook salmon, as an ESU under the criteria described in the ESU Policy (56 FR 58612; November 20, 1991) rather than a DPS under the criteria described in the DPS Policy (61 FR 4722; February 7, 1996).

Under the third recommended listing alternative, the Petitioners argue spring-run populations are important to the overall viability of the Upper Klamath and Trinity Rivers Chinook salmon ESU and their status justifies listing the entire ESU.

The Petitioners also present substantial information on the status of spring-run and fall-run Chinook salmon populations in the Upper Klamath and Trinity Rivers Basin. They cite numerous reports describing the significant decline and low numbers in the populations of the two runs of fish

that additionally are increasingly dominated by hatchery fall-run Chinook salmon (e.g., Moyle *et al.* 2008; National Research Council 2004). The Petitioners also provide a detailed description and an analysis of the five listing factors in support of their contention that spring-run or the entire Upper Klamath and Trinity Rivers Chinook salmon ESU warrants listing. According to the petition, a history of dams, mining, water diversions, habitat degradation, disease, and fisheries, among other factors, have played a key role in the decline of the populations.

Petition Finding

Based on the information contained in the petition, which is summarized above, and the criteria specified in 50 CFR 424.14(b)(2), we find that the petition presents substantial scientific and commercial information indicating that the petitioned actions concerning listing spring-run Chinook salmon in the Upper Klamath and Trinity Rivers Basin as a separate ESU or listing the entire Upper Klamath and Trinity Rivers Chinook salmon ESU may be warranted. Accordingly, we will convene a biological review team (BRT) to assess the status of Upper Klamath and Trinity Rivers Chinook salmon and evaluate the petitioned actions. The BRT will: (1) Compile and evaluate biological and ecological information necessary to assess whether the spring-run component of the currently defined ESU should be a separate ESU, and if so, compile and evaluate biological information necessary to assess its status; and (2) if the spring-run component does not warrant delineation as a separate ESU, it will compile and evaluate biological and ecological information necessary to assess the status of the currently defined ESU. In addition, the BRT will evaluate Chinook salmon hatchery stocks and programs in the Upper Klamath and Trinity Rivers Basin to assess the level of divergence between hatchery and naturally spawning stocks. We will use the results of this status review in making a determination as to whether or not the petitioned actions are warranted.

Under section 4(b)(3)(A) of the ESA (16 U.S.C. 1533(b)(3)(A)), this finding requires NMFS to commence a status review of the species. We are now initiating this review, and thus, the Upper Klamath and Trinity Rivers Chinook salmon ESU is considered a candidate species (50 CFR 424.02(b)). Within 12 months of the receipt of the petition (by January 28, 2012), we will make a finding as to whether the petitioned actions are warranted as required by section 4(b)(3)(B) of the ESA

(16 U.S.C. 1533(b)(3)(B)). If any of the petitioned actions are warranted, we will publish a proposed rule and solicit public comments before preparing a final rule.

Information Solicited for Status Review

To ensure the status review is based on the best available scientific and commercial data, we are soliciting information on Chinook salmon in the Upper Klamath and Trinity Rivers Basin. We request information from the public, concerned governmental agencies, Native American Tribes, the scientific community, agricultural and forestry groups, conservation groups, fishing groups, industry, and any other interested parties concerning the current and/or historical status of Chinook salmon in the Upper Klamath and Trinity Rivers Basin. Specifically, we request information on: (1) Historic and current distribution, presence, and abundance of this species throughout its range; (2) historic and current life history traits of spring-run and fall-run populations; (3) historic and current Chinook salmon habitat conditions; (4) population status and trends; (5) genetic population structure of spring-run and fall-run; (6) reproductive isolation of spring-run and fall-run; (7) information on any current or planned activities that may adversely impact the species, including but not limited to commercial, recreational, and Tribal harvest, especially as related to the five factors specified in section 4(a)(1) of the ESA (16 U.S.C. 1533(a)(1)) and listed above; and (8) ongoing efforts to protect and restore the species and its habitat.

We request that all information be accompanied by: (1) Supporting documentation such as maps, bibliographic references, or reprints of pertinent publications; and (2) the submitter's name, address, and any association, institution, or business that the person represents. Please note that submissions merely stating support for

or opposition to the action under consideration without providing supporting information, although noted, will not be considered in making a determination based on the best available scientific and commercial data.

Critical Habitat

Section 3(5) of the ESA (16 U.S.C. 1532(5)) defines critical habitat as: (1) Specific areas within the geographical area occupied by the species at the time of listing, on which are found those physical or biological features that are essential to the conservation of the listed species and that may require special management considerations or protection; and (2) specific areas outside the geographical area occupied by the species at the time of listing that are essential for the conservation of a listed species. Critical habitat shall be specified to the maximum extent prudent and determinable at the time the species is proposed for listing. If designation of critical habitat is not prudent or determinable, the reasons will be stated in the 12-month finding.

We also request information on areas that may qualify as critical habitat for Chinook salmon in the Upper Klamath and Trinity Rivers Basin. Areas that include the physical and biological features essential to the conservation of the species should be identified. Areas outside the present range should also be identified if such areas are essential to the conservation of the species. Essential features may include, but are not limited to: (1) Space for individual and population growth and for normal behavior; (2) food, water, air, light, minerals, or other nutritional and physiological requirements; (3) cover or shelter; (4) sites for breeding, reproduction, or rearing of offspring; and (5) habitats that are protected from disturbance or are representative of the historic geographical and ecological

distributions of the species (50 CFR 424.12(b)).

For areas having physical and biological features that may be essential to conservation, We request information describing: (1) The activities that affect the essential features or that could be affected by the designation; and (2) the economic costs and benefits of management measures likely to result from the designation. NMFS is required to consider the probable economic and other impacts on proposed or ongoing activities in making a final critical habitat designation (50 CFR 424.19).

Peer Review

On July 1, 1994, NMFS and USFWS (the Services) jointly published a series of policies regarding listings under the ESA, including a policy for peer review of scientific data (59 FR 34270). In addition, on January 14, 2005, the Office of Management and Budget (OMB) published its Final Information Quality Bulletin for Peer Review (70 FR 2664). The purpose of the Services' peer review policy is to ensure listings are based on the best scientific and commercial data available. The purpose of the OMB Bulletin is to enhance the quality and credibility of the government's scientific information. We are soliciting the names of recognized experts in the field that could take part in the peer review process for this status review. Independent peer reviewers can be selected from the academic and scientific community, Tribal and other Native American groups, Federal and State agencies, the private sector, and public interest groups.

Authority: 16 U.S.C. 1531 *et seq.*

Dated: April 6, 2011.

Samuel D. Rauch III,
*Deputy Assistant Administrator for
Regulatory Programs, National Marine
Fisheries Service.*

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