

# Active West Coast Hydrokinetic Projects

Report developed by the Pacific Fishery Management Council

Wednesday, August 17, 2011

Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
<b>California</b>				
<b>P-13376</b>	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.	On 3/21/2011, FERC asked applicant why projects should not be suspended. Submitted progress report 7/25/2011. All operations suspended pending funding.	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: 8/1/2011				
<b>P-13378</b>	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. Filed progress report 7/25/2011.	
Last updated: 8/1/2011				
<b>P-13377</b>	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. Submitted progress report 7/25; cannot open due to technical problems. Probably similar to Fort Ross North project.	Pilot project. Initially 2-5 MW; eventually 40-200 MW.
Last updated: 8/1/2011				

\* = FERC-related activity since last report. FERC = Federal Energy Regulatory Commission. MIMS = 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-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. Conducting studies and consultations. Status report says they have consulted with PFMC, but this has not occurred yet. Submitted progress report 7/15/2011. Conducting general studies.	60 turbines/square mile, 1000 mW
Last updated: 8/1/2011				
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.Submitted progress report 4/27/2011.  Conducting meetings with stakeholders. Plans to revise NOI and PAD, and resubmit in October '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: 8/1/2011				

## Oregon

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Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
None yet				
<b>Aquamarine Power Offshore Wind Power Project (NEW)*</b>		Lincoln County or Tillamook County, Oregon. Device would be deployed in less than 50 feet of water.	Received study grant from Oregon Wave Energy Trust in Nov 2010. Proposing 2000-2500 acres for lease (state waters). Goal is to have three devices in demonstration by 2013.	Oyster wave energy technology. Devices act as pumps; energy generation occurs on shore. Device already installed and working in Scotland. See <a href="http://www.oregonwave.org/waiting-for-wave-energy/">http://www.oregonwave.org/waiting-for-wave-energy/</a>
	Last updated: 8/2/2011		Waiting for Oregon's ocean zoning process to get to the point where permits can be approved.	
<b>P-12749</b>				
<b>Coos Bay OPT Wave Park</b>	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. (No action on website since 3/1/2011)	200-400 buoys, 100 mW; annual generation of 276,000 megawatt-hours
	Last updated: 8/1/2011		PAD submitted	
<b>P-12743</b>				
<b>Douglas County Project (Douglas County)*</b>	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. Submitted schedule of activities 3/23/2011, and progress report 4/22. Drafting engineering specifications, conducting engineering studies.	One jetty-based structure
	Last updated: 8/1/2011		PAD submitted	

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Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
Needs MMS lease	Principle Power Offshore Wind Project*	Off Tillamook or Garibaldi, OR. Project will begin with a single WindFloat floating turbine (243 feet); to expand to 15 square miles (20-unit arrays, 1/4-1/2 mile long) capable of generating 150 to 200 mW.	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. 4/2011- TIDE & PP filed federal feasibility grant application. 5/11 - TIDE held public meeting. Looking at Coos Bay for construction of turbines. Needs MMS lease/license.	30 wind turbines, 5 MW each (150 MW)
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 NFMS, USFWS. USFWS submitted BiOp 5/5/2011. Federal consistency review begun by Oregon Dept. of Land Conservation & Development, 5/2011. Project continues to move forward.	10 OPT PowerBuoys (50 mw), in 3-4 rows.
P-13666	Reedsport OPT Wave Park, Phase III*	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. Submitted schedule of activities 5/2011. Working with stakeholders, agencies.	100 PowerBuoys (50 MW) adjacent to Phase I project (P-12713). 2.5 mile long subsea transmission cable.
	Last updated: 8/1/2011			

## Washington

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Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
<b>P-12690</b> 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 6/30/2011. Consulted with NMFS and other agencies. Conducted ROV work in area. Planning for laying undersea cable. Some concern about proximity to undersea cables.	Two 10-meter, 500 kW open-center turbines (OpenHydro Group), mounted on submerged foundations (underwater). Less than 5 MW.
Last updated: 8/1/2011			Continuing studies and planning for deployment.	
<b>P-12687</b> 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 6/30/2011; focuses on Admiralty Inlet project.	Four 66-foot turbines, 1.6 megawatts each, 25 feet above sea floor. 6.4 MW; 20.7 gigawatts annually
Last updated: 8/1/2011			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.	

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# Defunct West Coast Hydrokinetic Projects

Slate	Project	FERC number	Type	Location	Recent events
California	Humboldt County Wave Project (PGE)	P-12753	Defunct	Trinidad. Research area: 8 square miles; final size between 2-3 square miles. 20-40 fm (120-240 feet). 2-4 miles off shore	Preliminary permit surrendered. (Spring 2009)
	Humboldt WaveConnect Project (PGE)*	P-12779	Defunct	Eureka/Samoa. 10-20 buoys. 60-600 feet in depth. 2-3 miles from shore.	PGE withdrew application due to evolving regulatory process, environmental uncertainties, current state of technology, and financial hurdles.
	Fairhaven OPT Wave Power Project	P-12780	Defunct	Eureka. .5 mile wide by 4 miles long (n/s), 22-26 fm	Competing application in same location chosen over this one. (Spring 2008)
	Mendocino WaveConnect Project (PGE)	P-12781	Defunct	Fort Bragg. Research area: 68 square miles. 60-600 feet in depth. 0.5 to 6 miles from shore.	According to NMFS, PG&E plans to cancel this project because the harbor was determined to be unsuitable (too dangerous) to barge big machinery back and forth. (Spring 2009)
	Mendocino Wave Energy Project (Chevron)	P-12806	Defunct	Fort Bragg	Application withdrawn 8/31/07. Apparently the "lengthy approval process" in California led Chevron to pursue an opportunity in Alaska instead.
	Green Wave San Luis Obispo Wave Park*	P-13052	Defunct	Morro Bay. 3.1 x 7.1 miles. 1-3.5 miles from shore, 90-360 feet deep.	FERC cancelled their permit 9/23/10. Green Wave protested and asked for a rehearing. FERC said no. Green Wave never contacted CDFG or NMFS.
	Green Wave Mendocino Wave Park*	P-13053	Defunct	Mendocino. 2.5 x 6.9 miles (study area), up to 2.6 miles offshore, 120-390 feet deep.	FERC cancelled their permit 9/23/10. Green Wave protested and asked for a rehearing. FERC said no. Green Wave never contacted CDFG or NMFS.
	Centerville OPT Wave Energy Park	P-13075	Defunct	Eureka. 7.025 square miles, 2.5 miles offshore.	Permit surrendered 5/29/09 "to focus on Coos Bay & Reedsport projects."
	Sonoma Coast Hydrokinetic Energy (Sonoma Co.)	P-13076	Defunct	Sonoma Co.	Rejected - area too large, technology not specified.
	San Francisco Ocean Energy Project (Grays Harbor Ocean Energy)	P-13308	Defunct	20-30 miles off the coast, west of San Francisco, on the Outer Continental Shelf, within the boundaries of the Gulf of the Farallones NMS. Not visible from shore. Seafloor is sand, gravel, and mud. Considering using structures as artificial reefs.	Permit dismissed by FERC 4/17/09 because this is on the outer continental shelf and now under the jurisdiction of MMS.

State	Project	FERC number	Type	Location	Recent events
California	Ventura Ocean Energy Project (Grays Harbor Ocean Energy)	P-13309	Defunct	20-25 miles off the coast, on the Outer Continental Shelf (but elsewhere in the application it says 5-10 miles offshore). Not visible from shore. Seafloor is sand, gravel, and mud. Considering using structures as artificial reefs.	Permit dismissed by FERC 4/17/09 because this is on the outer continental shelf and now under the jurisdiction of MMS.
	Swave Catalina Green Wave Power Project (SARA, Inc.)*	P-13498	Defunct	3/4 mile off west coast of Santa Catalina Island, Los Angeles County, between China Point and Ben Westin Point. 225-300 feet deep. .875 sq nm footprint. Undersea cable to Avalon. Located in EFH for groundfish, HMS, CPS.	Preliminary permit surrendered 11/9/2010.
	PGE Central Coast WaveConnect Project	P-13641	Defunct	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. Surrendered permit 5/3/2011.
	San Francisco Oceanside Wave Energy Project (City and County of S.F.)	P-13779	Defunct	Eight miles west of San Francisco in the "exclusion zone" of the Monterey Bay National Marine Sanctuary (the area excluded from the sanctuary), near the outfall of a waste water treatment plant (therefore minimizing project impacts).	FERC dismissed application 4/30/09 because it is on the outer continental shelf and MMS now has jurisdiction. Permit number now applies to hydro project in midwest.
Oregon	Columbia River project (Oregon Tidal Energy Co.)	P-12672	Defunct	Lower Columbia River bottom.	Preliminary permit surrendered - "insufficient development potential exists for either a full development or tidal project." (3/2008)
	Lincoln County Wave Energy Research & Demonstration Center (Lincoln Co.)	P-12727	Defunct	Lincoln County	Dismissed by FERC (5/2008)



State	Project	FERC number	Type	Location	Recent events
Oregon	Newport OPT Wave Park	P-12750	Defunct	Newport/ Waldport. 200-400 buoys in 3-6 rows parallel to the beach. 3.5 miles wide (e/w) by 5 miles long (n/s); eventually as little as 0.4 miles by 3.1 miles, 20-35 fm, 3-6 miles off coast of Lincoln County	Preliminary permit surrendered 4/15/2009 in order to focus on Coos Bay and Reedsport projects.
	Coos County Wave Project (Finavera)	P-12752	Defunct	Bandon. 5.5 square mile water footprint, 1.6 miles e/w by 3.4 miles n/s.	Permit cancelled 6/26/08 because no progress report or PAD was filed.
	Florence Wave Park Project (Energetech)	P-12793	Defunct	Florence. Each structure's footprint is 35x15 meters, not counting cables. Structures extend 7 meters above water and 15 below.	Proposal withdrawn - no reason given. (Spring 2008)
	Oregon Coastal Wave Energy Project (Green Wave, TIDE)*	P-13047	Defunct	Nehalem, Rockaway, Garibaldi, Netarts, Nestucca, and Neskowin.	TIDE surrendered preliminary permit. (Summer 2010)
Washington	Makah Bay Offshore Wave Energy Pilot Project (Finavera)	DI02-3	Defunct	Makah Bay (Neah Bay). 60x240 feet at ocean surface; 625x450 feet at ocean floor. Sandy bottom with rocky outcroppings.	Five-year license issued December 21, 2007. Finavera withdrew project in order to focus on wind energy.
	Tacoma Narrows (Tacoma Power)	P-12612	Defunct	Tacoma Narrows, Puget Sound. In estuary (HAPC). Footprint unknown.	Found that tidal power in Tacoma Narrows may not be economically or technically feasible at this time. (2/2009)
	Rich Passage (Snohomish PUD)	P-12688	Defunct	Rich Passage, Puget Sound. Bay/estuary habitat; 15-22 m deep; gravel seafloor; commercial & naval traffic.	Surrendered preliminary permit 10/7/08.
	Spieden Channel (Snohomish PUD)	P-12689	Defunct	Spieden Channel, Puget Sound. Bay/estuary habitat; 80 m. deep; gravel seafloor; commercial fishing use (salmon)	Submitted PAD 1/31/08. Filed progress report in January 2010. Conducting meetings and consultations with various communities, tribes, and agencies (including NMFS). No activity since April 2010. This project appears to be defunct (Snohomish is focusing on Admiralty inlet), but the permit has not been formally revoked.
	Agate Passage (Snohomish PUD)	P-12691	Defunct	Agate Passage, Puget Sound. Bay/estuary habitat; 10 m. deep; sand/gravel floor; used by pleasure craft	Surrendered preliminary permit 10/07/08

Recent events

Location

Type

FERC number

Project

State

State	Project	FERC number	Type	Location	Recent events
Washington	San Juan Channel (Snohomish PUD)	P-12692	Defunct	San Juan Channel, Puget Sound. Bay/estuary habitat; 135+ m. deep; gravel seafloor; commercial fishing use (salmon)	Surrendered permit for this site - not feasible. (10/2009)
	Guemes Channel (Snohomish PUD)	P-12698	Defunct	Guemes Channel, Puget Sound. Bay/estuary habitat; 15 m. deep; gravel seafloor; commercial shipping traffic.	Submitted PAD 1/31/08. Filed progress report in January 2010. Conducting meetings and consultations with various communities, tribes, and agencies (including NMFIS). This project appears to be defunct (Snohomish is focusing on Admiralty Inlet), but the permit has not been formally revoked.
	Willapa Bay Tidal Energy Plant Water Power Project (Natural Currents)	P-12729	Defunct	Willapa Bay. 825 meters SSW of State Road 105, 365 m offshore. Footprint unknown. Estuarine habitat. Aiming for installation in 2010.	Permit canceled (8/2009) because applicant did not file NOI and draft permit application.
	Grays Harbor Ocean Energy and Coastal Protection (Washington Wave Co.)*	P-13058	Defunct	Grays Harbor. Up to 28 square miles. 1-3 miles offshore, 10-70 feet in depth. West of Ocean Shores and Westport.	Submitted six-month progress report in January. FERC informed them their draft NOI was overdue 8/4. No correspondence since. FERC cancelled preliminary permit 9/21/2010.
	Green Hydropower Grand Coulee Project (inland waters)	P-13522	Defunct	One quarter mile below Grand Coulee dam.	Applicant voluntarily withdrew application 7/2010.
	Green Hydropower Chief Joseph Project (inland waters)	P-13525	Defunct	Just below Chief Joseph dam near Highway 17 bridge (salmon habitat)	Applied for preliminary permit 6/19/09. Application withdrawn January 2010.
	Green Hydropower Rocky Reach Project (inland waters)	P-13534	Defunct	On the Columbia River just below the Rocky Reach dam. (Salmon habitat)	Application for preliminary permit submitted 7/07/09. Revised application submitted 8/17/09. Motion to intervene by WDFW. Application withdrawn Jan 2010.



# United States Department of the Interior

BUREAU OF RECLAMATION  
Washington, DC 20240

IN REPLY REFER TO:

**AUG 19 2011**

**RECEIVED**

**AUG 25 2011**

**PFMC**

96-42020  
PRJ-1.10

Mr. Dan Nelson  
Executive Director  
San Luis & Delta-Mendota Water Authority  
P.O. Box 2157  
Los Banos, CA 93635

Dear Mr. Nelson:

I am responding to your letter of June 3, 2011, regarding the preparation of a biological opinion on the effects of Central Valley Project (CVP) and State Water Project (SWP) operations on the delta smelt and its designated critical habitat. Specifically, you are requesting that the San Luis & Delta-Mendota Water Authority (Authority) and the State Water Contractors (SWC) be granted applicant status as defined under the regulations implementing the Endangered Species Act (ESA).

As stated in your letter, ESA Section 2(c)(2) states that Federal agencies shall cooperate with State and local agencies to resolve water resource issues in concert with conservation of endangered species. An applicant is defined in the regulations implementing the ESA as any person or entity that requires formal approval or authorization from a Federal agency as a prerequisite to conducting an action. CVP and SWP operations are carried out in an integrated manner under the terms of the congressionally authorized "Agreement Between the United States of America and the State of California for the Coordinated Operation of the Central Valley Project and State Water Project," agreements implementing the Federal San Luis Act, as well as joint responsibilities under the State Water Resources Control Board's Decision 1641. Therefore, the Department of the Interior, through the Bureau of Reclamation, expects to engage the California Department of Water Resources (DWR) as an applicant in the court-ordered consultation process.

After considering your request, the Department has determined that the Authority and SWC do not meet the definition of an applicant for the purposes of this Section 7 consultation. Reclamation and DWR both retain responsibility for operations of the CVP and SWP, respectively. However, the Department believes that your organizations' participation is important and has identified two special status designations for which your organizations qualify to participate in the consultation and associated processes:

- As designated non-Federal representatives under ESA as was granted to your organizations in the 2008 consultation process.
- As cooperating agencies under the National Environmental Policy Act (NEPA).

As designated non-Federal representatives, you would be allowed to participate in updating portions of the biological assessment during the informal consultation process. Staff members in your organizations have a technical understanding of the projects, their operations, and the biological processes in the Central Valley. This technical expertise would be a valuable asset in the consultation process. Moreover, the contractual relationships between your organizations, Reclamation, and DWR leads Reclamation to conclude that it would be appropriate to designate each organization as a non-Federal representative. This contractual relationship gives your organizations a unique interest in the outcome of the consultation. Please be advised that designation as non-Federal representatives allows for your representatives to participate during the "informal" consultation process, which includes that period of time when the update to portions of the biological assessment is being developed. However, it does not enable the Authority or SWC to participate in the formal consultation after completion of the update to portions of the biological assessment.

As cooperating agencies under NEFA, the Authority and SWC would be provided the opportunity to participate in the development and review of environmental documentation assessing the impacts of any reasonable and prudent alternative resulting from the Section 7 consultation. Specifically, Reclamation would solicit cooperation from the Authority and SWC to ensure that environmental issues relating to your organizations' technical expertise are properly addressed in the Environmental Impact Statement (EIS). The Authority and SWC would be asked to provide input and review of the EIS, identify issues, provide information, and review relevant portions of the EIS specific to your technical expertise. Your specific responsibilities would be outlined in memoranda of understanding and would include providing input regarding the Authority's and SWC's activities and the activities of your member districts as well as the potential effects of proposed actions on the activities of the Authority and SWC and the activities of your member districts.

I appreciate your interest in the consultation and look forward to your participation. Should you require additional information, please contact Mr. Donald Glaser, Regional Director, Mid-Pacific Region, Bureau of Reclamation, at 916-978-5000.

Sincerely,



Michael L. Connor  
Commissioner

Identical Letter Sent To:

Mr. Terry L. Erlewine  
General Manager  
State Water Contractors  
1121 L Street, Suite 1050  
Sacramento, CA 95814

cc: Honorable Michael L. Connor  
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Honorable Dianne Feinstein  
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Mr. Donald McIsaac  
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Pacific Fishery Management Council  
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Portland, OR 97220

STATUS REPORT OF THE 2011 OCEAN SALMON FISHERIES OFF WASHINGTON, OREGON, and CALIFORNIA.

Preliminary Data Through August 31, 2011<sup>a/</sup>

Fishery and Area	Season Dates	Effort Days Fished	CHINOOK			COHO <sup>b/</sup>		
			Catch	Quota	Percent	Catch	Quota	Percent
<b>COMMERCIAL</b>								
Treaty Indian <sup>c/</sup>	5/1-6/30	285	9,800	19,750	50%		Non-Retention	
	7/1-9/6	270	21,177	21,250	100%	6,763	42,000	16%
Non-Indian North of Cape Falcon <sup>d/</sup>	5/1-6/30	1,529	20,412	20,600	99%		Non-Retention	
	7/1-9/7	767	9,364	10,300	91%	2,995	12,800	23%
Cape Falcon - Humbug Mt.	4/15-8/31	2,600	24,000	None	NA		Non-Retention	
Humbug Mt. - OR/CA Border	5/1-5/31	62	622	NA	NA		Non-Retention	
	6/1-6/30	48	235	1,500	16%		Non-Retention	
	7/1-7/31	21	35	1,200	3%		Non-Retention	
	8/1-8/31	80	336	1,000	34%		Non-Retention	
OR/CA Border - Humboldt S. Jetty	7/2-7/18	155	1,576	1,400	113%		Non-Retention	
	8/1-8/2	50	813	880	92%		Non-Retention	
Humboldt S. Jetty - Horse Mt.				Closed				
Horse Mt. - Pt. Arena	7/23-8/29	1,400	37,600	None	NA		Non-Retention	
	9/1-30	NA	NA	None	NA		Non-Retention	
Pt. Arena - Pt. Sur	5/1-5/31	1,400	10,700	None	NA		Non-Retention	
	6/25-8/29	1,900	17,300	None	NA		Non-Retention	
	9/1-30	NA	NA	None	NA		Non-Retention	
Pt. Reyes-Pt. San Pedro	10/3-14	NA	NA	None	NA		Non-Retention	
Pt. Sur - U.S./Mexico Border	5/1-8/29	200	1,000	None	NA		Non-Retention	

<b>RECREATIONAL</b>								
U.S./Canada Border - Cape Falcon <sup>e/f/</sup>	6/18-6/25	5,032	2,396	2,396	100%		Non-Retention	
U.S./Canada Border - Cape Alava <sup>e/f/</sup>	6/26-9/18	10,099	2,755	3,330	83%	2,962	5,990	49%
Cape Alava-Queets River <sup>e/f/</sup>	6/26-9/18	3,704	1,410	1,410	100%	1,826	2,550	72%
	9/25-10/10	NA	NA	50	NA	NA	50	NA
Queets River - Leadbetter Pt. <sup>e/f/</sup>	6/26-9/18	27,275	16,736	17,600	95%	12,073	24,860	49%
Leadbetter Pt.-Cape Falcon <sup>e/f/</sup>	6/26-9/30	29,311	6,548	7,710	85%	25,493	33,600	76%
Cape Falcon - Humbug Mt.	3/15-9/30	24,720	1,387	None	NA		Non-Retention	
	7/2-8/13	Included Above		NA	NA	6,129	15,000	41%
	9/1-7	Included Above		NA	NA		5,900	0%
Humbug Mt. - OR/CA Border (OR-KMZ)	5/14-9/5	3,100	550	None	NA		Non-Retention	
OR/CA Border - Horse Mt. (CA-KMZ)	5/14-9/5	14,300	10,100	None	NA		Non-Retention	
Horse Mt. - Pt. Arena (Ft. Bragg)	4/2-10/30	13,500	6,800	None	NA		Non-Retention	
Pt. Arena - Pigeon Pt. (San Francisco)	4/2-10/30	22,500	12,000	None	NA		Non-Retention	
Pigeon Pt. - U.S./Mexico Border (Monterey)	4/2-9/18	25,900	11,800	None	NA		Non-Retention	

TOTALS TO DATE (through 8/31)	Effort			Chinook Catch			Coho Catch		
	2011	2010	2009	2011	2010	2009	2011	2010	2009
<b>TROLL</b>									
Treaty Indian	555	900	799	30,977	31,852	12,217	6,763	7,173	60,563
Washington Non-Indian	2,022	2,383	1,853	26,945	44,776	12,196	2,578	1,966	16,392
Oregon	3,085	4,008	555	28,059	37,407	708	417	1,003	12,523
California	5,105	1,979	0	68,989	15,098	0	0	0	0
<b>Total Troll</b>	<b>10,767</b>	<b>9,270</b>	<b>3,207</b>	<b>154,970</b>	<b>129,133</b>	<b>25,121</b>	<b>9,758</b>	<b>10,142</b>	<b>89,478</b>
<b>RECREATIONAL</b>									
Washington Non-Indian	63,586	72,450	92,476	28,301	34,640	11,901	36,744	30,294	126,104
Oregon	31,523	40,424	75,816	2,931	3,549	1,093	5,610	16,827	88,434
California	76,200	46,673	2,515	38,185	14,289	302	0	171	0
<b>Total Recreational</b>	<b>171,309</b>	<b>159,547</b>	<b>170,807</b>	<b>69,417</b>	<b>52,478</b>	<b>13,296</b>	<b>42,354</b>	<b>47,292</b>	<b>214,538</b>
<b>PfMC Total</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>224,387</b>	<b>181,611</b>	<b>38,417</b>	<b>52,112</b>	<b>57,434</b>	<b>304,016</b>

a/ Washington sport estimates are through August 29.

b/ All non-Indian coho fisheries are mark-selective.

c/ Treaty Indian effort is reported as landings.

d/ Numbers shown as Chinook quotas for non-Indian troll and recreational fisheries North of Falcon are guidelines rather than quotas; only the total Chinook allowable catch is a quota.

e/ Mark-selective fishery for Chinook

f/ Original quota of 4,800 marked Chinook; unharvested remainder was transferred at an impact-neutral rate (total transfer of 1,200 Chinook) into the sub-area Chinook guidelines assigned to the summer recreational fishery (non-selective for Chinook). Original summer sub-area Chinook guidelines were: 3,200 from the U.S./Canada border to Cape Alava, 1,350 from Cape Alava to the Queets River, 16,900 from Queets River to Leadbetter Pt., and 7,400 from Leadbetter Pt. to Cape Falcon.