

## **Whiting Mothership Cooperative**

An Amendment 20 Mothership Catcher Vessel Cooperative

Preliminary Report on the 2012 Pacific Whiting Fishery

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Submitted to the PFMC

## **Preliminary WMC Report on the Current Year Pacific Whiting Fishery**

### **Introduction**

In March of 2011, the owners of the thirty seven trawl limited entry catcher vessel permits (MS/CV LEPs) endorsed for operation in the Mothership sector of the Pacific whiting fishery formed a fishing cooperative to coordinate harvesting efforts. This cooperative is the Whiting Mothership Cooperative (WMC). The owners of all of the MS/CV LEPs remain members in good standing of the WMC for the 2012 fishing year.

The WMC receives an allocation of whiting based on the cumulative catch histories of the members of the cooperative. The WMC operates under the WMC Membership Agreement contract which allocates whiting to members proportionate to the contribution to the cooperative's allocation made by NMFS on the basis of the whiting catch history assigned to the Cooperative by the members.

One of the primary purposes of the WMC cooperative is the management of bycatch of the four allocated overfished rockfish species and Chinook salmon. To that end the members of the WMC have all signed a WMC Bycatch Agreement that sets out the rules for modification of fishing behaviour with which members are obligated to comply.

### **Purpose of Report**

This report is intended to disclose all information required or identified in Federal Regulations at 50 CFR 660.113(d)(3). The catch data in this preliminary report is for the 2012 fishing year beginning May 15<sup>th</sup> up through October. The catch data was provided by Sea State,, Inc. and was obtained from the NMFS – At-Sea Hake Observer Program.

### **Reporting Requirements**

The required Annual Report elements (A-E) are found in the 50 CFR 660.113(d)(3)

*(3) Annual coop report—(i) The designated coop manager for the mothership coop must submit an annual report to the Pacific Fishery Management Council for their November meeting each year. The annual coop report will contain information about the current year's fishery, including:*

- (A) The mothership sector's annual allocation of Pacific whiting and the permitted mothership coop allocation;*
- (B) The mothership coop's actual retained and discarded catch of Pacific whiting, salmon, Pacific halibut, rockfish, groundfish, and other species on a vessel-by-vessel basis;*
- (C) A description of the method used by the mothership coop to monitor performance of coop vessels that participated in the fishery;*
- (D) A description of any actions taken by the mothership coop in response to any vessels that exceed their allowed catch and bycatch; and*
- (E) Plans for the next year's mothership coop fishery, including the companies participating in the cooperative, the harvest agreement, and catch monitoring and reporting requirements.*

**(A) Annual allocation of Pacific whiting to the WMC coop**

The Mothership sector of the Pacific Whiting fishery was initially allocated 32,515 tons of whiting, followed by a re-apportionment in October of 6,720 tons. 100% of the Mothership sector whiting was allocated to the Whiting Mothership Cooperative.

**(B) The Mothership coop's actual retained and discarded catch of Pacific whiting, salmon, Pacific halibut, rockfish, groundfish, and other species on a vessel-by-vessel basis**

All thirty seven of the MS/CV endorsed trawl limited entry permit holders joined the Whiting Mothership Cooperative (WMC).

As of October 8th, seventeen MS/CVs have fished in the MS sector of the whiting fishery.

Data on the catch, as of October 8<sup>th</sup> 2012, of Whiting, Salmon, Halibut, Rockfish, Groundfish and Other Species, is shown in the tables attached tables #1 & 2(a-f) (Attachment 1). The table #1 shows the aggregate fleet catch, with a breakdown of each species category. The following tables #2(a-f) show the vessel by vessel catch for each species category. In interpreting the tables a cell with "0.00 mt" indicates at least a trace amount of this species was caught; a blank cell indicates no amount of that species was caught.

**(C) A description of the method used by the mothership coop to monitor performance of coop vessels that participated in the fishery**

The WMC retained Sea State, Inc. Inc. as the Monitoring Agent for the coop. All WMC members provide NMFS and the VMS providers with the needed

confidentiality waivers to allow Sea State, Inc. to access both Observer data and VMS data in real time.

The WMC provided Sea State, Inc. with a harvest schedule of each MS/CV's share of whiting and pro-rata portion of the allocated bycatch species. Sea State, Inc. queries the NORPAC observer database to obtain the Mothership observer reports on a daily basis. Sea State, Inc. uses this data to produce daily reports which are distributed by email to all WMC members, the Coop manager, and to the Mothership processors.

The Sea State, Inc. report shows several tables of information, including:

- the daily catch and bycatch amounts for the fleet as a whole for most recent 10 days
- the overall YTD rates and percent of whiting quota and bycatch harvested for the fleet in aggregate
- the YTD bycatch rates for each Mothership's fleet
- the YTD bycatch rates and amounts for each vessel
- the percent and amounts of whiting quota and bycatch allocations harvested by each seasonal pool
- the balance of whiting available in each seasonal pool by vessel

As MS/CV observers are debriefed, their data is incorporated into NORPAC and Sea State, Inc. updates its accounting accordingly. On the basis of the Sea State, Inc. data, the Coop manager audits vessel harvest amounts relative to the individual members' share of the quota and transfers between members to see that the coop's allocations are not exceeded.

A sample copy of a recent daily report of the season is included as Attachment 2.

**(D) A description of any actions taken by the mothership coop in response to any vessels that exceed their allowed catch and bycatch**

As of October 8th, no vessels have exceeded their allowed catch amounts under the Coop Agreement. The coop makes vessel specific whiting allocations, however, the bycatch allocations are managed as a common pool resource. This is not to say that vessels are not subject to individual accountability for bycatch performance.

The Coop agreement includes a variety of measures that serve to mitigate against the possibility of exceeding allowed catch and bycatch limits. These include:

- Precautionary closures of past bycatch hotspots.
- Night fishing restrictions
- Fleet relocation triggers and fleet to fleet reporting

- In season “hot spot” closure authority
- Seasonal apportionments (“pools”) of whiting and bycatch allowances
- Sanctions against vessels that have exceeded a bycatch rate within a seasonal pool.

### Precautionary Closures of Past Bycatch Hotspots

Prior to the beginning of the 2011 whiting fishery, the WMC created a “Bycatch Committee” which met several times to develop proposed closures that would apply seasonally. The committee reviewed GIS analysis of 10 years of at-sea observer data overlaid on fine scale bathymetry. The analysis included bycatch rates and amounts as well as amounts of whiting. VMS tracklines of high bycatch tows were also incorporated in the review. Additionally, the committee reviewed logbook information from individual captains’ historic directed rockfish experience, which provided insight into habitat associations for rockfish species.

The committee ended up recommending closure of 9 areas, totaling nearly 2000 km<sup>2</sup> which were adopted by the WMC board. The board also identified several other “cautionary” areas.

The bycatch committee met again prior to the 2012 fishing season and recommended retaining the 2011 bycatch avoidance measures. The recommendations were adopted by the board. The bycatch committee has met since the beginning of the season to review whether to modify or maintain the closures. One additional cautionary area was adopted by the board subsequent to the opening of the 2012 season.

### Night Fishing

Based on the recommendations of the bycatch committee the board adopted a restriction on night fishing between 10:00 PM and 5:30 AM prior to September 1<sup>st</sup>. The board modified the night fishing restriction for the fall, restricting night fishing inside 100 fathoms between 7:00 PM and 7:00 AM.

### Fleet Relocation and Real Time Fleet to Fleet Reporting

The Coop established Base Rates which were based on the pro-rata amounts of bycatch allocations relative to whiting allocations to the MS sector. Each Mothership processor maintains a spreadsheet reporting its fleet performance, measured against the Base Rates. The spreadsheet reports are shared each day between all the processing ships.

Each fleet's performance relative to the Base Rates constitutes a trigger requiring the fleet to relocate if they encounter a bycatch "hotspot". Relocation is required in the event of any of the following situations:

- If a fleet's three day rolling average rate of exceeds the Base Rate for any bycatch species, and that Fleet's cumulative year to date bycatch rate exceeds half of the Base Rate for that species,
- If a fleet's three day rolling average rate of exceeds 125% of the Base Rate for a bycatch species
- If a fleet's bycatch rate during any single day exceeds twice the Base Rate for a bycatch species,

This real time mechanism for response to bycatch encounters coupled with a requirement for test tows upon entering a new area, has served to avoid using up bycatch allocations.

#### In-season Hot Spot Closures

The WMC board delegated authority to Sea State, Inc. to impose In-season Hot Spot closures if they perceive a problem. However, the 'relocation' triggers described above have pre-empted the need to use this authority so far this season.

#### Seasonal Pools

The Coop divides the whiting allocation into 4 pools with various start dates. Each pool received a share of the bycatch allocations pro-rata to whiting. The Coop Agreement provides that if a pool reaches its share of the bycatch prior to harvesting its whiting allocation, the members of the pool must cease fishing.

#### Sanctions Against Member Vessels

In the event that a pool closes because of bycatch, members of that pool whose cumulative bycatch rate exceeded their pro-rata share by 25%, that vessel is restricted from harvesting additional whiting in a subsequent seasonal pool.

As of October 8<sup>th</sup>, no pool had been closed due to bycatch, nor have there been any violations of the WMC Bycatch Agreement.

**(E) Plans for the next year's mothership coop fishery, including the companies participating in the cooperative, the harvest agreement, and catch monitoring and reporting requirements**

The WMC provides that membership in the Coop continues in the following year unless a member provides notice of intent to withdraw before November 1<sup>st</sup>. At this time, no members have filed notice of intent to withdraw. The only changes in membership between 2011 and 2012 were the result of changes of ownership of two permits. Therefore the member permits will continue as in 2013, as shown in Exhibit A of the WMC Membership Agreement (Attachment 3) filed with the MS cooperative permit application NMFS for the 2012 season.

There have been no changes to the 2012 harvest agreement, catch monitoring, or reporting requirements. The board will review the Membership Agreement and consider modifications prior to the Coop Permit Renewal deadline in 2013.

## Attachment 1

Table 1 (part 1)

SpeciesName	Code	WMC FLEET TOTALS			
		Retained mt	Discard mt	Total	# of Vessels
<b>ROUNDFISH</b>	<b>Code</b>				
PACIFIC HAKE	206	18,599.23	99.88	18699.11	17
PACIFIC COD	202	0	0	0.00	2
SABLEFISH (BLACK COD)	203	0.08	0.26	0.34	8
LINGCOD	603	0.08	0.05	0.13	5
<b>FLATFISH</b>	<b>Code</b>				
REX SOLE	105	0.06	0.16	0.23	6
DOVER SOLE	107	0.01	0.02	0.03	3
ARROWTOOTH FLOUNDER (TURBOT)	141	0.92	0.84	1.76	16
KAMCHATKA FLOUNDER	147	0	0	0.00	1
<b>ROCKFISH</b>	<b>Code</b>				
PACIFIC OCEAN PERCH	301	0.41	0.77	1.18	15
WIDOW ROCKFISH	305	5.39	19.82	25.21	17
DARK BLOTCHED ROCKFISH	311	0.01	0.02	0.03	3
CANARY ROCKFISH	314	0	0.08	0.08	6
BOCACCIO	302	0	0	0.00	1
ROUGHEYE ROCKFISH	307	0.07	0.04	0.11	8
RED BANDED ROCKFISH	308	0.35	0.44	0.79	16
SILVERGRAY ROCKFISH	310	7.75	3.87	11.63	16
SPLITNOSE ROCKFISH	315	0.07	2.29	2.36	13
SHORTBELLY ROCKFISH	318	0	0	0.00	1
YELLOWMOUTH ROCKFISH	320	0.04	0	0.04	3
YELLOWTAIL ROCKFISH	321	0.92	8.9	9.82	13
REDSTRIPE ROCKFISH	324	0	0.01	0.01	3
CHILIPEPPER ROCKFISH	325	0	0	0.00	1
SHORTTRAKER ROCKFISH	326	0.01	0	0.01	1
AURORA ROCKFISH	334	0	0.01	0.01	1
BANK ROCKFISH	337	0.01	0	0.01	1
SHORTSPINE THORNYHEAD (IDIOT)	350	0.15	0.35	0.50	9
<b>REMAINING GROUND FISH SPECIES</b>	<b>Code</b>				
SQUID - UNIDENT.	50	4.43	8.12	12.56	17
OCTOPUS - UNIDENT.	60	0	0	0.00	1
PACIFIC SLEEPER SHARK	62	0	0.1	0.10	4
SOUPFIN SHARK	64	0	0.07	0.07	2
SPINY DOGFISH SHARK	66	3.11	11.82	14.94	16
SALMON SHARK	67	0	1.27	1.27	3
BROWN CAT SHARK	68	0.33	4.41	4.74	11
BLUE SHARK	69	0	0.1	0.10	1
LAMPREY - UNIDENT.	75	0.03	0	0.03	6
RATTAIL (GRENADIER) -UNIDENT.	80	0	0	0.00	3
PACIFIC ELECTRIC RAY	93	0	0.03	0.03	1
BIG SKATE	94	0	0.01	0.01	1
LONGNOSE SKATE	95	0	0.02	0.02	1
<b>PROHIBITED SPECIES - Salmon</b>	<b>Code</b>	<b>#s</b>	<b>#s</b>	<b>Total #s</b>	<b># of Vessels</b>
CHUM SALMON (DOG)	221			2	1
KING SALMON (CHINOOK)	222			196	10
SILVER SALMON (COHO)	223			4	2



Table 1 (part 2)

SpeciesName	Code	WMC FLEET TOTALS			
		Retained mt	Discard mt	Total	# of Vessels
PROHIBITED SPECIES - Other	Code				
PACIFIC HALIBUT	101	0	0.1	0.10	6
NON-GROUNDFISH SPECIES	Code				
JELLYFISH - UNIDENT.	35	0	0.36	0.36	13
CHUB MACKEREL (PACIFIC)	199	0.01	0.66	0.67	6
JACK MACKEREL	207	0.15	8.01	8.16	9
RAGFISH	280	0.3	0.44	0.74	8
OPAH	297	0	0.02	0.02	1
HUMBOLDT SQUID	511	0	0.01	0.01	2
RIBBONFISH - UNIDENT.	563	0	0.04	0.04	2
AMERICAN SHAD	606	0.15	0.03	0.18	9
KING-OF-THE-SALMON	608	0.15	0.22	0.37	10
PACIFIC SARDINE	614	0.01	0.01	0.01	4
LANTERNFISH - UNIDENT.	700	0	0	0.00	2
DUCKBILL BARRACUDINA	769	0.01	0.04	0.05	6
BARRACUDINA - UNIDENT.	770	0	0	0.00	1
PACIFIC POMFRET	775	0	0.01	0.01	2
MEDUSAFISH	776	0	0	0.00	2
TUBESHOLDER - UNIDENT	807	0	0	0.00	1
OCEAN SUNFISH	810	0.02	0.01	0.03	3
FISH WASTE (HEADS, DECOMP,ETC)	899	0	0	0.00	1
MISC - UNIDENT.	900	0	0	0.00	6
FISH - UNIDENT.	901	0	0.02	0.02	1
INVERTEBRATE - UNIDENT.	902	0	0.01	0.01	2

Table 2a (part 1)

SpeciesName	ARCTIC FURY		BAY ISLANDER		BLUE FOX	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
<b>ROUND FISH</b>						
PACIFIC HAKE	2148.383	0.000	950.969	0.000	189.135	0.000
PACIFIC COD	0.000	0.003				
SABLEFISH (BLACK COD)	0.024	0.077				
LINGCOD			0.004	0.000		
<b>FLATFISH</b>						
REX SOLE	0.000	0.071				
DOVER SOLE	0.000	0.008				
ARROWTOOTH FLOUNDER (TURBOT)	0.000	0.233	0.124	0.000	0.003	0.000
KAMCHATKA FLOUNDER						
<b>ROCKFISH</b>						
PACIFIC OCEAN PERCH	0.000	0.129	0.023	0.000	0.000	0.021
WIDOW ROCKFISH	0.104	0.428	0.270	0.000	0.260	14.807
DARK BLOTCHED ROCKFISH	0.000	0.043	0.169	0.000	0.000	0.011
CANARY ROCKFISH	0.000	0.009				
BOCACCIO						
ROUGHEYE ROCKFISH	0.054	0.913	1.843	0.000	0.000	0.056
RED BANDED ROCKFISH						
SILVERGRAY ROCKFISH			0.021	0.000		
SPLITNOSE ROCKFISH	0.000	1.733			0.034	0.077
SHORTBELLY ROCKFISH						
YELLOWMOUTH ROCKFISH						
YELLOWTAIL ROCKFISH	0.000	0.845	0.576	0.000		
REDSTRIPE ROCKFISH						
CHILIPEPPER ROCKFISH						
SHORTTRAKER ROCKFISH			0.012	0.000		
AURORA ROCKFISH						
BANK ROCKFISH						
SHORTSPINE THORNYHEAD (IDIOT)	0.035	0.101				
<b>REMAINING GROUND FISH SPECIES</b>						
SQUID - UNIDENT.	0.006	2.751	0.432	0.000	0.080	0.000
OCTOPUS - UNIDENT.						
PACIFIC SLEEPER SHARK	0.000	0.014				
SOUPFIN SHARK						
SPINY DOGFISH SHARK	0.000	3.126	0.025	0.813	0.000	0.061
SALMON SHARK			0.000	0.127		
BROWN CAT SHARK	0.000	1.542	0.000	0.005		
BLUE SHARK						
LAMPREY - UNIDENT.	0.000	0.001				
RATTAIL (GRENADIER) -UNIDENT.						
PACIFIC ELECTRIC RAY						
BIG SKATE						
LONGNOSE SKATE	0.000	0.015				
<b>PROHIBITED SPECIES - Salmon</b>		Total #s		Total #s		Total #s
CHUM SALMON (DOG)				2		
KING SALMON (CHINOOK)		11		13		
SILVER SALMON (COHO)				2		

Table 2a (part 2)

SpeciesName	ARCTIC FURY		BAY ISLANDER		BLUE FOX	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES - Other						
PACIFIC HALIBUT			0.000	0.027		
NON-GROUNDFISH SPECIES						
JELLYFISH - UNIDENT.	0.000	0.069			0.000	0.004
CHUB MACKEREL (PACIFIC)	0.000	0.012				
JACK MACKEREL	0.078	0.581			0.000	0.547
RAGFISH	0.000	0.075	0.000	0.056		
OPAH						
HUMBOLDT SQUID	0.000	0.009				
RIBBONFISH - UNIDENT.	0.000	0.013				
AMERICAN SHAD			0.005	0.000		
KING-OF-THE-SALMON	0.000	0.046			0.000	0.014
PACIFIC SARDINE	0.000	0.001				
LANTERNFISH - UNIDENT.	0.000	0.001				
DUCKBILL BARRACUDINA	0.000	0.018				
BARRACUDINA - UNIDENT.						
PACIFIC POMFRET	0.000	0.003				
MEDUSAFISH	0.000	0.005				
TUBESHOULDER - UNIDENT						
OCEAN SUNFISH	0.000	0.011				
FISH WASTE (HEADS, DECOMP,ETC)						
MISC - UNIDENT.			0.000	0.001		
FISH - UNIDENT.						
INVERTEBRATE - UNIDENT.	0.000	0.002				

Table 2b (part 1)

SpeciesName	LISA MELINDA		MARATHON		MARK I	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
<b>ROUNDFISH</b>						
PACIFIC HAKE	1695.644	99.155	990.479	0.000	2926.497	0.000
PACIFIC COD						
SABLEFISH (BLACK COD)	0.019	0.052			0.000	0.033
LINGCOD	0.013	0.006				
<b>FLATFISH</b>						
REX SOLE	0.064	0.051			0.000	0.008
DOVER SOLE	0.010	0.007				
ARROWTOOTH FLOUNDER (TURBOT)	0.142	0.077	0.116	0.000	0.000	0.236
KAMCHATKA FLOUNDER						
<b>ROCKFISH</b>						
PACIFIC OCEAN PERCH	0.349	0.002	0.026	0.000	0.002	0.062
WIDOW ROCKFISH	1.564	0.022	0.244	0.000	0.201	2.318
DARK BLOTCHED ROCKFISH	0.029	0.006	0.092	0.000	0.001	0.031
CANARY ROCKFISH					0.000	0.005
BOCACCI	0.000	0.005				
ROUGHEYE ROCKFISH	2.064	0.083	1.292	0.000	0.162	0.860
RED BANDED ROCKFISH					0.000	0.005
SILVERGRAY ROCKFISH	0.027	0.002	0.015	0.000	0.000	0.015
SPLITNOSE ROCKFISH	0.035	0.002			0.000	0.042
SHORTBELLY ROCKFISH						
YELLOWMOUTH ROCKFISH	0.033	0.000				
YELLOWTAIL ROCKFISH	0.153	0.157	0.150	0.000	0.000	3.060
REDSTRIPE ROCKFISH					0.000	0.006
CHILIPEPPER ROCKFISH						
SHORTTRAKER ROCKFISH						
AURORA ROCKFISH	0.000	0.007				
BANK ROCKFISH	0.007	0.000				
SHORTSPINE THORNYHEAD (IDIOT)	0.093	0.105	0.009	0.000	0.000	0.009
<b>REMAINING GROUND FISH SPECIES</b>						
SQUID - UNIDENT.	0.474	0.580	0.583	0.000	0.016	2.288
OCTOPUS - UNIDENT.						
PACIFIC SLEEPER SHARK	0.000	0.040				
SOUPFIN SHARK					0.000	0.022
SPINY DOGFISH SHARK	0.649	0.177	0.000	0.812	0.000	3.219
SALMON SHARK						
BROWN CAT SHARK	0.108	1.631	0.000	0.006	0.000	0.285
BLUE SHARK					0.000	0.104
LAMPREY - UNIDENT.	0.000	0.001				
RATTAIL (GRENADIER) -UNIDENT.	0.000	0.001			0.000	0.002
PACIFIC ELECTRIC RAY	0.000	0.027				
BIG SKATE						
LONGNOSE SKATE						
<b>PROHIBITED SPECIES - Salmon</b>		Total #s		Total #s		Total #s
CHUM SALMON (DOG)						
KING SALMON (CHINOOK)		41				43
SILVER SALMON (COHO)						

Table 2b (part 2)

SpeciesName	LISA MELINDA		MARATHON		MARK I	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES - Other						
PACIFIC HALIBUT					0.000	0.001
NON-GROUNDFISH SPECIES						
JELLYFISH - UNIDENT.	0.001	0.143			0.000	0.063
CHUB MACKEREL (PACIFIC)					0.000	0.409
JACK MACKEREL	0.005	0.000			0.047	0.144
RAGFISH	0.000	0.062	0.000	0.106		
OPAH					0.000	0.018
HUMBOLDT SQUID					0.000	0.004
RIBBONFISH - UNIDENT.					0.000	0.025
AMERICAN SHAD	0.023	0.000	0.068	0.000	0.010	0.009
KING-OF-THE-SALMON	0.053	0.002			0.000	0.090
PACIFIC SARDINE					0.006	0.006
LANTERNFISH - UNIDENT.	0.000	0.002				
DUCKBILL BARRACUDINA	0.000	0.009			0.000	0.009
BARRACUDINA - UNIDENT.						
PACIFIC POMFRET						
MEDUSAFISH	0.000	0.004				
TUBESHOLDER - UNIDENT	0.000	0.002				
OCEAN SUNFISH					0.000	0.004
FISH WASTE (HEADS, DECOMP,ETC)					0.000	0.004
MISC - UNIDENT.	0.000	0.005	0.000	0.002		
FISH - UNIDENT.						
INVERTEBRATE - UNIDENT.					0.000	0.008

Table 2c (part 1)

SpeciesName	MISS BERTIE		MUIR MILACH		PACIFIC PRINCE	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
PACIFIC HAKE	1746.061	0.000	1285.036	0.722	1017.398	0.000
PACIFIC COD						
SABLEFISH (BLACK COD)	0.000	0.102	0.001	0.000	0.010	0.000
LINGCOD						
FLATFISH						
REX SOLE	0.000	0.027			0.003	0.000
DOVER SOLE	0.000	0.001				
ARROWTOOTH FLOUNDER (TURBOT)	0.000	0.274	0.176	0.000	0.011	0.000
KAMCHATKA FLOUNDER						
ROCKFISH						
PACIFIC OCEAN PERCH	0.000	0.499	0.010	0.000	0.004	0.000
WIDOW ROCKFISH	0.000	0.296	1.486	0.001	0.901	0.000
DARK BLOTCHED ROCKFISH	0.000	0.029	0.008	0.000	0.016	0.000
CANARY ROCKFISH	0.000	0.023			0.004	0.000
BOCACIO			0.012	0.000		
ROUGHEYE ROCKFISH	0.000	1.750	1.147	0.000	0.393	0.000
RED BANDED ROCKFISH						
SILVERGRAY ROCKFISH			0.006	0.000		
SPLITNOSE ROCKFISH	0.000	0.037	0.012	0.002	0.003	0.000
SHORBELLY ROCKFISH						
YELLOWMOUTH ROCKFISH			0.006	0.000	0.003	0.000
YELLOWTAIL ROCKFISH	0.000	2.157	0.024	0.001		
REDSTRIPE ROCKFISH						
CHILIPEPPER ROCKFISH						
SHORTTRAKER ROCKFISH						
AURORA ROCKFISH						
BANK ROCKFISH						
SHORTSPINE THORNYHEAD (IDIOT)	0.000	0.107	0.001	0.000	0.007	0.000
REMAINING GROUND FISH SPECIES						
SQUID - UNIDENT.	0.000	1.012	0.876	0.068	1.034	0.067
OCTOPUS - UNIDENT.			0.004	0.000		
PACIFIC SLEEPER SHARK						
SOUPFIN SHARK						
SPINY DOGFISH SHARK	0.019	2.011	1.870	0.005	0.330	0.003
SALMON SHARK						
BROWN CAT SHARK	0.000	0.822	0.065	0.000	0.153	0.000
BLUE SHARK						
LAMPREY - UNIDENT.						
RATTAIL (GRENADIER) -UNIDENT.	0.000	0.002				
PACIFIC ELECTRIC RAY						
BIG SKATE						
LONGNOSE SKATE						
PROHIBITED SPECIES - Salmon		Total #s		Total #s		Total #s
CHUM SALMON (DOG)						
KING SALMON (CHINOOK)				13		11
SILVER SALMON (COHO)						10

Table 2c (part 2)

SpeciesName	MISS BERTIE		MUIR MILACH		PACIFIC PRINCE	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES - Other						
PACIFIC HALIBUT	0.000	0.037	0.000	0.010	0.000	0.012
NON-GROUNDFISH SPECIES						
JELLYFISH - UNIDENT.	0.000	0.018	0.002	0.020	0.000	0.014
CHUB MACKEREL (PACIFIC)	0.000	0.003			0.006	0.000
JACK MACKEREL	0.000	0.151			0.008	0.000
RAGFISH						
OPAH						
HUMBOLDT SQUID						
RIBBONFISH - UNIDENT.						
AMERICAN SHAD	0.000	0.019	0.009	0.000		
KING-OF-THE-SALMON	0.000	0.053	0.062	0.000	0.038	0.000
PACIFIC SARDINE	0.000	0.001				
LANTERNFISH - UNIDENT.						
DUCKBILL BARRACUDINA	0.000	0.005			0.010	0.000
BARRACUDINA - UNIDENT.	0.000	0.002				
PACIFIC POMFRET	0.000	0.006				
MEDUSAFISH						
TUBESHOULDER - UNIDENT						
OCEAN SUNFISH			0.015	0.000		
FISH WASTE (HEADS, DECOMP,ETC)						
MISC - UNIDENT.			0.000	0.003	0.000	0.001
FISH - UNIDENT.	0.000	0.018				
INVERTEBRATE - UNIDENT.						

Table 2d (part 1)

SpeciesName	PEGASUS		PERSEVERANCE		SEADAWN	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
PACIFIC HAKE	888.475	0.000	1169.873	0.000	1626.211	0.000
PACIFIC COD						
SABLEFISH (BLACK COD)	0.034	0.000				
LINGCOD			0.027	0.010	0.000	0.026
FLATFISH						
REX SOLE	0.000	0.002				
DOVER SOLE						
ARROWTOOTH FLOUNDER (TURBOT)	0.000	0.024	0.165	0.000	0.070	0.004
KAMCHATKA FLOUNDER						
ROCKFISH						
PACIFIC OCEAN PERCH			0.000	0.019	0.003	0.011
WIDOW ROCKFISH	0.358	0.454	0.000	0.258	0.013	0.528
DARK BLOTCHED ROCKFISH	0.000	0.017	0.000	0.073	0.029	0.138
CANARY ROCKFISH	0.000	0.138	0.000	0.016	0.000	0.011
BOCACCIO	0.000	0.014				
ROUGHEYE ROCKFISH	0.240	0.097	0.000	0.088	0.558	0.023
RED BANDED ROCKFISH						
SILVERGRAY ROCKFISH			0.000	0.005	0.000	0.011
SPLITNOSE ROCKFISH	0.000	0.001	0.000	0.002	0.000	0.002
SHORTBELLY ROCKFISH						
YELLOWMOUTH ROCKFISH						
YELLOWTAIL ROCKFISH			0.000	1.009	0.023	0.163
REDSTRIPE ROCKFISH						
CHILIPEPPER ROCKFISH			0.000	0.001		
SHORTTRAKER ROCKFISH						
AURORA ROCKFISH						
BANK ROCKFISH						
SHORTSPINE THORNYHEAD (IDIOT)	0.000	0.024				
REMAINING GROUND FISH SPECIES						
SQUID - UNIDENT.	0.042	1.342	0.035	0.023	0.149	0.000
OCTOPUS - UNIDENT.						
PACIFIC SLEEPER SHARK						
SOUPFIN SHARK						
SPINY DOGFISH SHARK	0.000	0.206	0.000	0.327	0.222	0.349
SALMON SHARK					0.000	0.634
BROWN CAT SHARK	0.000	0.113				
BLUE SHARK						
LAMPREY - UNIDENT.	0.000	0.001	0.006	0.000	0.006	0.000
RATTAIL (GRENADIER) -UNIDENT.						
PACIFIC ELECTRIC RAY						
BIG SKATE			0.000	0.007		
LONGNOSE SKATE						
PROHIBITED SPECIES - Salmon		Total #s		Total #s		Total #s
CHUM SALMON (DOG)						
KING SALMON (CHINOOK)		31		14		8
SILVER SALMON (COHO)		2				2



Table 2d (part 2)

SpeciesName	PEGASUS		PERSEVERANCE		SEADAWN	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES - Other						
PACIFIC HALIBUT	0.000	0.013				
NON-GROUNDFISH SPECIES						
JELLYFISH - UNIDENT.	0.000	0.013			0.002	0.000
CHUB MACKEREL (PACIFIC)	0.000	0.234				
JACK MACKEREL	0.000	0.025				
RAGFISH						
OPAH						
HUMBOLDT SQUID						
RIBBONFISH - UNIDENT.						
AMERICAN SHAD			0.005	0.000		
KING-OF-THE-SALMON					0.026	0.000
PACIFIC SARDINE						
LANTERNFISH - UNIDENT.						
DUCKBILL BARRACUDINA	0.000	0.002				
BARRACUDINA - UNIDENT.						
PACIFIC POMFRET						
MEDUSAFISH						
TUBESHOULDER - UNIDENT						
OCEAN SUNFISH						
FISH WASTE (HEADS, DECOMP,ETC)						
MISC - UNIDENT.						
FISH - UNIDENT.						
INVERTEBRATE - UNIDENT.						

Table 2e (part 1)

SpeciesName	SEA STORM		SEEKER	
	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH				
PACIFIC HAKE	369.823	0.000	1595.249	0.000
PACIFIC COD				
SABLEFISH (BLACK COD)				
LINGCOD			0.045	0.000
FLATFISH				
REX SOLE				
DOVER SOLE				
ARROWTOOTH FLOUNDER (TURBOT)	0.000	0.003	0.120	0.000
KAMCHATKA FLOUNDER			0.004	0.000
ROCKFISH				
PACIFIC OCEAN PERCH	0.000	0.002	0.000	0.027
WIDOW ROCKFISH	0.000	0.062	0.000	0.642
DARK BLOTCHED ROCKFISH	0.000	0.034	0.000	0.060
CANARY ROCKFISH			0.000	0.025
BOCACCIO				
ROUGHEYE ROCKFISH			0.000	0.002
RED BANDED ROCKFISH				
SILVERGRAY ROCKFISH			0.000	0.012
SPLITNOSE ROCKFISH	0.000	0.025	0.000	0.234
SHORTBELLY ROCKFISH				
YELLOWMOUTH ROCKFISH				
YELLOWTAIL ROCKFISH			0.000	1.505
REDSTRIPE ROCKFISH			0.000	0.001
CHILIPEPPER ROCKFISH				
SHORTTRAKER ROCKFISH				
AURORA ROCKFISH				
BANK ROCKFISH				
SHORTSPINE THORNYHEAD (IDIOT)				
REMAINING GROUND FISH SPECIES				
SQUID - UNIDENT.	0.481	0.000	0.231	0.000
OCTOPUS - UNIDENT.				
PACIFIC SLEEPER SHARK			0.000	0.045
SOUPFIN SHARK			0.000	0.050
SPINY DOGFISH SHARK	0.000	0.092	0.000	0.628
SALMON SHARK			0.000	0.507
BROWN CAT SHARK			0.000	0.003
BLUE SHARK				
LAMPREY - UNIDENT.			0.009	0.001
RATTAIL (GRENADIER) -UNIDENT.				
PACIFIC ELECTRIC RAY				
BIG SKATE				
LONGNOSE SKATE				
PROHIBITED SPECIES - Salmon		Total #s		Total #s
CHUM SALMON (DOG)				
KING SALMON (CHINOOK)				11
SILVER SALMON (COHO)				2

Table 2e (part 2)

SpeciesName	SEA STORM		SEEKER	
	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES - Other				
PACIFIC HALIBUT				
NON-GROUNDFISH SPECIES				
JELLYFISH - UNIDENT.	0.000	0.006	0.000	0.008
CHUB MACKEREL (PACIFIC)	0.000	0.006	0.000	0.005
JACK MACKEREL	0.000	4.542	0.000	2.022
RAGFISH				
OPAH				
HUMBOLDT SQUID				
RIBBONFISH - UNIDENT.				
AMERICAN SHAD				
KING-OF-THE-SALMON	0.000	0.014	0.000	0.012
PACIFIC SARDINE			0.001	0.000
LANTERNFISH - UNIDENT.				
DUCKBILL BARRACUDINA				
BARRACUDINA - UNIDENT.				
PACIFIC POMFRET				
MEDUSAFISH				
TUBESHOULDER - UNIDENT				
OCEAN SUNFISH				
FISH WASTE (HEADS, DECOMP,ETC)				
MISC - UNIDENT.				
FISH - UNIDENT.				
INVERTEBRATE - UNIDENT.				



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October 8, 2012

## Mothership whiting coop – Prior 10 day's catch and bycatch year to date

Date	Whiting	Canary	Widow	Dark blotched	POP	Chinook
9/28/12	328	0.00	3.37	0.01	0.00	39
9/29/12	522	0.00	0.17	0.00	0.00	4
9/30/12	432	0.00	0.05	0.01	0.00	8
10/1/12	395	0.00	0.03	0.00	0.00	4
10/2/12	253	0.00	0.85	0.00	0.00	2
10/3/12	656	0.00	1.63	0.02	0.00	5
10/4/12	565	0.00	14.40	0.04	0.00	10
10/5/12	405	0.00	0.01	0.00	0.00	2
10/6/12	745	0.00	0.13	0.00	0.01	43
10/7/12	149	0.00	0.94	0.01	0.02	2
Totals year to date	18,699	0.09	25.22	0.79	1.19	196
Rate year to date		0.00	1.35	0.04	0.06	0.01
2012 Allocation for Motherships	39,235	3.60	61.20	6.00	7.20	1,923
Percentage Taken	47.7%	2.5%	41.2%	13.1%	16.5%	

	Whiting	Canary	Widow	Dark blotched	POP	Chinook
1st seasonal pool total catch	9,608	0.05	18.85	0.63	0.47	96
1st pool allocation	12,741	1.17	19.87	1.95	2.34	624
Percentage Taken	75.4%	4.4%	94.9%	32.4%	20.0%	

2nd seasonal pool total catch	7,709	0.04	4.16	0.12	0.69	85
2nd pool allocation	13,237	1.22	20.65	2.02	2.43	649
Percentage Taken	58.2%	3.0%	20.1%	6.0%	28.5%	

3rd seasonal pool total catch	1,381	0.00	2.21	0.03	0.03	15
3rd pool allocation	13,256	1.22	20.68	2.03	2.43	
Percentage Taken	10.4%	0.0%	10.7%	1.6%	1.1%	

Fleet rates (year to date) – use for test i (red/yellow fails test i)

Fleet	Canary rate	Widow rate	Dark blotched rate	POP rate	Chinook rate
ARCTIC STORM	0.011	3.456	0.066	0.016	0.007
EXCELLENCE	0.005	0.539	0.016	0.090	0.011
GOLDEN ALASKA	0.000	0.265	0.135	0.025	0.007
KATIE ANN	0.000	0.034	0.008	0.508	0.000
OCEAN ROVER	0.000	1.106	0.023	0.007	0.018

Fleet rates (3-day average) – use for test i and ii. (red/yellow means fails test ii)

Fleet	Canary rate	Widow rate	Dark blotched rate	POP rate	Chinook rate
ARCTIC STORM	0.000	1.962	0.020	0.042	0.000
EXCELLENCE	0.000	0.057	0.000	0.000	0.136
OCEAN ROVER	0.000	0.015	0.000	0.004	0.027

Daily Fleet rates - use for test iii. (red/yellow means fails test iii)

Date	Vessel Name	Canary rate	Widow rate	Dark blotched rate	POP rate	Chinook rate
10/6/12	ARCTIC STORM	0.000	0.467	0.017	0.020	0.000
10/6/12	EXCELLENCE	0.000	0.057	0.000	0.000	0.136
10/6/12	OCEAN ROVER	0.000	0.030	0.000	0.008	0.037

Vessel rates YTD by pool

Pool	Harvesting vessel	Canary rate	Widow rate	Dark blotched rate	POP rate	Chinook rate
1	BAY ISLANDER	0.000	0.284	0.178	0.024	0.014
1	BLUE FOX	0.000	820.317	0.000	0.000	0.000
1	LISA MELINDA	0.000	0.884	0.019	0.195	0.023
1	MARATHON	0.000	0.247	0.093	0.026	0.000
1	MUIR MILACH	0.000	1.156	0.006	0.007	0.010
1	PERSEVERANCE	0.013	0.221	0.063	0.016	0.012
1	SEA STORM	0.000	0.168	0.091	0.004	0.000
1	SEADAWN	0.007	0.333	0.103	0.009	0.005
1	SEEKER	0.018	0.250	0.038	0.017	0.005
2	ARCTIC FURY	0.004	0.247	0.020	0.060	0.005
2	MARK I	0.002	0.861	0.011	0.022	0.015
2	MISS BERDIE	0.013	0.169	0.017	0.286	0.000
2	PEGASUS	0.000	0.914	0.020	0.000	0.035
3	BLUE FOX	0.000	5.964	0.063	0.122	0.000
3	PACIFIC PRINCE	0.000	0.886	0.015	0.004	0.011
3	SEEKER	0.000	1.456	0.032	0.011	0.020

Vessels catch YTD by pool

Pool	Harvesting vessel	Whiting (ytd)	Canary (ytd)	Widow (ytd)	Dark blotched (ytd)	POP (ytd)	Chinook (ytd)
1	BAY ISLANDER	951	0.00	0.27	0.17	0.02	13
1	BLUE FOX	17	0.00	14.04	0.00	0.00	0
1	LISA MELINDA	1,795	0.00	1.59	0.03	0.35	41
1	MARATHON	990	0.00	0.24	0.09	0.03	0
1	MUIR MILACH	1,286	0.00	1.49	0.01	0.01	13
1	PERSEVERANCE	1,170	0.02	0.26	0.07	0.02	14
1	SEA STORM	370	0.00	0.06	0.03	0.00	0
1	SEADAWN	1,626	0.01	0.54	0.17	0.01	8
1	SEEKER	1,394	0.02	0.35	0.05	0.02	7
2	ARCTIC FURY	2,148	0.01	0.53	0.04	0.13	11
2	MARK I	2,926	0.00	2.52	0.03	0.06	43
2	MISS BERDIE	1,746	0.02	0.30	0.03	0.50	0
2	PEGASUS	888	0.00	0.81	0.02	0.00	31
3	BLUE FOX	172	0.00	1.03	0.01	0.02	0
3	PACIFIC PRINCE	1,017	0.00	0.90	0.02	0.00	11
3	SEEKER	201	0.00	0.29	0.01	0.00	4

Remaining quota for 1st Pool

YTD Percentage	Whiting
Bay Islander	85.4
Blue Fox	2.9
Lisa Melinda	568
Marathon	396
Muir Milach	1,325
Perseverance	191.8
Seadawn	314.7
Sea Storm	255.6
Seeker	2.6

Remaining quota for 2nd Pool

YTD Percentage	Whiting
Arctic Fury	899
Mark I	2,347
Pegasus	1,814
Miss Berdie	467

Remaining quota for 3rd Pool

YTD Percentage	Whiting
Bay Islander	421
Blue Fox	1,121
Muir Milach	1,111
Pacific Challenger	1,178
Pacific Prince	2,885
Seastorm	2,233
Seeker	1,128
Western Dawn	1,789

4.3 Relocation of Fishing Effort. If

(i) a Fleet's three (3) day rolling average bycatch rate of Overfished Species or Chinook salmon exceeds the Base Rate for any such species, and that Fleet's cumulative annual bycatch rate for such species exceeds fifty percent (50%) of the Base Rate for such species,

(ii) a Fleet's three (3) day rolling average bycatch rate for any of such species exceeds one-hundred twenty-five percent (125%) of the Base Rate for such species, or

(iii) a Fleet's bycatch rate during any single day exceeds two-hundred percent (200%) of the Base Rate for such species, then that Fleet and the Mothership to which it delivers shall relocate their fishing effort to an area where that Fleet could reasonably expect to achieve a lower Overfished Species and Chinook salmon bycatch rate.

Note: Movement based on chinook: No move required until 50% of pro-rata share of chinook has been used. Then base rate is .06 unless fleet rate is less than .06, in which case the base rate for the fleet in question is .09.

Multiples of the base rate and their usage for movement tests.

Base rate multiple	Canary	Widow	Dark blotched	POP	Chinook	Movement test
100% (=base)	0.11	1.88	0.19	0.22	0.060	i
50%	0.05	0.94	0.09	0.11	0.030	i
125%	0.14	2.35	0.23	0.28	0.075	ii
150%	0.16	2.82	0.28	0.33	0.090	iii
200%	0.22	3.76	0.37	0.44	0.120	

Report elevated tow if rate greater than base but less than 150%. Report high tow if rate > 150% of base.

**Exhibit A****WHITING MOTHERSHIP COOPERATIVE**Members as of March, 2012

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
American Seafoods Company LLC Mike Hyde Jan Jacobs	GF0351	2025 First Avenue West Suite 900 Seattle, WA 98121
Bay Islander, Inc. Craig Cochran	GF0320	7563 Yaquina Bay Road Newport, OR 97365
Calamari LLC Craig Urness	GF0272	P.O. Box 5583 Charleston, OR 97420
Cooper, Mark E. Mark Cooper	GF0254	P.O. Box 428 Newport, OR 97365
EX-1 Corporation Mike Retherford	GF0810	880 N.E. Sturdevant Road Toledo, OR 97391
Fury Group, Inc. Michael Stone	GF0051 GF0675	4005 20 <sup>th</sup> Avenue West Suite 207 Seattle, WA 98199
F/V Leslie Lee, Inc. Raymond Hall Danny Hall Skip Woodard	GF0144	P.O. Box 2276 Newport, OR 97365
F/V Neahkahnne LLC Dale Myer Donna Parker	GF0374	2727 Alaskan Way, Pier 69 Seattle, WA 98121
Isabella Fisheries LLC Marion Larkin	GF0013	1900 W Nickerson St. Suite 213 Seattle, WA 98199
F/V Seeker, Inc. Jim Seavers	GF0109	1121 S.E. First Street Newport, OR 97365



<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
FY Fisheries, Inc. Blue Dawn Fisheries, Inc. Harvest Moon Fisheries, Inc. Yaquina Sea Dawn, Inc. Jincks, Inc. Fred Yeck	GF0572	P.O. Box 352 Newport, OR 97365
Larkin, Marion Jean	GF0136	19737 Trophy Lane Mount Vernon, WA 98274
Lisa Melinda Fisheries, Inc. David Smith Jerry Bates	GF0010	P.O. Box 1650 Newport, OR 97365
Marathon Fisheries, Inc. Kurt Cochran Craig Cochran	GF0105	P.O. Box 290 Siletz, OR 97380
MAR-GUN Fisheries, Inc. Gunnar Ildhuso, Jr.	GF0438	101 Nickerson Street Suite 340 Seattle, WA 98109
Mark I, Inc. J. Christopher Garbrick	GF0043	4225 23 <sup>rd</sup> Avenue West Suite 103 Seattle, WA 98199
Miss Berdie, Inc. TS Fisheries, Inc. Stan Schones Tom Stam	GF0517	1483 Old River Road N.E. Siletz, OR 97380
Muir Milach, Inc. Dave Fraser Dave Willmore	GF0795	P.O. Box 954 Mercer Island, WA 98040
New Life Fisheries, Inc. Kurt Cochran	GF0321	P.O. Box 290 Siletz, OR 97380

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
Nicole Fisheries LLC Don Jester David Lethin	GF0052	112 Harrison Avenue Centralia, WA 98531
North Sea, Inc. Brian North Mike Storey	GF0132	P.O. Box 207 Chinook, WA 98614
Ocean Ballad, Inc. Don Jester David Lethin	GF708	112 Harrison Avenue Centralia, WA 98531
Pacific Dawn LLC Burt Parker Chris Peterson	GF0273	2324 N.W. 90 <sup>th</sup> Street Seattle, WA 98117
Pacific Draggers, Inc. HB Lee, Inc. David Jincks Fred Yeck	GF0090	P.O. Box 352 Newport, OR 97365
Patience Fisheries, Inc. Mark E. Cooper	GF0256	P.O. Box 428 Newport, OR 97365
Phoenix Processor Limited Partnership Joe Bersch	GF0362	111 West Harrison Street Seattle, WA 98119
Retherford, Mike and Kelly	GF0515	880 N.E. Sturdevant Road Toledo, OR 97391
Sea Clipper LLC (Ocean Gold) Rich Carrol	GF0433	P.O. Box 1104 Westport, WA 98595
Sea Storm Fisheries, Inc. Arctic Storm, Inc. Dale Myer Donna Parker	GF0210	2727 Alaskan Way, Pier 69 Seattle, WA 98121

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
Traveler Fisheries LLC J. Christopher Garbrick	GF0111	4225 23 <sup>rd</sup> Avenue West Suite 103 Seattle, WA 98199
Trident Seafoods Corporation Christian Asay	GF0205	5303 Shilshole Ave. NW Seattle, WA 98117
West Coast Fishery Investments LLC (Aleutian Spray) Craig Cross	GF0154 GF0904 GF0971	5470 Shilshole Avenue N.W. Suite 300 Seattle , WA 98107
Whaley, Lloyd D. and Todd	GF0220	PO Box 310 Brookings, OR 97415
Yaquina Trawlers, Inc. Raven Enterprises, Inc. DASL, Inc. Lyle Yeck Robert Smith	GF0124	1676 N.E. Yaquina Heights Drive Newport, OR 97365