

Whiting Mothership Cooperative

An Amendment 20 Mothership Catcher Vessel Cooperative

Final Report on the 2013 Pacific Whiting Fishery

Prepared by: dave fraser, WMC Coop Manager

Submitted to the NMFS & PFMC: March 2014

WMC Report on the 2013 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 2013 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 report is for the 2013 fishing year beginning May 15th and ending December 31st. 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 48,970 tons of whiting, followed by a re-apportionment in September of 7,200 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 December 31st, 2013, eighteen MS/CVs fished in the MS sector of the whiting fishery.

Data on the catch, as of December 31st 2013, 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 "0.000 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/CVs 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 manger 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.

In addition to the email distribution of the daily report, during the 2013 Sea State implemented a website for the Coop where members can access this information. The website also provides GIS mapping of VMS tracks of any hauls where bycatch rates exceed a base rate. These high bycatch maps are shared with the shorebased and catcher-processor cooperatives, and provide members to identify historic and current hotspots with high resolution mapping.

A copy of a Sea State daily report from the last week of the fishery 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

No vessels have exceeded their allowed whiting 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.

In 2013 one pool exceeded its pro-rata share of the bycatch allocated to its seasonal pool. This involved Darkblotched rockfish and occurred in the final week of the fishery.

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 km² which were adopted by the WMC board. The board also identified several other “cautionary” areas.

The bycatch committee met again prior to the 2013 fishing season and recommended retaining the bycatch avoidance measures from the previous seasons. The recommendations were adopted by the board. The bycatch committee met during the season to review whether to modify or maintain the closures. Two additional closed areas and one cautionary area were adopted by the board during the 2013 season in response to a Darkblotched rockfish “hotspot.”

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 1st. 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. This authority was used once during the 2013 season.

Seasonal Pools

The Coop agreement provides for dividing the whiting allocation into as many as 4 pools with various start dates. During the 2013 season the whiting was

divided into 4 pools. 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.

During the 2013 season one pool was closed due to bycatch. There have not 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 1st. No members filed notice of intent to withdraw. No changes in membership between 2013 and 2014 are anticipated at this time, aside from the change of ownership of one permit. Therefore the member permits will continue as in 2014, as shown in Exhibit A of the WMC Membership Agreement (Attachment 3) filed with the MS cooperative permit application NMFS for the 2014 season.

Some refinements to the harvest agreement and catch monitoring requirements were adopted in the Third Restated Amended Membership Agreement and the Bycatch Agreement for the 2014 season. Most of the changes were minor editing changes. There were two substantive changes to the Membership Agreement. One was a modification of the deadline for rescinding a processor obligation. The second was a provision to allow vessels that had been restricted from harvesting additional whiting as a consequence of exceeding a bycatch performance standard to re-enter the fishery later in the season if the ratio of the amounts of non-whiting species to whiting available to the coop reached a certain threshold. One new provision was added to the Bycatch Agreement to improve in sharing of information when a bycatch encounter required a fleet to relocate.

Attachment 1
Table 1 (part 1)

Species Name	Code	WMC FLEET TOTALS		
ROUNDFISH	Code	Retained mt	Discard mt	Total
Whiting	206	53,406.7	173.3	53,580.0
Sablefish	203	1.505	1.498	3.003
Pollock	270	0.000	0.002	0.002
Lingcod	603	0.469	0.887	1.356
FLATFISH	Code	Retained mt	Discard mt	Total
Rex Sole	105	0.534	0.558	1.091
Dover Sole	107	0.006	0.068	0.075
Slender Sole	111	0.001	0.002	0.003
Arrowtooth Flounder	141	1.815	1.884	3.699
English Sole		0.001	0.004	0.005
Flatfish Unidentified	100?	0.000	0.000	0.000
Pacific Sanddab	120?	0.000	0.005	0.005
Flathead Sole	122?	0.000	0.004	0.004
ROCKFISH	Code	Retained mt	Discard mt	Total
Pacific Ocean Perch	301	0.465	0.668	1.133
Widow Rockfish	320	5.463	10.067	15.530
Dark Blotched Rockfish	311	1.298	2.929	4.227
Canary Rockfish	314	0.170	0.306	0.476
Greenstriped Rockfish	135	0.001	0.001	0.002
Harlequin Rockfish	176	0.000	0.001	0.001
Stripetail Rockfish	183	0.002	0.001	0.002
Bocaccio	302	0.053	0.116	0.169
Sharpchin Rockfish	304	0.000	0.025	0.025
Rougheye Rockfish	307	5.035	1.568	6.603
Silvergray Rockfish	310	0.009	0.022	0.031
Splitnose Rockfish	315	1.261	2.706	3.967
Shortbelly Rockfish	318	0.042	0.681	0.723
Blackgill Rockfish	319	0.000	0.004	0.004
Yellowtail Rockfish	321	1.842	189.042	190.884
Redstripe Rockfish	324	0.007	0.011	0.018
Chilipepper Rockfish	325	0.000	0.003	0.003
Shortraker Rockfish	326	0.010	0.000	0.010
Aurora Rockfish	334	0.000	0.001	0.001
Bank Rockfish	337	0.004	0.000	0.004
Shortspine Thornyhead	350	3.734	2.287	6.021
REMAINING GROUND FISH SPECIES	Code	Retained mt	Discard mt	Total
Squid Unidentified	50	24.366	33.277	57.643
Octopus Unidentified	60	0.016	0.014	0.030
Pacific Sleeper Shark	62	0.003	0.033	0.036
Soupfin Shark	64	0.000	0.231	0.231
Spiny Dogfish Shark	66	1.818	31.305	33.123
Salmon Shark	67	0.000	4.338	4.338
Brown Cat Shark	68	0.641	6.823	7.464
Blue Shark	69	0.000	0.073	0.073
Lamprey Unidentified	75	0.007	0.016	0.023
Pacific Electric Ray	93	0.000	0.005	0.005
Big Skate	94	0.000	0.100	0.100
Longnose Skate	95	0.035	0.167	0.202

Table 1 (part 2)

Species Name	Code	WMC FLEET TOTALS		
PROHIBITED SPECIES Salmon	Code	Retained #s	Discard #s	Total
Chinook Salmon	222	0	1983	1983
Coho Salmon	223	0	6	6
Pink Salmon	440	0	3	3
PROHIBITED SPECIES Other	Code	Retained mt	Discard mt	Total
Pacific Halibut	101	0.000	0.396	0.396
Dungeness Crab	910	0.000	0.038	0.038
NON_GROUNDFISH SPECIES	Code	Retained mt	Discard mt	Total
Jellyfish	35	0.054	1.284	1.338
Ascidian - Sea Squirt	43	0.000	0.004	0.004
Pacific Mackerel	199	0.001	0.005	0.006
Jack Mackerel	207	10.463	75.286	85.749
Pacific Saury	220	0.000	0.000	0.000
Pacific Herring	235	0.000	0.002	0.002
Ragfish	280	0.002	0.600	0.601
Eelpout Unidentified	511	0.000	0.006	0.006
Humboldt Squid	511	0.034	0.008	0.042
Surf Smelt	515	0.012	0.000	0.012
Ribbonfish Unidentified	563	0.018	0.000	0.018
Pacific Lamprey	600	0.001	0.025	0.026
American Shad	606	0.751	0.385	1.136
King-of-the-Salmon	608	0.012	0.440	0.451
Pacific Sardine	614	0.000	0.180	0.180
Thresher Shark	689	0.000	0.362	0.362
Lanternfish Unidentified	700	0.003	0.011	0.014
Sandpaper Skate	700	0.000	0.001	0.001
Duckbill Barracudina	769	0.004	0.018	0.021
Pacific Pomfret	775	0.000	0.005	0.005
Medusafish	776	0.000	0.040	0.040
Tubeshoulder Unidentified	807	0.000	0.002	0.002
Ocean Sunfish	810	0.025	0.089	0.114
Fish Waste	899	0.003	0.010	0.013
Miscellaneous Unidentified	900	0.000	0.005	0.005
Fish Unidentified	901	0.000	0.002	0.002
Invertebrate Unidentified	902	0.000	0.001	0.001
Snailfish Unidentified		0.000	0.001	0.001
Thornyhead Rockfish Unidentified		0.344	0.082	0.426
Deepsea Smelt Unidentified		0.000	0.001	0.001
Eulachon		0.004	0.009	0.012
Northern Anchovy		0.000	0.001	0.001
Smelt Unidentified		0.000	0.000	0.000
Argentine Unidentified		0.000	0.000	0.000
Cutlassfish Unidentified		0.000	0.005	0.005
Dragonfish Unidentified		0.000	0.002	0.003
Grenadier Unidentified		0.000	0.220	0.220
Isopod		0.000	0.000	0.000
Loosejaws Unidentified		0.000	0.001	0.001
Manefish		0.000	0.001	0.001
Rainbow Smelt		0.000	0.006	0.006
Rough Pomfret		0.000	0.003	0.003
Sea Devil Unidentified		0.001	0.000	0.001
Shrimp Unidentified		0.000	0.002	0.002
Skate Egg Case Unidentified		0.000	0.001	0.001
Viperfish Unidentified		0.000	0.000	0.000
Dreamer Unidentified		0.000	0.000	0.000

Table 2a (part 1)

Species Name	Arctic Fury		Bay Islander		Lisa Melinda	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	1,682.718	2.469	991.551	1.960	4,214.518	1.852
Sablefish	0.000	0.002		0.000	0.084	0.000
Pollock		0.000		0.000		0.000
Lingcod	0.000	0.060	0.013	0.000	0.116	0.003
FLAT FISH						
Rex Sole		0.000		0.000	0.076	0.004
Dover Sole		0.000		0.000	0.003	0.000
Slender Sole		0.000		0.000		0.000
Arrowtooth Flounder	0.000	0.020	0.114	0.034	0.180	0.082
English Sole		0.000		0.000		0.000
Flatfish Unidentified		0.000		0.000		0.000
Pacific Sanddab		0.000		0.000	0.000	0.002
Flathead Sole		0.000		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.000	0.002	0.255	0.000	0.042	0.012
Widow Rockfish	0.000	0.399	0.088	0.196	2.447	0.643
Dark Blotched Rockfish	0.000	0.809	0.058	0.058	0.140	0.025
Canary Rockfish		0.000	0.072	0.000	0.012	0.067
Greenstriped Rockfish		0.000		0.000		0.000
Harlequin Rockfish		0.000		0.000		0.000
Stripetail Rockfish		0.000		0.000		0.000
Bocaccio		0.000	0.027	0.000	0.012	0.000
Sharpchin Rockfish		0.000		0.000		0.000
Roughey Rockfish	0.000	0.004	0.402	0.000	1.098	0.112
Silvergray Rockfish		0.000	0.009	0.000	0.000	0.006
Splitnose Rockfish	0.000	0.082		0.000	0.700	0.133
Shortbelly Rockfish	0.000	0.002		0.000	0.008	0.003
Blackgill Rockfish		0.000		0.000		0.000
Yellowtail Rockfish	0.000	0.026	0.459	59.842	0.046	1.500
Redstripe Rockfish		0.000		0.000	0.000	0.002
Chilipepper Rockfish		0.000		0.000		0.000
Shorthead Rockfish		0.000		0.000		0.000
Aurora Rockfish		0.000	0.000	0.000		0.000
Bank Rockfish		0.000		0.000		0.000
Shortspine Thornyhead	0.000	0.001		0.000	0.942	0.008
REMAINING GROUND FISH SPECIES						
Squid Unidentified	0.000	0.145	0.149	0.126	3.121	0.208
Octopus Unidentified		0.000		0.000		0.000
Pacific Sleeper Shark		0.000		0.000		0.000
Southern Shark	0.000	0.064		0.000	0.000	0.099
Spiny Dogfish Shark	0.000	0.052	0.000	0.214	0.869	0.086
Salmon Shark	0.000	1.103		0.000	0.000	1.278
Brown Cat Shark		0.000		0.000	0.197	0.027
Blue Shark	0.000	0.030		0.000	0.000	0.024
Lamprey Unidentified		0.000	0.000	0.000	0.002	0.000
Pacific Electric Ray		0.000		0.000		0.000
Big Skate		0.000		0.000	0.000	0.036
Longnose Skate		0.000		0.000	0.000	0.005

1

Table 2a (part 2)

Species Name	Arctic Fury		Bay Islander		Lisa Melinda	
	Retained #s	Discard #s	Retained #s	Discard #s	Retained #s	Discard #s
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	16	0	4	0	58
Coho Salmon	0	0	0	0	0	0
Pink Salmon	0	0	0	0	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.011	0.000	0.000	0.000	0.051
Dungeness Crab		0.000		0.000	0.000	0.038
NON_GROUNDFISH SPECIES						
Jellyfish	0.000	0.029	0.000	0.001	0.028	0.195
Ascidian - Sea Squirt		0.000		0.000		0.000
Pacific Mackerel		0.000		0.000	0.001	0.001
Jack Mackerel	0.000	0.004		0.000	0.514	0.065
Pacific Saury		0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.000
Ragfish		0.000		0.000	0.000	0.000
Eelpout Unidentified		0.000		0.000		0.000
Humboldt Squid		0.000	0.034	0.000		0.000
Surf Smelt		0.000		0.000	0.009	0.000
Ribbonfish Unidentified		0.000		0.000		0.000
Pacific Lamprey	0.000	0.000	0.000	0.000	0.000	0.013
American Shad		0.000		0.000	0.013	0.040
King-of-the-Salmon		0.000		0.000		0.000
Pacific Sardine		0.000		0.000	0.000	0.000
Thresher Shark		0.000		0.000		0.000
Lanternfish Unidentified		0.000		0.000	0.000	0.002
Sandpaper Skate		0.000		0.000		0.000
Duckbill Barracudina		0.000		0.000		0.000
Pacific Pomfret		0.000		0.000		0.000
Medusafish		0.000		0.000		0.000
Tubeshoulder Unidentified		0.000		0.000	0.000	0.000
Ocean Sunfish		0.000		0.000	0.014	0.000
Fish Waste		0.000		0.000	0.001	0.000
Miscellaneous Unidentified		0.000		0.000	0.000	0.001
Fish Unidentified		0.000		0.000	0.000	0.000
Invertebrate Unidentified		0.000		0.000	0.000	0.001
Snailfish Unidentified		0.000		0.000		0.000
Thornyhead Rockfish Unidentified		0.000		0.000		0.000
Deepsea Smelt Unidentified		0.000		0.000		0.000
Eulachon		0.000		0.000	0.002	0.004
Northern Anchovy		0.000		0.000	0.000	0.001
Smelt Unidentified		0.000		0.000		0.000
Argentine Unidentified		0.000		0.000		0.000
Cutlassfish Unidentified		0.000		0.000		0.000
Dragonfish Unidentified		0.000		0.000		0.000
Grenadier Unidentified		0.000		0.000		0.000
Isopod		0.000		0.000	0.000	0.000
Loosejaws Unidentified		0.000		0.000		0.000
Manefish		0.000		0.000		0.000
Rainbow Smelt		0.000		0.000		0.000
Rough Pomfret		0.000		0.000		0.000
Sea Devil Unidentified		0.000		0.000		0.000
Shrimp Unidentified		0.000		0.000	0.000	0.001
Skate Egg Case Unidentified		0.000		0.000		0.000
Viperfish Unidentified		0.000		0.000		0.000
Dreamer Unidentified		0.000		0.000		0.000

Table 2b (part 1)

Species Name	Marathon		Mark I		Miss Berdie	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	2,164.796	13.013	2,563.786	15.217	4,191.968	11.590
Sablefish	0.100	0.000	0.000	0.001	0.000	0.012
Pollock		0.000		0.000		0.000
Lingcod	0.012	0.000	0.000	0.103	0.000	0.178
FLAT FISH						
Rex Sole	0.035	0.066		0.000	0.000	0.018
Dover Sole	0.000	0.029		0.000	0.000	0.006
Slender Sole	0.000	0.000		0.000		0.000
Arrowtooth Flounder	0.171	0.051	0.000	0.042	0.000	0.258
English Sole	0.000	0.001		0.000		0.000
Flatfish Unidentified		0.000		0.000		0.000
Pacific Sanddab		0.000		0.000		0.000
Flathead Sole	0.000	0.004		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.115	0.128	0.000	0.011	0.000	0.155
Widow Rockfish	1.783	0.065	0.000	1.004	0.000	1.160
Dark Blotched Rockfish	0.182	0.235	0.000	0.630	0.000	0.477
Canary Rockfish	0.053	0.003	0.000	0.035	0.000	0.049
Greenstriped Rockfish		0.000		0.000		0.000
Harlequin Rockfish		0.000		0.000		0.000
Stripetail Rockfish		0.000		0.000		0.000
Bocaccio	0.014	0.000	0.000	0.016	0.000	0.049
Sharpchin Rockfish		0.000	0.000	0.001	0.000	0.005
Roughey Rockfish	0.500	0.210	0.000	0.044	0.207	0.203
Silvergray Rockfish		0.000		0.000	0.000	0.014
Splitnose Rockfish	0.080	0.003	0.000	0.537	0.000	0.019
Shortbelly Rockfish	0.000	0.000	0.000	0.005	0.000	0.003
Blackgill Rockfish	0.000	0.004		0.000		0.000
Yellowtail Rockfish	1.107	23.255	0.000	19.913	0.000	41.282
Redstripe Rockfish	0.001	0.000		0.000		0.000
Chilipepper Rockfish		0.000		0.000		0.000
Shorthead Rockfish		0.000		0.000		0.000
Aurora Rockfish	0.000	0.001		0.000		0.000
Bank Rockfish		0.000		0.000		0.000
Shortspine Thornyhead	0.191	0.190		0.000	0.000	0.288
REMAINING GROUND FISH SPECIES						
Squid Unidentified	0.560	0.526	0.000	0.302	0.163	0.847
Octopus Unidentified	0.016	0.000		0.000		0.000
Pacific Sleeper Shark	0.000	0.022		0.000		0.000
Southern Shark		0.000	0.000	0.022	0.000	0.047
Spiny Dogfish Shark	0.000	0.905	0.000	0.076	0.000	1.544
Salmon Shark		0.000	0.000	0.835	0.000	1.123
Brown Cat Shark	0.000	0.350	0.000	0.004	0.000	0.405
Blue Shark		0.000		0.000		0.000
Lamprey Unidentified	0.000	0.000		0.000	0.000	0.001
Pacific Electric Ray		0.000		0.000		0.000
Big Skate		0.000		0.000	0.000	0.025
Longnose Skate	0.000	0.037	0.000	0.017		0.000

Table 2b (part 2)

Species Name	Marathon		Mark I		Miss Berdie	
	Retained #s	Discard #s	Retained #s	Discard #s	Retained #s	Discard #s
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	69	0	15	0	26
Coho Salmon	0	0	0	2	0	0
Pink Salmon	0	1	0	2	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.008	0.000	0.000	0.000	0.101
Dungeness Crab		0.000		0.000		0.000
NON_GROUNDFISH SPECIES						
Jellyfish	0.000	0.040	0.000	0.024	0.000	0.033
Ascidian - Sea Squirt		0.000		0.000		0.000
Pacific Mackerel		0.000		0.000		0.000
Jack Mackerel	0.384	0.988	0.000	0.006	4.533	13.929
Pacific Saury		0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.002
Ragfish	0.000	0.002		0.000	0.000	0.173
Eelpout Unidentified	0.000	0.002		0.000	0.000	0.000
Humboldt Squid	0.000	0.004		0.000		0.000
Surf Smelt		0.000		0.000		0.000
Ribbonfish Unidentified	0.018	0.000		0.000		0.000
Pacific Lamprey	0.000	0.000		0.000	0.000	0.000
American Shad	0.003	0.030	0.000	0.013	0.000	0.006
King-of-the-Salmon		0.000		0.000	0.000	0.028
Pacific Sardine		0.000		0.000		0.000
Thresher Shark		0.000		0.000		0.000
Lanternfish Unidentified	0.000	0.000		0.000	0.000	0.001
Sandpaper Skate		0.000		0.000		0.000
Duckbill Barracudina		0.000		0.000	0.000	0.006
Pacific Pomfret		0.000		0.000		0.000
Medusafish	0.000	0.001		0.000	0.000	0.007
Tubeshoulder Unidentified		0.000		0.000	0.000	0.000
Ocean Sunfish	0.000	0.006		0.000		0.000
Fish Waste	0.000	0.001		0.000	0.000	0.002
Miscellaneous Unidentified	0.000	0.000		0.000		0.000
Fish Unidentified		0.000		0.000		0.000
Invertebrate Unidentified		0.000		0.000		0.000
Snailfish Unidentified		0.000		0.000		0.000
Thornyhead Rockfish Unidentified	0.344	0.000		0.000		0.000
Deepsea Smelt Unidentified		0.000		0.000	0.000	0.000
Eulachon	0.001	0.001		0.000	0.000	0.000
Northern Anchovy		0.000		0.000		0.000
Smelt Unidentified		0.000		0.000	0.000	0.000
Argentine Unidentified		0.000		0.000	0.000	0.000
Cutlassfish Unidentified		0.000		0.000	0.000	0.004
Dragonfish Unidentified	0.000	0.001		0.000	0.000	0.001
Grenadier Unidentified	0.000	0.014		0.000	0.000	0.160
Isopod		0.000		0.000		0.000
Loosejaws Unidentified		0.000		0.000	0.000	0.000
Manefish		0.000		0.000		0.000
Rainbow Smelt		0.000		0.000		0.000
Rough Pomfret		0.000		0.000		0.000
Sea Devil Unidentified		0.000		0.000		0.000
Shrimp Unidentified		0.000		0.000		0.000
Skate Egg Case Unidentified	0.000	0.000		0.000	0.000	0.000
Viperfish Unidentified		0.000		0.000	0.000	0.000
Dreamer Unidentified		0.000		0.000		0.000

Table 2c (part 1)

Species Name	Miss Sarah		Muir Milach		Pacific Challenger	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	1,888.921	22.863	4,826.314	13.943	2,286.038	0.000
Sablefish	0.016	0.000	0.019	0.004	0.042	0.000
Pollock		0.000		0.000		0.000
Lingcod	0.158	0.021	0.080	0.025		0.000
FLAT FISH						
Rex Sole	0.000	0.007	0.007	0.003	0.002	0.011
Dover Sole		0.000	0.000	0.001		0.000
Slender Sole	0.000	0.000	0.000	0.000		0.000
Arrowtooth Flounder	0.065	0.059	0.025	0.094	0.007	0.050
English Sole	0.000	0.002		0.000		0.000
Flatfish Unidentified		0.000		0.000		0.000
Pacific Sanddab	0.000	0.003		0.000		0.000
Flathead Sole		0.000		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.017	0.010		0.000		0.000
Widow Rockfish	0.042	0.207	0.440	2.671	0.099	0.012
Dark Blotched Rockfish	0.139	0.214	0.000	0.024	0.000	0.003
Canary Rockfish	0.000	0.008	0.026	0.004		0.000
Greenstriped Rockfish		0.000	0.000	0.001		0.000
Harlequin Rockfish		0.000		0.000		0.000
Stripetail Rockfish		0.000		0.000		0.000
Bocaccio		0.000		0.000		0.000
Sharpchin Rockfish		0.000	0.000	0.002		0.000
Rougeye Rockfish	0.000	0.136	0.403	0.065	0.188	0.670
Silvergray Rockfish		0.000		0.000		0.000
Splitnose Rockfish	0.009	0.614	0.013	0.010	0.054	0.000
Shortbelly Rockfish	0.000	0.000	0.005	0.637		0.000
Blackgill Rockfish		0.000		0.000		0.000
Yellowtail Rockfish	0.000	0.093	0.205	0.053		0.000
Redstripe Rockfish	0.000	0.001	0.001	0.002		0.000
Chilipepper Rockfish		0.000		0.000		0.000
Shortraker Rockfish		0.000		0.000	0.010	0.000
Aurora Rockfish		0.000		0.000		0.000
Bank Rockfish		0.000		0.000		0.000
Shortspine Thornyhead	0.000	0.013	0.021	0.029	0.128	0.067
REMAINING GROUND FISH SPECIES						
Squid Unidentified	0.314	0.378	5.101	0.841	1.104	1.241
Octopus Unidentified		0.000	0.000	0.004		0.000
Pacific Sleeper Shark	0.000	0.003	0.000	0.001		0.000
Southern Shark		0.000		0.000		0.000
Spiny Dogfish Shark	0.000	0.549	0.127	2.749	0.000	1.094
Salmon Shark		0.000		0.000		0.000
Brown Cat Shark	0.000	1.346	0.030	1.277	0.000	0.202
Blue Shark		0.000		0.000		0.000
Lamprey Unidentified	0.000	0.001	0.000	0.001	0.000	0.000
Pacific Electric Ray		0.000		0.000		0.000
Big Skate		0.000		0.000		0.000
Longnose Skate	0.000	0.048		0.000		0.000

1

Table 2c (part 2)

Species Name	Miss Sarah		Muir Milach		Pacific Challenger	
	Retained #s	Discard #s	Retained #s	Discard #s	Retained #s	Discard #s
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	136	0	97	0	49
Coho Salmon	0	0	0	0	0	0
Pink Salmon	0	0	0	0	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.016	0.000	0.061	0.000	0.016
Dungeness Crab		0.000		0.000		0.000
NON_GROUNDFISH SPECIES						
Jellyfish	0.000	0.072	0.000	0.259	0.000	0.060
Ascidian - Sea Squirt	0.000	0.000	0.000	0.003		0.000
Pacific Mackerel	0.000	0.001	0.000	0.000		0.000
Jack Mackerel	0.005	0.003	0.501	1.175	0.135	0.000
Pacific Saury		0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.000
Ragfish		0.000	0.000	0.148	0.000	0.146
Eelpout Unidentified		0.000	0.000	0.002		0.000
Humboldt Squid		0.000		0.000		0.000
Surf Smelt		0.000		0.000		0.000
Ribbonfish Unidentified		0.000		0.000		0.000
Pacific Lamprey	0.000	0.003	0.001	0.008		0.000
American Shad	0.333	0.089	0.003	0.001	0.001	0.004
King-of-the-Salmon	0.000	0.006	0.000	0.075	0.000	0.004
Pacific Sardine		0.000	0.000	0.001		0.000
Thresher Shark	0.000	0.121		0.000		0.000
Lanternfish Unidentified	0.000	0.001	0.000	0.002	0.000	0.000
Sandpaper Skate		0.000		0.000		0.000
Duckbill Barracudina		0.000	0.000	0.006	0.000	0.000
Pacific Pomfret		0.000		0.000		0.000
Medusafish		0.000	0.000	0.009		0.000
Tubeshoulder Unidentified		0.000	0.000	0.001	0.000	0.000
Ocean Sunfish	0.000	0.015	0.000	0.027		0.000
Fish Waste	0.000	0.001	0.001	0.000	0.000	0.000
Miscellaneous Unidentified	0.000	0.000	0.000	0.001	0.000	0.002
Fish Unidentified	0.000	0.000	0.000	0.000		0.000
Invertebrate Unidentified		0.000		0.000		0.000
Snailfish Unidentified	0.000	0.001		0.000		0.000
Thornyhead Rockfish Unidentified		0.000		0.000		0.000
Deepsea Smelt Unidentified		0.000	0.000	0.000		0.000
Eulachon	0.000	0.000	0.000	0.002	0.001	0.000
Northern Anchovy		0.000		0.000		0.000
Smelt Unidentified		0.000		0.000		0.000
Argentine Unidentified		0.000		0.000		0.000
Cutlassfish Unidentified		0.000	0.000	0.001		0.000
Dragonfish Unidentified	0.000	0.000	0.000	0.001	0.000	0.000
Grenadier Unidentified		0.000	0.000	0.030		0.000
Isopod	0.000	0.000	0.000	0.000		0.000
Loosejaws Unidentified		0.000	0.000	0.000		0.000
Manefish		0.000		0.000	0.000	0.000
Rainbow Smelt		0.000	0.000	0.001		0.000
Rough Pomfret		0.000		0.000		0.000
Sea Devil Unidentified		0.000		0.000		0.000
Shrimp Unidentified	0.000	0.000	0.000	0.000	0.000	0.000
Skate Egg Case Unidentified	0.000	0.000	0.000	0.000		0.000
Viperfish Unidentified		0.000	0.000	0.000	0.000	0.000
Dreamer Unidentified		0.000	0.000	0.000		0.000

Table 2d (part 1)

Species Name	Pacific Prince		Pegasus		Perseverance	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	4,564.033	0.000	6,108.154	9.697	1,543.457	0.000
Sablefish	0.373	0.000	0.552	0.773	0.039	0.023
Pollock		0.000	0.000	0.002		0.000
Lingcod	0.003	0.000	0.000	0.163	0.046	0.000
FLAT FISH						
Rex Sole	0.407	0.000	0.004	0.189	0.003	0.071
Dover Sole	0.003	0.000	0.000	0.005	0.001	0.011
Slender Sole		0.000	0.000	0.000	0.000	0.000
Arrowtooth Flounder	0.700	0.000	0.000	0.550	0.120	0.116
English Sole		0.000		0.000	0.001	0.000
Flatfish Unidentified		0.000		0.000		0.000
Pacific Sanddab		0.000		0.000		0.000
Flathead Sole		0.000		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.027	0.000	0.001	0.121	0.000	0.043
Widow Rockfish	0.342	0.000	0.061	0.636	0.056	0.263
Dark Blotched Rockfish	0.577	0.000	0.005	0.022	0.186	0.227
Canary Rockfish		0.000	0.003	0.076	0.000	0.011
Greenstriped Rockfish	0.001	0.000		0.000		0.000
Harlequin Rockfish		0.000		0.000		0.000
Stripetail Rockfish	0.002	0.000	0.000	0.001		0.000
Bocaccio		0.000	0.000	0.016		0.000
Sharpchin Rockfish		0.000		0.000	0.000	0.012
Rougeye Rockfish	1.589	0.000	0.000	0.041	0.083	0.026
Silvergray Rockfish		0.000	0.000	0.001		0.000
Splitnose Rockfish	0.380	0.000	0.000	0.259	0.000	0.191
Shortbelly Rockfish	0.001	0.000	0.000	0.000	0.028	0.001
Blackgill Rockfish		0.000		0.000		0.000
Yellowtail Rockfish		0.000	0.007	29.218	0.000	0.102
Redstripe Rockfish		0.000	0.002	0.000		0.000
Chilipepper Rockfish		0.000		0.000	0.000	0.003
Shorthead Rockfish		0.000		0.000		0.000
Aurora Rockfish		0.000		0.000		0.000
Bank Rockfish		0.000		0.000		0.000
Shortspine Thornyhead	2.334	0.000	0.057	1.003	0.000	0.208
REMAINING GROUND FISH SPECIES						
Squid Unidentified	12.017	0.058	0.196	9.912	0.071	0.495
Octopus Unidentified		0.000	0.000	0.005	0.000	0.001
Pacific Sleeper Shark	0.003	0.000		0.000	0.000	0.006
Southern Shark		0.000		0.000		0.000
Spiny Dogfish Shark	0.823	0.000	0.000	6.782	0.000	2.258
Salmon Shark		0.000		0.000		0.000
Brown Cat Shark	0.414	0.000	0.000	0.239	0.000	0.172
Blue Shark		0.000	0.000	0.019		0.000
Lamprey Unidentified	0.003	0.000	0.000	0.002	0.000	0.003
Pacific Electric Ray		0.000	0.000	0.005		0.000
Big Skate		0.000		0.000		0.000
Longnose Skate	0.012	0.000		0.000		0.000

1

Table 2d (part 2)

Species Name	Pacific Prince		Pegasus		Perseverance	
	Retained #s	Discard #s	Retained mt	Discard mt	Retained mt	Discard mt
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	18	0	82	0	335
Coho Salmon	0	0	0	0	0	0
Pink Salmon	0	0	0	0	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.012	0.000	0.051	0.000	0.000
Dungeness Crab		0.000		0.000		0.000
NON_GROUNDFISH SPECIES						
Jellyfish	0.026	0.269	0.000	0.056	0.000	0.004
Ascidian - Sea Squirt		0.000		0.000		0.000
Pacific Mackerel		0.000		0.000		0.000
Jack Mackerel	3.181	0.000	0.000	22.612		0.000
Pacific Saury		0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.000
Ragfish	0.001	0.000		0.000		0.000
Eelpout Unidentified		0.000		0.000		0.000
Humboldt Squid		0.000		0.000		0.000
Surf Smelt	0.002	0.000		0.000		0.000
Ribbonfish Unidentified		0.000		0.000		0.000
Pacific Lamprey	0.000	0.000	0.000	0.000		0.000
American Shad	0.039	0.000	0.000	0.019	0.060	0.031
King-of-the-Salmon	0.012	0.000	0.000	0.053	0.000	0.016
Pacific Sardine		0.000	0.000	0.177		0.000
Thresher Shark		0.000		0.000		0.000
Lanternfish Unidentified	0.002	0.000	0.000	0.000	0.000	0.000
Sandpaper Skate		0.000	0.000	0.001		0.000
Duckbill Barracudina	0.004	0.000		0.000	0.000	0.001
Pacific Pomfret		0.000		0.000		0.000
Medusafish		0.000	0.000	0.003	0.000	0.004
Tubeshoulder Unidentified		0.000		0.000	0.000	0.000
Ocean Sunfish	0.000	0.003	0.000	0.012		0.000
Fish Waste	0.001	0.000	0.000	0.002	0.000	0.001
Miscellaneous Unidentified	0.000	0.001		0.000	0.000	0.000
Fish Unidentified	0.000	0.000	0.000	0.002		0.000
Invertebrate Unidentified		0.000		0.000		0.000
Snailfish Unidentified		0.000	0.000	0.001		0.000
Thornyhead Rockfish Unidentified		0.000		0.000		0.000
Deepsea Smelt Unidentified		0.000	0.000	0.000		0.000
Eulachon		0.000	0.000	0.001		0.000
Northern Anchovy		0.000		0.000		0.000
Smelt Unidentified		0.000		0.000		0.000
Argentine Unidentified		0.000		0.000		0.000
Cutlassfish Unidentified		0.000		0.000		0.000
Dragonfish Unidentified		0.000		0.000		0.000
Grenadier Unidentified		0.000		0.000		0.000
Isopod		0.000		0.000	0.000	0.000
Loosejaws Unidentified		0.000		0.000		0.000
Manefish		0.000		0.000		0.000
Rainbow Smelt		0.000		0.000	0.000	0.000
Rough Pomfret		0.000		0.000		0.000
Sea Devil Unidentified		0.000		0.000		0.000
Shrimp Unidentified	0.000	0.000	0.000	0.000	0.000	0.000
Skate Egg Case Unidentified		0.000		0.000	0.000	0.000
Viperfish Unidentified		0.000		0.000		0.000
Dreamer Unidentified		0.000		0.000		0.000

Table 2e (part 1)

Species Name	Raven		Sea Storm		Seadawn	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	4,433.620	31.579	3,208.054	0.000	238.067	0.000
Sablefish	0.056	0.262	0.034	0.000		0.000
Pollock		0.000		0.000		0.000
Lingcod	0.000	0.029	0.016	0.000		0.000
FLAT FISH						
Rex Sole	0.000	0.009	0.000	0.015		0.000
Dover Sole		0.000	0.000	0.006		0.000
Slender Sole		0.000	0.000	0.000		0.000
Arrowtooth Flounder	0.000	0.287	0.000	0.052	0.412	0.000
English Sole		0.000	0.000	0.001		0.000
Flatfish Unidentified		0.000		0.000		0.000
Pacific Sanddab		0.000		0.000		0.000
Flathead Sole		0.000		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.003	0.157	0.006	0.020		0.000
Widow Rockfish	0.040	0.636	0.000	0.515	0.000	0.059
Dark Blotched Rockfish	0.009	0.069	0.000	0.080		0.000
Canary Rockfish	0.000	0.050	0.003	0.000		0.000
Greenstriped Rockfish		0.000		0.000		0.000
Harlequin Rockfish		0.000		0.000		0.000
Stripetail Rockfish		0.000		0.000		0.000
Bocaccio	0.000	0.035		0.000		0.000
Sharpchin Rockfish		0.000	0.000	0.001		0.000
Roughey Rockfish	0.218	0.000	0.045	0.013		0.000
Silvergray Rockfish		0.000		0.000		0.000
Splitnose Rockfish	0.017	0.011	0.000	0.273		0.000
Shortbelly Rockfish		0.000	0.000	0.003		0.000
Blackgill Rockfish		0.000		0.000		0.000
Yellowtail Rockfish	0.003	12.628		0.000	0.000	1.030
Redstripe Rockfish	0.000	0.000	0.000	0.001		0.000
Chilipepper Rockfish		0.000		0.000		0.000
Shortraker Rockfish		0.000		0.000		0.000
Aurora Rockfish		0.000		0.000		0.000
Bank Rockfish	0.004	0.000		0.000		0.000
Shortspine Thornyhead	0.017	0.035	0.000	0.023		0.000
REMAINING GROUND FISH SPECIES						
Squid Unidentified	0.457	6.255	0.856	1.100	0.000	0.006
Octopus Unidentified		0.000	0.000	0.005		0.000
Pacific Sleeper Shark		0.000	0.000	0.001		0.000
Southern Shark		0.000		0.000		0.000
Spiny Dogfish Shark	0.000	0.599	0.000	4.435	0.000	0.021
Salmon Shark		0.000		0.000		0.000
Brown Cat Shark	0.000	0.012	0.000	1.911		0.000
Blue Shark		0.000		0.000		0.000
Lamprey Unidentified	0.000	0.001	0.000	0.003		0.000
Pacific Electric Ray		0.000		0.000		0.000
Big Skate		0.000		0.000		0.000
Longnose Skate	0.023	0.000	0.000	0.015		0.000

1

Table 2e (part 2)

Species Name	Raven		Sea Storm		Seadawn	
	Retained #s	Discard #s	Retained #s	Discard #s	Retained #s	Discard #s
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	83	0	341	0	2
Coho Salmon	0	4	0	0	0	0
Pink Salmon	0	0	0	0	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.057	0.000	0.000	0.000	0.000
Dungeness Crab		0.000		0.000		0.000
NON_GROUNDFISH SPECIES						
Jellyfish	0.000	0.082	0.000	0.013		0.000
Ascidian - Sea Squirt		0.000		0.000		0.000
Pacific Mackerel	0.000	0.001	0.000	0.001		0.000
Jack Mackerel	0.245	20.649	0.014	0.005		0.000
Pacific Saury	0.000	0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.000
Ragfish		0.000	0.000	0.060		0.000
Eelpout Unidentified		0.000	0.000	0.002		0.000
Humboldt Squid		0.000	0.000	0.005		0.000
Surf Smelt		0.000		0.000		0.000
Ribbonfish Unidentified		0.000		0.000		0.000
Pacific Lamprey		0.000		0.000	0.000	0.000
American Shad	0.000	0.031	0.158	0.015		0.000
King-of-the-Salmon		0.000	0.000	0.111		0.000
Pacific Sardine	0.000	0.000	0.000	0.001		0.000
Thresher Shark		0.000	0.000	0.121		0.000
Lanternfish Unidentified	0.000	0.000	0.000	0.003		0.000
Sandpaper Skate		0.000		0.000		0.000
Duckbill Barracudina		0.000	0.000	0.004		0.000
Pacific Pomfret		0.000		0.000		0.000
Medusafish		0.000	0.000	0.016		0.000
Tubeshoulder Unidentified		0.000	0.000	0.000		0.000
Ocean Sunfish	0.011	0.011	0.000	0.012		0.000
Fish Waste		0.000	0.000	0.002		0.000
Miscellaneous Unidentified	0.000	0.000		0.000		0.000
Fish Unidentified		0.000		0.000		0.000
Invertebrate Unidentified		0.000		0.000		0.000
Snailfish Unidentified		0.000		0.000		0.000
Thornyhead Rockfish Unidentified		0.000		0.000		0.000
Deepsea Smelt Unidentified		0.000	0.000	0.000		0.000
Eulachon	0.000	0.000		0.000		0.000
Northern Anchovy		0.000		0.000		0.000
Smelt Unidentified		0.000		0.000		0.000
Argentine Unidentified		0.000	0.000	0.000		0.000
Cutlassfish Unidentified		0.000	0.000	0.001		0.000
Dragonfish Unidentified		0.000	0.000	0.001		0.000
Grenadier Unidentified		0.000	0.000	0.013		0.000
Isopod		0.000		0.000		0.000
Loosejaws Unidentified		0.000	0.000	0.000		0.000
Manefish		0.000	0.000	0.000		0.000
Rainbow Smelt		0.000	0.000	0.001		0.000
Rough Pomfret		0.000		0.000		0.000
Sea Devil Unidentified	0.001	0.000		0.000		0.000
Shrimp Unidentified	0.000	0.000	0.000	0.000		0.000
Skate Egg Case Unidentified		0.000	0.000	0.000		0.000
Viperfish Unidentified		0.000		0.000		0.000
Dreamer Unidentified		0.000		0.000		0.000

Table 2f (part 1)

Species Name	Seeker		Traveler		Western Dawn	
	Retained mt	Discard mt	Retained mt	Discard mt	Retained mt	Discard mt
ROUND FISH						
Whiting	1,914.573	0.000	4,258.850	34.017	2,327.296	15.104
Sablefish	0.040	0.020	0.144	0.400	0.006	0.000
Pollock		0.000		0.000		0.000
Lingcod	0.012	0.022	0.013	0.085	0.000	0.199
FLAT FISH						
Rex Sole	0.001	0.140	0.000	0.025	0.000	0.000
Dover Sole	0.000	0.009	0.000	0.001		0.000
Slender Sole	0.001	0.001		0.000		0.000
Arrowtooth Flounder	0.022	0.111	0.000	0.050	0.000	0.029
English Sole		0.000		0.000		0.000
Flatfish Unidentified		0.000		0.000	0.000	0.000
Pacific Sanddab		0.000		0.000		0.000
Flathead Sole		0.000		0.000		0.000
ROCK FISH						
Pacific Ocean Perch	0.000	0.009		0.000		0.000
Widow Rockfish	0.000	0.616	0.041	0.522	0.024	0.464
Dark Blotched Rockfish	0.000	0.039	0.000	0.006	0.002	0.012
Canary Rockfish	0.000	0.002		0.000		0.000
Greenstriped Rockfish		0.000		0.000		0.000
Harlequin Rockfish		0.000	0.000	0.001		0.000
Stripetail Rockfish		0.000		0.000		0.000
Bocaccio		0.000		0.000		0.000
Sharpchin Rockfish	0.000	0.005		0.000		0.000
Rougheyeye Rockfish	0.303	0.035	0.000	0.009		0.000
Silvergray Rockfish		0.000		0.000		0.000
Splitnose Rockfish	0.000	0.511	0.008	0.062	0.000	0.000
Shortbelly Rockfish	0.000	0.027	0.000	0.001		0.000
Blackgill Rockfish		0.000		0.000		0.000
Yellowtail Rockfish		0.000	0.004	0.100	0.012	0.000
Redstripe Rockfish	0.000	0.003	0.001	0.000	0.003	0.001
Chilipepper Rockfish		0.000		0.000		0.000
Shorthead Rockfish		0.000		0.000		0.000
Aurora Rockfish		0.000		0.000		0.000
Bank Rockfish		0.000		0.000		0.000
Shortspine Thornyhead	0.000	0.216	0.000	0.154	0.044	0.052
REMAINING GROUND FISH SPECIES						
Squid Unidentified	0.186	0.809	0.021	8.439	0.051	1.591
Octopus Unidentified		0.000		0.000		0.000
Pacific Sleeper Shark		0.000		0.000		0.000
Southern Shark		0.000		0.000		0.000
Spiny Dogfish Shark	0.000	3.229	0.000	2.792	0.000	3.919
Salmon Shark		0.000		0.000		0.000
Brown Cat Shark	0.000	0.763	0.000	0.094	0.000	0.021
Blue Shark		0.000		0.000		0.000
Lamprey Unidentified	0.001	0.001	0.000	0.002	0.000	0.002
Pacific Electric Ray		0.000		0.000		0.000
Big Skate		0.000	0.000	0.040		0.000
Longnose Skate	0.000	0.045		0.000		0.000

Table 2f (part 2)

Species Name	Seeker		Traveler		Western Dawn	
	Retained #s	Discard #s	Retained #s	Discard #s	Retained #s	Discard #s
PROHIBITED SPECIES Salmon						
Chinook Salmon	0	536	0	45	0	70
Coho Salmon	0	0	0	0	0	0
Pink Salmon	0	0	0	0	0	0
PROHIBITED SPECIES Other						
Pacific Halibut	0.000	0.000	0.000	0.012	0.000	0.000
Dungeness Crab		0.000		0.000		0.000
NON_GROUNDFISH SPECIES						
Jellyfish	0.000	0.040	0.000	0.077	0.000	0.030
Ascidian - Sea Squirt	0.000	0.000		0.000		0.000
Pacific Mackerel		0.000	0.000	0.001	0.000	0.001
Jack Mackerel	0.899	3.997	0.000	3.830	0.052	8.024
Pacific Saury		0.000		0.000		0.000
Pacific Herring	0.000	0.000	0.000	0.000	0.000	0.000
Ragfish	0.000	0.071		0.000		0.000
Eelpout Unidentified	0.000	0.000		0.000		0.000
Humboldt Squid		0.000		0.000		0.000
Surf Smelt		0.000		0.000		0.000
Ribbonfish Unidentified		0.000		0.000		0.000
Pacific Lamprey		0.000		0.000		0.000
American Shad	0.142	0.066	0.000	0.037	0.000	0.004
King-of-the-Salmon	0.000	0.015	0.000	0.030	0.000	0.103
Pacific Sardine		0.000	0.000	0.000	0.000	0.000
Thresher Shark	0.000	0.121		0.000		0.000
Lanternfish Unidentified	0.000	0.001	0.000	0.000	0.000	0.000
Sandpaper Skate		0.000		0.000		0.000
Duckbill Barracudina		0.000	0.000	0.001		0.000
Pacific Pomfret		0.000	0.000	0.005		0.000
Medusafish		0.000		0.000	0.000	0.002
Tubeshoulder Unidentified	0.000	0.000		0.000		0.000
Ocean Sunfish		0.000	0.000	0.003		0.000
Fish Waste	0.000	0.001		0.000		0.000
Miscellaneous Unidentified	0.000	0.000	0.000	0.000		0.000
Fish Unidentified		0.000		0.000		0.000
Invertebrate Unidentified		0.000		0.000		0.000
Snailfish Unidentified		0.000		0.000		0.000
Thornyhead Rockfish Unidentified	0.000	0.082		0.000		0.000
Deepsea Smelt Unidentified		0.000		0.000		0.000
Eulachon		0.000	0.000	0.000	0.000	0.000
Northern Anchovy		0.000		0.000		0.000
Smelt Unidentified		0.000		0.000		0.000
Argentine Unidentified		0.000		0.000		0.000
Cutlassfish Unidentified		0.000	0.000	0.000		0.000
Dragonfish Unidentified		0.000		0.000		0.000
Grenadier Unidentified		0.000	0.000	0.003		0.000
Isopod		0.000		0.000		0.000
Loosejaws Unidentified		0.000		0.000		0.000
Manefish	0.000	0.000		0.000		0.000
Rainbow Smelt	0.000	0.004		0.000		0.000
Rough Pomfret		0.000	0.000	0.003		0.000
Sea Devil Unidentified		0.000		0.000		0.000
Shrimp Unidentified	0.000	0.000	0.000	0.000	0.000	0.000
Skate Egg Case Unidentified	0.000	0.000		0.000		0.000
Viperfish Unidentified		0.000		0.000		0.000
Dreamer Unidentified		0.000		0.000		0.000

Attachment 2

Sea State Daily Report _Distributed by E-mail and on the Sea State WMC Website

Harvest Last 14 Days (MT)

Date	Pacific Hake	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
11/12/2013	369	0.00	0.12	0.00	0.00	41
11/11/2013	305	0.00	0.03	0.01	0.00	17
11/10/2013	115	0.00	0.01	0.00	0.00	10
11/9/2013	414	0.00	0.00	0.61	0.05	24
11/8/2013	479	0.00	0.07	0.05	0.00	433
11/7/2013	405	0.00	0.23	0.00	0.00	72
11/6/2013	394	0.00	0.05	0.00	0.00	107
11/5/2013	478	0.00	0.27	0.00	0.00	103
11/4/2013	265	0.00	0.03	0.03	0.00	28
11/3/2013	412	0.00	0.08	0.01	0.00	11
11/2/2013	221	0.00	0.08	0.00	0.00	5
11/1/2013	0	0.00	0.00	0.00	0.00	0
10/31/2013	0	0.00	0.00	0.00	0.00	0
10/30/2013	0	0.00	0.00	0.00	0.00	0

Allocation and Harvest Totals (MT)

	Pacific Hake	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
2013 Allocation for Motherships	56,170	5.20	120.00	6.10	7.20	1,997
Total Catch YTD	50,757	0.48	15.20	4.20	1.09	1,575
Remaining	5,413	4.72	104.80	1.90	6.11	422
Percentage Taken	90.4 %	9.2 %	12.7 %	68.9 %	15.1 %	78.9 %
Rate YTD	0	0.01	0.30	0.08	0.02	0

Allocation and Harvest By Seasonal Pool (MT)

	Pacific Hake	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
2013 Pool 1						
Allocation	25,758	2.38	55.03	4.04	3.30	916
Catch	24,328	0.45	8.23	3.30	1.01	626
Remaining	1,430	1.93	46.80	0.74	2.29	290
Percentage Taken	94.4 %	19.0 %	14.9 %	81.6 %	30.6 %	68.4 %
2013 Pool 2						
Allocation	12,536	1.16	26.78	0.12	1.61	446
Catch	12,653	0.02	4.00	0.12	0.01	193
Remaining	-117	1.15	22.79	0.00	1.60	253
Percentage Taken	100.9 %	1.3 %	14.9 %	103.2 %	0.6 %	43.3 %
2013 Pool 3						
Allocation	13,036	1.21	27.85	1.42	1.67	463
Catch	12,644	0.01	2.69	0.76	0.06	417
Remaining	393	1.20	25.16	0.65	1.61	46
Percentage Taken	97.0 %	0.5 %	9.7 %	54.0 %	3.8 %	90.0 %
2013 Pool 4						
Allocation	4,840	0.45	10.34	0.53	0.62	172
Catch	1,133	0.00	0.28	0.02	0.00	339
Remaining	3,707	0.45	10.06	0.51	0.62	-167
Percentage Taken	23.4 %	0.5 %	2.7 %	3.2 %	0.6 %	197.0 %

Fleet Rates YTD (KG/MT)

Processing Vessel	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
Arctic Storm	0.002	0.203	0.073	0.006	0.099
Excellence	0.01	0.208	0.092	0.02	0.015
Golden Alaska	0.02	0.359	0.085	0.078	0.019
Katie Ann	0.023	1.139	0.062	0.009	0.011
Ocean Rover	0	0.085	0.08	0.005	0.009

Yellow indicates test i part 2 failure (move may be required if 3 day rate fails also)

Fleet Rates Last 3 Days (KG/MT)

Begin Date	End Date	Processing Vessel	Predominant Pool	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
11/10/2013	11/12/2013	Arctic Storm	4	0.003	0.203	0.014	0.004	0.086

Yellow indicates test i failure, orange indicates test ii failure (either color indicates that a move is required)

Fleet Daily Rates (KG/MT)

Date	Processing Vessel	Predominant Pool	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
11/12/2013	Arctic Storm	4	0.006	0.326	0	0.002	0.111

Yellow indicates test iii failure (move required)

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 (i part 1), and that Fleet's cumulative annual bycatch rate for such species exceeds fifty percent (50%) of the Base Rate for such species (i part 2),

or

(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: No fleet is required to relocate until 50% of the pro-rata share of Chinook for that seasonal pool has been taken. At that point, the Chinook base rate has two stages:

a) 0.04 Chinook/mt is the base rate for fleets that have taken more than their pro-rata share Chinook relative to whiting harvested,

and,

b) 0.06 Chinook/mt is the base rate for fleets that have taken less than their pro-rata share of Chinook relative to whiting harvested.

Vessel Rates YTD (KG/MT)

Harvesting Vessel	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
Arctic Fury	0	0.237	0.48	0.001	0.009
Bay Islander	0.073	0.286	0.116	0.257	0.004
Lisa Melinda	0.019	0.733	0.039	0.013	0.014
Marathon	0.026	0.849	0.191	0.111	0.032
Mark I	0.014	0.389	0.244	0.004	0.006
Miss Berdie	0.012	0.275	0.114	0.037	0.006
Miss Sarah	0.005	0.149	0.216	0.005	0.072
Muir Milach	0.006	0.643	0.005	0	0.02
Pacific Challenger	0	0.048	0.001	0	0.021
Pacific Prince	0	0.075	0.126	0.006	0.004
Pegasus	0.016	0.14	0.005	0.024	0.015
Perseverance	0.009	0.261	0.347	0.028	0.171
Raven	0.011	0.152	0.018	0.036	0.019
Sea Storm	0.001	0.161	0.031	0.006	0.109
Seadawn	0	0.249	0	0	0.003
Seeker	0.001	0.261	0.01	0.002	0.22
Traveler	0	0.131	0.001	0	0.01
Western Dawn	0	0.208	0.006	0	0.03

Vessel Allocation and Catch YTD (MT)

Pool	Harvesting Vessel	Pacific Hake Allocation	Pacific Hake Remaining	Pacific Hake	Canary Rockfish	Widow Rockfish	Dark Blotched Rockfish	Pacific Ocean Perch	Chinook Salmon
1	Arctic Fury	1,685	0	1685	0	0.399	0.809	0.002	16
1	Bay Islander	1,004	10	994	0.073	0.284	0.115	0.255	4
1	Lisa Melinda	1,660	-34	1694	0.067	0.622	0.084	0.039	18
1	Marathon	1,347	-43	1389	0.053	0.33	0.323	0.231	39
1	Mark I	2,579	0	2579	0.035	1.004	0.63	0.011	15
1	Miss Berdie	2,523	-16	2539	0.049	0.983	0.465	0.152	15
1	Miss Sarah	1,933	298	1635	0.008	0.244	0.353	0.009	118
1	Muir Milach	5,696	857	4839	0.03	3.111	0.023	0	97
1	Pegasus	1,834	-19	1853	0.076	0.235	0.012	0.12	18
1	Perseverance	1,601	416	1185	0.011	0.31	0.411	0.033	203
1	Raven	3,196	-17	3213	0.05	0.588	0.069	0.159	80
1	Seadawn	238	0	238	0	0.059	0	0	1
1	Traveler	367	-18	385	0	0.028	0	0	2
1	Western Dawn	96	-5	100	0	0.03	0	0	0
2	Lisa Melinda	2,235	-45	2280	0.012	2.44	0.078	0.006	14
2	Miss Berdie	183	-24	207	0	0.013	0.002	0	4
2	Pegasus	3,168	35	3133	0.003	0.462	0.015	0.002	59
2	Raven	1,077	-27	1103	0	0.089	0.009	0.001	3
2	Traveler	3,645	-42	3687	0	0.534	0.006	0	43
2	Western Dawn	2,228	-15	2243	0	0.458	0.014	0	70
3	Bay Islander	42	42	0	0	0	0	0	0
3	Lisa Melinda	321	79	243	0	0.028	0.004	0.009	26
3	Marathon	829	41	788	0.003	1.518	0.094	0.012	30
3	Miss Berdie	1,481	40	1441	0	0.156	0.012	0.002	7
3	Pacific Challenger	2,286	0	2286	0	0.111	0.003	0	49
3	Pacific Prince	4,725	161	4564	0	0.342	0.577	0.026	18
3	Raven	193	44	149	0	0	0	0	0
3	Sea Storm	2,301	-51	2353	0.003	0.329	0.075	0.014	243
3	Seeker	573	-25	599	0	0.208	0	0	44
3	Traveler	284	63	221	0	0	0	0	0
4	Miss Sarah	450	450	0	0	0	0	0	0
4	Pacific Prince	539	539	0	0	0	0	0	0
4	Perseverance	450	450	0	0	0	0	0	0
4	Sea Storm	1,034	918	117	0	0.07	0	0	27
4	Seeker	2,366	1,350	1016	0.002	0.213	0.017	0.003	312

Exhibit A**WHITING MOTHERSHIP COOPERATIVE**

Members as of March 4, 2014

<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 Fisheries Inc. Kurt Cochran Kimberlee Cochran	GF0320	P.O. Box 290 Siletz, OR 97380
Calamari LLC Mike Okoniewski	GF0272	P.O. Box 5583 Charleston, OR 97420
Cooper, Mark E. Mark Cooper	GF0254	P.O. Box 428 Newport, OR 97365
EX-1 Corporation Michael Retherford	GF0810	880 N.E. Sturdevant Road Toledo, OR 97391
Fury Group, Inc. Michael Stone	GF0051 GF0675	4005 20 th 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 Neahkahnie 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

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
F/V Seeker, Inc. Jim Seavers	GF0109	P.O. Box 1010 Newport, OR 97365
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 Kimberlee 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 rd 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

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
New Life Fisheries, Inc. Kurt Cochran Kimberlee Cochran	GF0321	P.O. Box 290 Siletz, OR 97380
Nicole Fisheries LLC Don Jester David Lethin	GF0052	112 Harrison Avenue Centralia, WA 98531
North Sea, Inc. Bryan North Mike Storey	GF0132	7327 SW Barnes Rd. #102, Portland Oregon, 97225
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 th Street Seattle, WA 98117
Trident Seafoods Corporation c/o Pacific Draggars, Inc. 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	333 First Ave. West, Seattle, WA 98119
Retherford, Michael or Kelley	GF0515	880 N.E. Sturdevant Road Toledo, OR 97391
Sea Clipper LLC (Ocean Gold) Greg Shaughnessy	GF0433	P.O. Box 1104 Westport , WA 98595

<i>Permit Owner and Contact</i>	<i>Permit Number</i>	<i>Mailing Address</i>
Sea Storm Fisheries, Inc. Arctic Storm, Inc. Dale Myer Donna Parker	GF0210	2727 Alaskan Way, Pier 69 Seattle, WA 98121
Traveler Fisheries LLC J. Christopher Garbrick	GF0111	4225 23 rd 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, Todd L.	GF0220	PO Box 6235 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