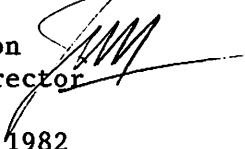


M E M O R A N D U M

TO: Council, SSC, and AP members

FROM: Jim H. Branson  
Executive Director 

DATE: November 30, 1982

SUBJECT: Joint Venture Logbook Program for 1983

*ACTION REQUIRED*

*Review and comment on logbook format and instructions.*

BACKGROUND

A workgroup sponsored by the Pacific Fishery Management Council has been working the past several months on the design of a logbook for the joint venture fisheries off the Pacific coast. Originally the logbook was for the fisheries off Washington, Oregon and California, but has expanded to include Alaska, especially the Shelikof Strait pollock fishery.

Phil Rigby of ADF&G attended a recent logbook meeting in Seattle. As he explains in his report [agenda item C-6(a)], the program is a mail-in approach without the dockside interviews envisioned for the logbook program proposed by ADF&G. ADF&G's program has never really gotten out of the starting blocks for lack of funding. Though it has been submitted for \$167,300 in our programmatic funds request, there appears little chance for funding under the current budget climate.

As an alternative, the mail-in logbook program will cost very little and could be in place before the spring pollock fishery. Required funds will come from the Pacific Coast Fisheries Information Network Program (PacFIN) administered by the Pacific Marine Fisheries Commission. The logbooks would be mailed by the fishermen to PMFC and a PacFIN representative would merge the data with observer and best blend statistics at the Northwest Alaska Fisheries Center.

The sample logbook format and instructions are under item C-6(b).

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

Division of Commercial Fisheries

JAY S. HAMMOND, GOVERNOR

P.O. Box 3-2000  
Juneau, Alaska 99802

(907)465-4220

October 26, 1982

Mr. Jim Branson  
Executive Director  
North Pacific Fisheries Management Council  
P.O. Box 3136 DT  
Anchorage, Alaska 99810

Dear Mr. Branson:

On October 14 at the Northwest and Alaska Fisheries Center, I attended a meeting of the joint venture logbook working group created by the Pacific Fisheries Management Council.

The group consisted of Bob Francis (NWAFC), Kate King (NMFS-Pacific Region), Kit Adams (MRC), Will Daspit (PMFC) and me. Larry Six (PFMC/PMFC) and Jack Robinson (ODF&W) were trapped in Portland by fog.

The task before the group was to design a logbook format for the joint venture fishery which would hopefully be readily used by the U. S. trawl skippers within the JV fishery. Several factors made the use of the proposed coastwide and Alaska logbooks unuseable for the JV fisheries.

A major goal of the proposed JV logbook project is to combine NMFS observer and JV logbook data into a single data base, providing detailed species composition from the observers and effort and more specific catch area information for the catcher vessels. A means of readily identifying and linking individual haul data via a coding process was not possible with present or proposed State logbook systems.

Secondly, additional information peculiar to JV operations, including the proportions of the catch which are food grade and meal, distances cod ends are towed, and times delivered, were not included in other logbook formats.

The working group reviewed the peculiar data needs of the JV fishery and reviewed available logbook formats, including the Trawl Trip Log, the 1981 Daily Fishing Log of the Joint Venture vessel, the Joint Venture Daily Receipt Log, and the Alaska Trawl Logbook.

Other important aspects of a successful logbook program were discussed. The logbook must be easy for the skipper to use and must contain information which is important to him, not just to the manager/researcher. Ideally, a skipper would only maintain one fishing log which fulfills the needs of the

fishermen and the researcher, and hereby encourages the skipper to maintain the logbook, since duplicate recording is not necessary. The format should be at least similar, if not identical, to logbooks of other programs and consistent at least within the North Pacific JV fishery.

Coastwide consistency, of course, requires flexibility and the working group attempted to provide flexibility, consistency and useable format in its design. The general format of the Alaska Trawl Logbook was used and then modified specifically for the needs of the JV fishery. Water temperature and additional economic information were also incorporated. Additional joint venture data included a processor vessel and haul code, delivery time and position and haul and total weight columns. The part of the logbook referring to fish species and size, and meal and food grade proportions were generalized, and collection of these data will be explained in detail in the instructions and example page to be drafted by Kate King and Bob Francis.

In overview, the group worked well together and the format developed is good. This format should not be considered iron-clad but should be modified after fishermen have used it during actual fishing operations. As a staff member of the Alaska Department of Fish and Game, I was very reluctant to actively participate in the proposed special logbook program for JV fisheries, primarily because I feel that it is the State's obligation and responsibility to collect domestic fishery data. However, since neither the North Pacific Council nor the State of Alaska have provided funding for an effective trawl logbook program (JV and/or shore-based), I am recommending that the North Pacific Council support the JV logbook program.

The Joint Venture Catcher Logbook has several advantages. It is useable for trawl vessels in JV fisheries from Mexico through the Bering Sea, and detailed observer data can be combined (after the necessary software is written) with the logbook data on a haul-by-haul basis providing a detailed species-by-species and catch area CPUE data base throughout this fishery.

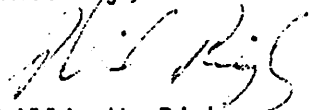
The major disadvantage is that it is a mail-in program. In my opinion judging from the fisheries agencies' experience coastwide, mail-in programs (no skipper interviews) rely on a few highly-motivated skippers; and at best can only be moderately successful.

Confidentiality of the log data is an area of the program which must be decided, probably by the PACFin Data Committee. As generally proposed, the logbooks, after being mailed in to the Pacific Marine Fisheries Commission, would be coded to mask individual vessels and then be entered on the Northwest and Alaska Fisheries Center computer.

The working group is hoping that the proposed JV Catcher Logbook will be available for use during the Shelikof Strait pollock fishery this spring; however, some coordination between the management entities of the Pacific

and North Pacific groundfish fisheries must occur prior to the extension of this logbook program into the Gulf and Bering Sea. The new logbook format and instructions should be available for Council Review prior to the December meeting and should at least be reviewed by the various advisory groups at that meeting.

Sincerely,



Phillip W. Rigby  
Groundfish Coordinator "

cc: Larry Six, Pacific Fisheries Management Council  
~~Clarence~~ Pautzke, North Pacific Council  
Phil Chitwood, NMFS-Alaska Region  
John H. Clark  
Guy Thornburgh

**DRAFT**

## INTRODUCTION

This Joint Venture Trawl Logbook, developed by the Pacific Fishery Management Council, the North Pacific Fishery Management Council, the National Marine Fisheries Service, the Pacific Marine Fisheries Commission, and the States of Washington, Oregon, California, and Alaska, provides a consistent format for recording trawl data from joint venture operations conducted off the coasts of Washington, Oregon, California, and Alaska. Do not use this logbook for any shoreside deliveries. Information in this logbook will not be used for enforcement purposes.

Submission of this information is voluntary in all four states. Send the duplicate page and leave the original copy intact in the logbook for your own use. Include the Vessel Description page with your first submission of the Joint Venture Trawl Log each year, and again if any of the recorded information changes during the year. Please mail your logs by the 15th of each month (for deliveries made the preceding month) to:

Stamped envelopes are included for your convenience.

**DRAFT**

Vessel Description Instructions

Vessel Name: Registered name of vessel

Official Number: The documentation number issued by the U.S. Coast Guard, or the certificate number issued by a state or by the U.S. Coast Guard for undocumented vessels

Radio Call Sign: Full radio call sign of vessel

Home Port: Documented home port or port where vessel is docked in off season

Length: Registered length overall

Year Built: Calendar year construction completed or as recorded in document papers

Net Tonnage: Recorded net tonnage

Engine Type: Specify if diesel or any other type

Horsepower: Rated horsepower of engine(s)

Electronics: List any electronic equipment that you think is noteworthy

Refrigeration: Type of refrigeration system, if any, such as circulating seawater

Processing Capability: Method of on-board processing, if any

Date of Report: Date report filled out

**DRAFT**

Joint Venture Trawl Log Instructions

Enter Vessel Name and Official Number on each page.

Enter Crew Size, Gallons of Fuel Used, and Departure/Return information on the first page and again whenever this information changes. (There is no need to write the same information on each page.)

List each tow made, even if no marketable fish are caught.

Departure/Return: Fill out each time vessel leaves port or returns (whether or not fish are offloaded).

Gallons of Fuel Used: Enter whenever fuel is added.

Tow Number: Number consecutively for each tow made by the trawler.

Processor Vessel: Name of foreign processor vessel that receives the codend

Delivery ID: If the foreign processor vessel has a unique number for each codend received, enter that number here. This will help you match your deliveries with information from the foreign processor vessel.

Time: 24-hour clock, local time

Set: Time the brake is set

Up: Time haul back is started

Del.: Time codend is delivered to foreign vessel (Please note if the delivery occurs on a different day than the tow .)

Area: Use either LORAN (specify if LORAN A is used); latitude and longitude (to the nearest 10' off Washington, Oregon, and California; to the nearest  $\frac{1}{2}^{\circ}$  latitude by  $1^{\circ}$  longitude off Alaska); or block number (for Washington, Oregon, or California only -- see map inside the back cover).

Depth, Net: Average distance of head rope from the surface

Temperature: In Celsius ( $^{\circ}$ C) at the depth of the net

Net Type: Enter the appropriate code --

1. Roller (bobbin) trawl
2. Pelagic (midwater or off-bottom) trawl
3. Bottom trawl (excluding pair trawl and Danish or Scottish seines)
4. Danish or Scottish seine
5. Pair trawl

Hail Weight: Estimated round weight of codend in metric tons  
(1 metric ton = 2,205 pounds; 1 pound = 0.00045 metric tons;  
1 short ton = 2,000 pounds; 1 metric ton = 1.1 short tons)

Catch by Categories: Enter percent meal/percent food grade, weight by species, or other data that are useful to you.

Joint Venture Trawl Log -- Vessel Description

**DRAFT**

Vessel Name \_\_\_\_\_

Length \_\_\_\_\_

Official Number \_\_\_\_\_

Net Tonnage \_\_\_\_\_

Radio Call Sign \_\_\_\_\_

Engine Type \_\_\_\_\_

Home Port \_\_\_\_\_

Horsepower \_\_\_\_\_

Year Built \_\_\_\_\_

Electronics \_\_\_\_\_

Refrigeration \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Processing Capability \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Captain or Owner \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Date of Report \_\_\_\_\_





MEMBER STATES

ALASKA  
CALIFORNIA  
IDAHO  
OREGON  
WASHINGTON

**PACIFIC MARINE FISHERIES COMMISSION**

528 S.W. MILL STREET  
PORTLAND, OREGON 97201  
PHONE (503) 229-5840

EXECUTIVE DIRECTOR  
JOHN P. HARVILLE

TREASURER  
G. L. FISHER

C-6

December 6, 1982

Jim Branson  
North Pacific Fishery  
Management Council  
P.O. Box 3136 DT  
Anchorage, AK 99510

Dear Jim:

Attached are drafts of joint venture logbook format and instructions for use. The logbook is designed for use by Alaska, Washington, Oregon, and California joint venture fishermen, and is therefore provided in this draft stage for consideration by the North Pacific Council and its SSC and Advisory Panel.

The impetus for a joint venture logbook originated with the Pacific Council in its discussions of a standard trawl logbook for the Washington-Oregon-California area. The joint venture fishery for whiting is a large volume, rapidly growing fishery, which is the only major groundfish fishery off the West Coast not covered by a logbook program; yet issues such as joint venture area closures and incidental catches were (and are) frequently raised at Council meetings.

The Council wanted to make sure that the joint venture fleet participated in the logbook program, and therefore the Council established a working group to develop a system for ensuring adequate coverage, even though the program is to be voluntary. The group consisted of representatives from the Pacific and North Pacific Councils, joint venture fishermen, PMFC, NMFS and the PFMC Groundfish Management Team. The group met in September (minutes attached) and concluded that the standard trawl logbook format was not adequate for joint venture fisheries. There also was consensus that it would be most convenient for fishermen and data processors if the same logbook were used by joint venture trawlers from Alaska to California. Therefore the participants agreed that a technical group, including representation from Alaska, should meet to devise a common format. The attached format and instructions are the product of this effort.

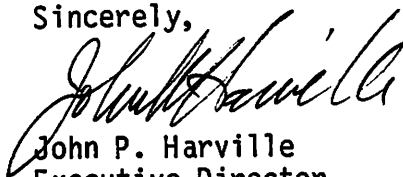
Let me emphasize that development of a joint venture logbook program has not been completed. The format is only the initial part; further decisions need to be made on who should edit and process the data, how it should be processed and in what format it should be reported. Confidentiality of individual fisherman data must of course be maintained, and provisions will be made to ensure that this is done.

It also must be emphasized that this is a state logbook program, and therefore that OMB approval is not necessary, and federal Paperwork Reduction Act requirements do not apply. Because it is a state program, the working group recommended that fishermen send the agency copy of each logbook trip sheet to the Pacific Marine Fisheries Commission. The data will likely be processed either by the PacFIN Data Manager, who is a PMFC employee, or by the NWAFC, both located in the same building. I therefore propose that the trip sheets be mailed directly to:

Will Daspit  
PacFIN Data Manager  
c/o National Marine Fisheries Service  
Northwest & Alaska Fisheries Center  
2725 Montlake Blvd., East  
Room 358, East Bldg.  
Seattle, WA 98112

The views of the North Pacific Council and the State of Alaska on this program will be appreciated.

Sincerely,



John P. Harville  
Executive Director

LDS: dmw

Attachment 1: Minutes of the Joint Venture Logbook Meeting, September 2, 1982  
Attachment 2: Draft of the Joint Venture Logbook

MINUTES  
JOINT VENTURE LOGBOOK MEETING  
Seattle, Washington  
September 2, 1982

John Harville chaired the meeting and called the session to order at 10:00 a.m. An attendance roster and agenda are appended as Attachments 1 and 2. The group convened to solicit participation of joint venture trawlers in the Pacific Council's logbook program and to discuss details of the program.

The Groundfish Management Team explained the data needs which could be satisfied by a joint venture logbook program covering catcher vessels. The following elements were listed as needed by the Team:

1. Area of catch.
2. Effort
3. Economic data
4. Net type
5. The time and the day
6. The percent meal grade
7. Duration of tow

The Team stated that average catch per tow can be obtained currently from the processor logs but duration of the tow cannot. There is a need to standardize U.S. and Canada effort whiting data, and duration of tow and the type of vessel are needed from the catcher vessel in order to do this.

Mick Stevens of Marine Resources Company emphasized that the format of the logbook needs to be designed so that it is useful to fishermen, especially if the Council wants 100% voluntary compliance.

There was some discussion on the inclusion of search time as a measure of effort on the joint venture logbook. Joe Easley pointed out the disadvantages of search time in that it varies with fisherman skill, sophistication of

electronics, vessel speed, environmental factors, and the degree of cooperation and communication among fishermen in searching for whiting schools.

Al Millikan stated that logbooks are essential for evaluating the impacts of joint venture area closures. John Harville stressed the need to obtain more detailed information on by-catch.

It was agreed that there is a need to key the catcher vessel logbook data with the corresponding processor logbook data for each tow. Joint venture fishermen could record the haul number from the processor on his catcher logbook.

Clarence Pautzke said there was a need to stipulate and publicize what types of summary logbook data would be made available to the public. The group agreed that the summary area should not be smaller than the standard 10' X 10' block which was conceived by the Logbook Working Group.

Kate King distributed copies of the current processor logbook format used by NMFS (Attachment 3). She mentioned that there was currently no method of tying the catcher log to the processor log. The fishermen should record the processor haul number on his logbook, using the vessel code and tow number code currently employed by the observers. There is a need to link the observer data (species composition, age composition) with each tow.

Discussion on the need for temperature data ensued. Roar Joraholmer of Joint Trawlers - North Pacific, emphasized the need for space on the logbook to record the temperature at fishing depth.

Percent of the catch that goes toward meal is recorded on a daily basis on the processor logbook. If these data are needed on a tow-by-tow basis, fishermen should record this item on the catcher vessel logbook.

The group concluded that the Council's standard trawl logbook format (Attachment 4) was inadequate for joint venture fisheries. It does not provide space for the haul number which is necessary to key the processor and

catcher logs together, nor space for temperature or % meal grade. Moreover, it lists many species which are not target joint venture species. The format used on a trial basis in <sup>1981</sup> 1981 (Attachment 5) may be more appropriate. Furthermore, the current processor logbook does not satisfy all the data needs. There was also consensus that the joint venture logbook format be standard coast wide including Alaska. It was agreed that a technical group should meet to agree on a format for the joint venture logbook. This group will include representation from the Pacific Council's Groundfish Management Team, North Pacific Council Groundfish Teams, NMFS and industry. Larry Six will set up a meeting date and contact all parties. Clarence Pautzke will inform Larry Six of appropriate NPFMC representatives.

The group agreed there was no need to provide summaries of catcher/processor logbook data sooner than on an annual basis. Weekly summaries of joint venture & foreign catch data are provided currently by NMFS. The most convenient means of collecting the logs is to provide envelopes to fishermen and ask them to mail the trip sheets to a central location. Since this is a state logbook program, the group agreed that PMFC should be the central collection point for all logbook data. Logbook sheets could be sent either to the PMFC office in Portland or to PMFC employee Will Dasplit at the Northwest and Alaska Fisheries Center in Seattle.

The data should be processed at the Northwest and Alaska Fisheries Center which currently processes all other foreign and joint venture data. Both the processor and catcher logbook data should be entered on the computer and merged at some appropriate time. As always, confidentiality of individual data must and will be maintained.

Once the joint venture catcher vessel logbook format is designed, joint venture representatives will meet with their fishermen and obtain input on the format and other aspects of the program. Both joint venture representatives were supportive of the program.

The meeting was adjourned at 1:00 p.m.

ATTENDANCE  
JOINT VENTURE LOGBOOK  
September 2, 1982

<u>Name</u>	<u>Organization/Address</u>
Robert J. Ayers	NMFS - Northwest Region, Seattle
Will Daspit	Pac-FIN, Seattle
Joe Easley	PFMC Member, Astoria
Robert J. Francis	NWAFRC, Seattle
John Harville	PFMC Member - PMFC Exec. Director, Portland
Roar Joraholmer	Joint Trawlers North Pacific, Seattle
Kate King	NMFS - N.W. Region, Seattle
Al Millikan	WDF/Groundfish Team, Seattle
Russ Nelson	NWAFRC, Seattle
Clarence Pautzke	NPFMC Staff, Anchorage
Jack Robinson	ODFW/Groundfish Team, Newport
Larry Six	PFMC Staff, Portland
Mick Stevens	Marine Resources Company, Seattle

Tentative Agenda

Joint Venture Logbooks  
September 2, 1982  
Northwest and Alaska Fisheries Center  
Seattle, Washington

- I. Call to order and selection of a chairman
- II. Data needs satisfied by the trawl logbook program, with particular reference to joint venture fisheries  
Groundfish Team
- III. The NMFS processor logbook program  
Kate King
- IV. Distribution and collection of logbooks from joint venture fishermen -- responsibility, methods, frequency, etc.
- V. Processing and reporting of logbook data -- responsibility, frequency, specifications
- VI. Other



JOINT VENTURE  
DAILY RECEIPT LOG

FISHING AREA: Columbus 71 DATE (D-M-Y): 30/6/82

BOOK NO: 1  
PAGE NO: 1

VESSEL NAME: NAVTS VESSEL TYPE: Processor U.S. OBSERVER: Susan Anthony  
 NATIONALITY: United Kingdom PERMIT NO: UK-82-0000-A U.S. BOARDING OFFICER: \_\_\_\_\_  
 CAPTAIN: Kangaroo RADIO CALL SIGN: WXYZ COMMENTS: 4 m seas; vodka gone; female fur seal drowned in traw

RECEIPT NUMBER	1	2																							
NAME OF DELIVERING VESSEL	<u>America-1</u>	<u>Eagle</u>																							
TIME OF RECEIPT (GMT)	<u>1300</u>	<u>1720</u>																							
POSITION AT RECEIPT	<u>44° 23' N 126° 30' W</u>	<u>45° 44' N 125° 12' W</u>																							

CODE	SPECIES NAME	RECEIPT 1			RECEIPT 2																				
		DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT	DECK ESTIMATE	DISCARD	FACTORY WEIGHT
704	White Pacific	20.0	-	19.5	22.6	-	22.6																		
708	Mackerel Jack	1.03	-	1.03	-	-	-																		
780	Pacific Ocean	-	-	-	-	-	-																		
849	Rockfish excluding Pacific Ocean Patch	-	-	-	0.50	-	0.40																		
703	Sablefish	-	-	-	-	-	-																		
128	Flounders	-	-	-	0.01	0.01	-																		
498	Other Species	5.21	3.50	1.71	1.50	0.22	1.61																		

PROHIBITED SPECIES (By Fish)		1	2
710	Salmon	-	-
722	Haircut	-	-
	Other (Specify)	-	-

MARINE MAMMALS (Specify)
<u>1 fur seal</u>

LOG DATA ENTERED BY: Kangaroo

CODE	SPECIES NAME	DECK ESTIMATE	DISCARD	FACTORY WEIGHT		TOTAL	TOTAL PROHIBITED SPECIES (BY NO. OF FISH)		
				HUMAN CONSUMPTION	FISH MEAL		210	722	Other (Specify)
704	White Pacific	42.6	-	39.4	2.5	42.1	210	Salmon	3
708	Mackerel Jack	1.03	-	-	1.03	1.03	722	Haircut	-
780	Pacific Ocean	-	-	-	-	-		Other (Specify)	-
849	Rockfish excluding Pacific Ocean Patch	0.50	-	-	0.40	0.40			
703	Sablefish	-	-	-	-	-			
128	Flounders	0.01	0.01	-	-	0.01			
498	Other Species	6.71	3.72	2.80	0.52	7.04		MARINE MAMMALS (Specify)	1 fur seal

LOG DATA ENTERED BY: \_\_\_\_\_



### 1981 DAILY FISHING LOG OF THE JOINT VENTURE VESSEL

DAY	SEARCH TIME (HRS)	TOW				GEAR		CATCH			CODEND TOWED TO PROCESSOR +			NOTES	
		NO.	TIME 24 HR. CLOCK	DEPTH (FMS)	LAT. N	LONG. W	CODE	DEPTH (FMS)	TEMP (C°)	ESTIMATE	ACTUAL	%FOOD GRADE	N. MI.		HRS. REQUIRED
			S		° /	° /									
			H		° /	° /									
			S		° /	° /									
			H		° /	° /									
			S		° /	° /									
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			S		° /	° /									
			H		° /	° /									

COMMENTS

L INDICATES CODEND NOT TOWED

S = SFT

H = HALL

# DRAFT

## INTRODUCTION

This Joint Venture Trawl Logbook, developed by the Pacific Fishery Management Council, the North Pacific Fishery Management Council, the National Marine Fisheries Service, the Pacific Marine Fisheries Commission, and the States of Washington, Oregon, California, and Alaska, provides a consistent format for recording trawl data from joint venture operations conducted off the coasts of Washington, Oregon, California, and Alaska. Do not use this logbook for any shoreside deliveries. Information in this logbook will not be used for enforcement purposes.

Submission of this information is voluntary in all four states. Send the duplicate page and leave the original copy intact in the logbook for your own use. Include the Vessel Description page with your first submission of the Joint Venture Trawl Log each year, and again if any of the recorded information changes during the year. Please mail your logs by the 15th of each month (for deliveries made the preceding month) to:

Stamped envelopes are included for your convenience.

**DRAFT**

Vessel Description Instructions

Vessel Name: Registered name of vessel

Official Number: The documentation number issued by the U.S. Coast Guard, or the certificate number issued by a state or by the U.S. Coast Guard for undocumented vessels

Radio Call Sign: Full radio call sign of vessel

Home Port: Documented home port or port where vessel is docked in off season

Length: Registered length overall

Year Built: Calendar year construction completed or as recorded in document papers

Net Tonnage: Recorded net tonnage

Engine Type: Specify if diesel or any other type

Horsepower: Rated horsepower of engine(s)

Electronics: List any electronic equipment that you think is noteworthy

Refrigeration: Type of refrigeration system, if any, such as circulating seawater

Processing Capability: Method of on-board processing, if any

Date of Report: Date report filled out

# DRAFT

## Joint Venture Trawl Log Instructions

Enter Vessel Name and Official Number on each page.

Enter Crew Size, Gallons of Fuel Used, and Departure/Return information on the first page and again whenever this information changes. (There is no need to write the same information on each page.)

List each tow made, even if no marketable fish are caught.

Departure/Return: Fill out each time vessel leaves port or returns (whether or not fish are offloaded).

Gallons of Fuel Used: Enter whenever fuel is added.

Tow Number: Number consecutively for each tow made by the trawler.

Processor Vessel: Name of foreign processor vessel that receives the codend

Delivery ID: If the foreign processor vessel has a unique number for each codend received, enter that number here. This will help you match your deliveries with information from the foreign processor vessel.

Time: 24-hour clock, local time

Set: Time the brake is set

Up: Time haul back is started

Del.: Time codend is delivered to foreign vessel (Please note if the delivery occurs on a different day than the tow .)

Area: Use either LORAN (specify if LORAN A is used); latitude and longitude (to the nearest 10' off Washington, Oregon, and California; to the nearest  $\frac{1}{2}^{\circ}$  latitude by  $1^{\circ}$  longitude off Alaska); or block number (for Washington, Oregon, or California only -- see map inside the back cover).

Depth, Net: Average distance of head rope from the surface

Temperature: In Celsius ( $^{\circ}\text{C}$ ) at the depth of the net

Net Type: Enter the appropriate code --

1. Roller (bobbin) trawl
2. Pelagic (midwater or off-bottom) trawl
3. Bottom trawl (excluding pair trawl and Danish or Scottish seines)
4. Danish or Scottish seine
5. Pair trawl

Hail Weight: Estimated round weight of codend in metric tons  
(1 metric ton = 2,205 pounds; 1 pound = 0.00045 metric tons;  
1 short ton = 2,000 pounds; 1 metric ton = 1.1 short tons)

Catch by Categories: Enter percent meal/percent food grade, weight by species, or other data that are useful to you.

Joint Venture Trawl Log -- Vessel Description

**DRAFT**

Vessel Name \_\_\_\_\_

Length \_\_\_\_\_

Official Number \_\_\_\_\_

Net Tonnage \_\_\_\_\_

Radio Call Sign \_\_\_\_\_

Engine Type \_\_\_\_\_

Home Port \_\_\_\_\_

Horsepower \_\_\_\_\_

Year Built \_\_\_\_\_

Electronics \_\_\_\_\_

Refrigeration \_\_\_\_\_

Processing Capability \_\_\_\_\_

Captain or Owner \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Date of Report \_\_\_\_\_





