

DOMESTIC GROUND FISH LOGBOOK PROGRAM

Introduction

Alaskan waters provide one of the world's largest groundfish fisheries. Foreign vessels have dominated this fishery for the past two decades, but in recent years, a domestic fishery has emerged into the waters of the FCZ. As this domestic fleet continues to grow, so will the need for time-area catch information on which sound fishery management decisions can be made. The information obtained from domestic vessels will augment statistics collected aboard foreign vessels fishing the same area and provide valuable new insight into other areas as domestic vessels fish waters closed to foreign fishing. Collection of this information can be accomplished through a standardized logbook program managed by the State of Alaska.

The logbook program would serve both trawlers and longliners while providing fishery management agencies with valuable catch information. The logbook would be the primary record used by the vessel to record catch and effort information by area. As the catch is recorded, a copy page would be also made, with the copy page removable from the log. This will allow a permanent bound logbook to remain on the vessel and a copy page to be submitted for data entry. Vessels supplying the copy page will receive a computer summary, by time and area, of the information presented on the record, while being assured of the data's confidentiality. The management agency can utilize the data in mass for time-area analysis, comparison of CPUE per vessel size and type, comparison to harvest tickets, and analysis of trends in the fisheries covered.

The concept of a log book program as outlined has support from industry and should be easily accepted by vessel captains. Providing a logbook to vessels will standardize recording format throughout the domestic fleet and make data entry from diverse fisheries easier to manipulate both at the analysis stage, and during data entry. When the program is recognized as a tool to help fishermen better analyse their fishing performance through data analysis summaries, the quantity and quality of submissions should increase providing an excellent record on which to base sound management decisions.

Development and implementation of a domestic groundfish logbook program will require the acquisition of a biometrician familiar with Alaska logbook procedures and mini-micro computer systems. The person selected will be able to organize a logbook format meeting the needs of both fishermen and managers and then implement schemes to put collected data into a system responsive to everyone's fishery needs.

Objectives

The domestic logbook program will provide a mechanism to collect catch information otherwise unavailable to manage the groundfish fishery on a year to year basis while providing the fisherman with a standardized set by set record of groundfish catches. This will be accomplished by:

1. development of a standardized logbook that will be used as the main bridge log for all landings made by US groundfish vessels;
2. development of computer software to enter data into micro-or mini-computer system(s) operated by ADF&G; and
3. development of computer software to manipulate and analyse logbook information by producing standardized programs and reports.

Statement of Work

The Contract will perform the following tasks:

Task I - Prepare a detailed plan and PERT chart.

Task II - Prepare an acceptable logbook format that will adequately provide the following:

A. Trawler Daily Record

1. Date
2. Haul Number
3. Position
4. Time
5. Depth
6. Total weight of haul
7. Catch weight by species
8. Weight of discards or miscellaneous species
9. Room for comments per haul
10. Vessel name and official number

B. Longliner Daily Record

1. Same as items A1 to A10
2. Number of skates
3. Number of hooks per skate
4. Hook spacing
5. Hook size

C. Trawler and Longliner Vessel Data - Page(s) at beginning of logbook.

1. Vessel name and official number
2. Length
3. Net tonnage
4. Horsepower
5. Engine type - Make
6. Year built
7. Home port
8. Radio call sign
9. Number in crew

D. Format restrictions include:

1. Each recording page must be a set of two pages with one of the pages removable and of the mark-sense-carbonless copy type. A cardboard flap will be provided for insertion under second-copy page when recording data.
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2. Logbook will measure less than or=to 8 1/2 x 14".
3. Logbook will be bound so that it can lay flat when recording information.

Task III - Develop computer software to enter collected data on mini-or micro-computer systems available to ADF&G.

Task IV - Develop computer software to manipulate the data in standardized processed reports and provide programming flexibility to meet ad hoc reporting requirements.

Task V - Prepare manuals for data input, aquisition, and manipulation.

Task VI - Supervise initial data entry and data processing and correct miscellaneous operational problems as they arise during the startup period.

Project Schedule

June 1, 1981	Project Begun -
July 1, 1981	Logbook format presented to interested parties for consideration. Logbook sent to printer.
August 1,	Logbooks distributed to fleet.
September 1,	First quarterly progress report.
October-November	First data returned for data entry.
December 1, 1981	Second quarterly progress report.
February 1, 1982	First individual composite report on vessel landings sent to commercial fishermen who participated.
March 1, 1982	Third quarterly report. Preliminary data summary on all vessels and types by management areas.
April 1, 1982	Ruff final report on success of project, demonstration of computer product deliverables derived from contract.
May 1, 1982	Report finalized - If project successful, prepare additional logbooks for distribution.

Biometrician 17B		41,300
Logbooks Printing	Initial 50 x \$25=	1,250
	Final 250 x \$8 =	2,000
Travel		3,450
Final Report & Telephone		3,100
Computer Rental		2,800
Misc. Office		<u>600</u>
Overhead		54,500
		<u>5,500</u>
Total Project		60,000

