

ALASKA CRAB ECONOMIC DATA REPORT DATA VALIDATION EXTENSION

Report Prepared for Pacific States Marine Fisheries Commission

1998, 2001, 2004, & 2005 Calendar Year Data

April 2008

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INTRODUCTION

BACKGROUND

The Bering Sea and Aleutian Islands (BSAI) Crab Rationalization Program was developed to create a quota system that grants exclusive harvesting and processing rights to crab harvesters, processors and coastal communities. Economic data reports (EDRs) were developed to aid the North Pacific Management Council (Council) and National Marine Fisheries Service (NMFS) in assessing the success of the program and developing amendments necessary to mitigate any unintended consequences. To ensure that the data submitted by respondents in the EDRs is accurate, Pacific States Marine Fisheries Commission (PSMFC) contracted AKT, LLP (AKT) to develop a process to review the data contained within submitted EDRs, including verification audits for those EDRs containing odd or suspicious data values, and conducting random audits for a certain percentage of submitted EDRs.

This project is a continuation of the work performed in 2006 on the 1998, 2001, 2004, and 2005 data analysis described above. NMFS requested additional and more extensive analysis of the 1998-2005 EDR support documentation subsequent to the 2006 EDR data validation. NMFS asked for analysis similar to the 2006 EDR project for the 1998-2005 EDR selections to provide a consistent comparison across all years. For a full description of the validation project and initial analysis performed on the 1998-2005 EDR selections, please refer to the original report written on that project.

SCOPE OF WORK

In order to perform the additional documentation analysis, the following procedures were requested by NMFS:

 Critical Review of Documentation Type – Review and analysis of supporting documentation for each variable audited, noting how frequently each document type was used as support for the years 1998, 2001, 2004, and 2005.

The methodologies to address the above procedure are outlined later in this report.

Based on conversations with NMFS the following key objective of the analysis was agreed: characterize and quantify the type of supporting documentation by year for each audited variable.

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KEY INFORMATION

A statistical sample was determined based on a total submitted population of 268 catcher vessels, processors, and stationary floating & shoreside processors. This sample was comprised of all unique submitters of information (see original report for basis of the statistical sample). The following table summarizes the number of EDRs submitted by vessel type and the resulting sample size.

		# EDRs	submitted		Sample
	1998	2001	2004	2005	
Catcher Vessel	225	220	237	164	33
Catcher Processor	8	7	9	8	3
Stationary Floating & Shoreside Processors	24	23	20	17	5

AKT reviewed the originally provided supporting documentation from the selected sample population. No additional sampling was performed and no additional documentation was obtained from the original sample population.

METHODOLOGY

The following is a summary of the steps taken to perform the supplemental analysis of the 1998, 2001, 2004 and 2005 documentation.

- Review initial audit notes. To gain an understanding of the work that was performed by AKT in the initial audit of the submitted documentation for 1998-2005, AKT reviewed audit work papers for each randomly selected vessel and processor.
- 2) Perform analytical review of supporting documentation. This process involved review of the audit work paper notes from the audits performed by AKT for the years 1998-2005 to characterize the different types of support given for each variable and the frequency with which each type of support was used.
- 3) Summarize results of documentation analysis. The available supporting evidence was classified in categories and grouped by year and variable. This grouping process made it possible to analyze the type of support used across years. These results are summarized in "Findings" below.

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FINDINGS

AKT developed the following classifications to describe the documentation provided by vessels and processors:

Documentation Provided

 Provided documentation was separated by type, counted, and then organized by year and variable for vessels and processors. This is shown in Exhibits 2 and 3.

Documentation Not Provided

- For a given year, vessels may not have provided documentation for each requested variable. If no
 documentation was provided for a specific variable, it was classified as "No Support". This is
 shown in Exhibits 2 and 3.
- For a given year, vessels may not have provided any documentation for all requested variables. If no documentation was provided for a specific year, it was classified as "Did Not Provide". An analysis of how many vessels provided documentation for each year is given in Exhibit 1.

CONCLUSION

It is important to include the conclusions from the initial audit analysis performed on this sample population in 2006 along with the conclusions from the additional documentation analysis. This enables one to obtain a bigger picture of how the documentation analysis ties to the EDR validation.

Below is a brief summary of the relevant conclusions from the initial audit performed on the randomly selected vessels and processors for the years 1998-2005:

- 1) The quality of the records differ by vessel.
- 2) Historical data (1998) is not always supported.
- 3) Current data (2005) was not always supported, either.

The conclusions stated above have the most significance and still apply to this extended documentation analysis.. As shown in Exhibits 1-3, many vessels did not provide information for all the requested years, and for any given year a vessel may not have provided supporting documentation for all the requested variables. This factor is important to keep in mind when viewing the documentation analysis as one year may look more supported than another year. As the years progressed from 1998 to 2005, the type of support given for each variable became more robust. Computerized accounting systems were used more frequently to produce documentation in 2005 than in 1998, which may be due to increased computer use by vessel owners and operators. In addition, more documentation was provided for 2005 than earlier years. The EDR validation request was made in 2006, thus documentation may have been more readily available to vessel owners and operators for the year 2005.

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EXHIBIT 1

Note: It is important to take note that some vessels did not provide supporting documentation for all years requested. Therefore, we have also performed an analysis of how many vessels submitted documentation for each year. We believe this information will help explain why some years may appear to have more in-depth support than others.

Requested Years	Vessel Count - Did Provide	Vessel Count - Did Not Provide
1998	18	8
2001	20	7
2004	25	1
2005	15	11
Requested Years	Processor Count - Did Provide	Processor Count - Did Not Provide
Requested Years	Processor Count - Did Provide 5	Processor Count - Did Not Provide
1998	5	2

Seven vessels did not provide any information for any of the requested years and were not included in the analysis. See prior year report for explanation.

One processor did not provide any information for any of the requested years and was not included in the analysis. See prior year report for explanation.

Note: The 2005 data count is in a separate column because there were additional variables audited in 2005 that were not included in the EDR of the previous years. It is also important to note that a vessel may have left a variable blank, or a vessel may have provided more than one type of documentation. This is why there are different documentation counts for each variable type within a given year.

Data Type	1998 Count	2001 Count	2004 Count	2005 Data Type	2005 Count
Days at Sea				Days at Sea	
Client Prepared Summary of settlement sheets	1	1	1	Client Prepared Summary of settlement sheets	1
Trip Summary Sheet Log Book	1 1	1 1	1 1	Trip summary sheet Log Book	1 1
-				-	
Crab Processing Days Client Prepared Summary of settlement sheets	1	1	2	Days Traveling and Offloading Client Prepared Summary of settlement sheets	1
Fish Ticket Detail	1	1	1	Trip summary sheet	1
Estimation Log Book	1	0 1	1 1	Log Book	1
Production Reports	1	1	1	Crab Processing Days	
PBC Reports	1	2	2	Client Prepared Summary of settlement sheets	1
No support	1	1	0	Trip summary sheet Log Book	1
Raw Pounds				Fish Ticket Detail	1
Client Prepared List of fish tickets Purchase Recap	1	1	1 0	Client Prepared Reports No Support	1 2
Trip Summary sheet	Ö	0	1	140 одрън	_
Fish Tickets Tax Worksheet	1	1	1 1	Raw Pounds Client Prepared List of fish tickets	2
Production Reports	1	1	2	Trip summary sheet	1
Client Prepared Reports	0	1	0	Fish tickets	1
Fish Ticket Detail	1	1	1	Fish Ticket Detail No Support	1 2
By Product Variables*					
Financial Statements Management discussion	1 2	1 2	1 2	By Product Variables* Financial Statements	1
Estimations	1	0	0	Management discussion	2
Trip summary sheet	0	1	0	Production Reports	3
Production Reports Client Prepared Reports	3	4 0	5 1	No Support	2
No Support	Ö	0	1	Crew Earning Shares	
Crew Earning Shares				Crew log Settlement sheets	1
Crew Larring Shares Crew log/Crew List	2	2	1	Trip Summary sheet	1
Crew Settlement sheets	1	1	1	Quarterly Wage Detail	1
Quarterly Wage Detail Trip summary sheet	0	0	1 1	Total Crew Payments	
No support	1	0	0	Client Prepared Individual trip sheets	1
Total Crew Payments				Trip Summary sheet Quarterly Wage Detail	1
Client Prepared Individual trip sheets	1	1	1		
Quarterly Wage Detail	0	0	1	Total Captain Payments	
Trip summary sheet Crew log/Crew List	0 1	1 1	1 0	Client Prepared Individual trip sheets Trip Summary sheet	1 1
No support	1	0	0	General Ledger	1
Total Captain Payments				Crew with pay from Processing	
Client Prepared Individual trip sheets	1	1	1	Estimation	1
Quarterly Wage Detail Trip summary sheet	0	0 1	1 1	Crewmember Info. Report Quarterly Wage Detail	1 1
Crew log/Crew List	1	1	0	Quarterly Wage Detail	•
No support	1	0	0	Total Man Hours Estimation	1
Crew with pay from Processing				Labor Distribution Report	1
Estimation	1	1	2	No Support	2
Quarterly Wage Detail Crew log/Crew List	0 1	0 1	1 0	Total Processing Labor Pay	
No support	1	1	0	Crew logs	1
Total Man Hours				Estimation Direct Labor/Distribution report	1 2
Estimation	0	0	1	Quarterly Wage Detail	1
Plant Labor Report	1	1	1	No Support	2
Wage Report	1	ı	2	By Product Variables - Total*	
Total Processing Labor Pay				Sales Analysis	1
Crew logs/Crew List Estimation	2 1	2 1	1 2	Sales Price Table Production Reports	1 1
Income Statement Analysis	1	1	0	Commercial Operator's Report	1
Quarterly Wage Detail Processor Wages Report	0 2	0 2	1 4	No Support	2
No Support	0	0	1	Insurance Premium	
De Des des Marielles - Totali				Income Statement	1
By Product Variables - Total* Client Prepared Data Reports	0	0	1	General Ledger No Support	1
Crab Inventory Costing	2	0	1		
Intra Company Transfers Sales Price/Sales Report	0 2	1 3	0 3	Insurance Deductible fees Income Statement	1
Production Reports	1	2	2	General Ledger	1
Commercial Operator's Report	1 2	1	1 2	No Support	2
No Support	۷	1	4	Processing and Packing Materials	
Insurance Premium				Client Prepared Spreadsheets	1
Income Statement General Ledger	1 1	1	1 1	No Support	2
No Support	1	1	1	Bait Cost	
Insurance Deductible fees				Income Statement Trip Summary sheets	1 1
Income Statement	1	1	1	Invoices	1
Income Statement Analysis	0	1	0		
General Ledger No support	1 2	1 2	2 3	Fuel cost Income Statement	1
				Trip Summary sheets	1
Processing and Packing Materials General Ledger	0	0	2	Invoices General Ledger	1 1
Lougo.	-	·	-	_ 3a. 200go.	•

Client Prepared Spreadsheets Purchase Summary	2	2 1	2
Bait Cost			
Income Statement	1	1	1
Trip summary sheets	1	1	1
Invoices	1	1	1
Fuel cost			
Income Statement/Analysis	1	2	1
Trip summary sheets	1	1	1
Invoices	1	1	1
Crab Settlement	0	1	0
General Ledger	1	1	3
Monthly Utilities Schedule	1	1	1
Fish Taxes			
Income Statement	1	1	1
Purchase Recap	1	1	2
Income Statement Analysis	0	1	0
Tax Return	2	1	1
General Ledger	0	1	0
Client Prepared Data Reports	1	1	2
Capitalized expenditures			
Income Statement	1	1	1
Capitalized Expenditures worksheet	2	3	2
General Ledger	1	0	3
Repairs and Maintenance			
Income Statement	1	1	1
Income Statement Analysis	1	2	0
General Ledger	3	2	6
Number of Salaried Employees			
Nothing	1	1	1
Labor Distribution Reports	1	1	1
Client Prepared Reports	0	1	0
Cost Reports	0	0	1
No support	3	3	4
Total Pay for Salaried Employees			
Nothing	1	1	1
Income Statement Analysis	1	2	0
General Ledger	1	1	2
Copied Checks	0	0	1
Client Prepared Reports	1	1	1
No Support	1	1	2
Days @ Sea Total			
Client Prepared Summary of settlement sheets	1	1	1
Log Books	1	1	1
No Support	1	1	1
Processing Days Total			
Client Prepared Summary of settlement sheets	1	1	1
Log Books	2	2	2
Client Prepared Data Reports	1	2	3
No Support	1	1	1

* By product variables include: Process code, product code, finished pounds, if the product was customed processed, and FOB revenues. The support shown for these variables is consistent across all years and variables, therefore they have been lumped into one category for the purposes of this report.

No Support	2
Fish Taxes Income Statement Purchase Recap Tax Return No Support	1 1 1 2
Capitalized expenditures Income Statement Fixed Asset Master List General Ledger No Support	1 1 1 2
Repairs and Maintenance Income Statement Estimation General Ledger No Support	1 1 2 2
Number of Salaried Employees Nothing Estimation Labor Distribution Report No Support	1 1 1 3
Total Pay for Salaried Employees Nothing General Ledger Client Prepared Reports No Support	1 2 1 2
Days @ Sea Total Client Prepared Summary of settlement sheets Log Book No Support	1 1 1
Processing Days Total Client Prepared Summary of settlement sheets Client Prepared Data Reports Log Book No Support	1 1 1 2

Note: The 2005 data count is in a separate column because there were additional variables audited in 2005 that were not included in the EDR of the previous years. It is also important to note that a vessel may have left a variable blank, or a vessel may have provided more than one type of documentation. This is why there are different documentation counts for each variable type within a given year.

Data Type	1998 Count	2001 Count	2004 Count	2005 Data Type	2005 Count
Days at Sea				Days at Sea	
Client Prepared Summary	3	4	5	Client Prepared Summary	3
Fish Tickets Log Book	0	2	3 2	Estimation Crew Settlement Sheets	3 3
Crew Settlement Sheets	6	6	5	No Support	6
Trip Summary	0	1	1	••	
Estimation	2	2	3	Days Traveling and Offloading	
Port days analysis	2 5	2	1 4	Crew Settlement Sheets	1
No Support	5	3	4	Crew Earning Shares	
Crew Earning Shares				Crew Settlement sheets	12
Client Prepared Crew Shares Sheet	2	1	1	Trip Summary sheet	1
Crew Settlement sheets	13	18	21	Form 1099	1
Form 1099	1	1	1	Total Craw Baymanta	
No support	2	1	1	Total Crew Payments Crew Settlement Sheets	13
Total Crew Payments				Form 1099	1
Cilent Prepared Hand Written Statement	1	0	0		
Client Prepared Settlement Sheets	1	1	1	Total Captain Payments	
Crew Settlement Sheets	13	18 0	20	Crew Settlement Sheets	12
Settlement Report Form 1099	0 1	1	1 1	Form 1099 No Support	1 1
No support	2	1	1	140 Сирроп	'
				IFQ A Transferred: Revenue	
Total Captain Payments		_	_	Crew Settlement Sheets	1
Cilent Prepared Sattlement Shoots	1	0	0	Vendor Calculation Spreadsheet	3
Client Prepared Settlement Sheets Crew Settlement Sheets	1 13	1 18	1 20	Settlement Sheets Leased Quota Work paper	2 1
Settlement Report	0	0	1	Leased Quota Work paper	1
Form 1099	1	1	1	IFQ B Transferred: Revenue	
No support	1	1	1	Settlement Sheets	1
				Vendor Calculation Spreadsheet	2
Insurance Premium Financial Statement	7	4	5	IFQ A Transferred: Cost	
Check Register	0	1	1	Crew Settlements	2
General Ledger	4	5	5	Client Prepared Worksheet	1
Invoices	4	3	3	Catcher's Allocation Sheet	1
Estimation	1	1	2	Profit and Loss Statement	1
Tax Return	0	1	1	No Support	2
Internal Cost Detail QuickBooks Report	0	0	1 2	IFQ B Transferred: Cost	
Crew Settlement	0	0	1	Client Prepared Worksheet	1
No Support	1	3	2	Catcher's Allocation Sheet	1
				Profit and Loss Statement	1
Insurance Deductible fees Income Statement	1	2	1	No support	2
Invoices	1	1	0	Insurance Premium	
General Ledger	0	2	2	Financial Statements	1
Expense Fund Deduction Report	1	1	1	Check Register	1
Estimation	0	0	1	General Ledger	4
Email No support	2 2	1	2	Tax Return Invoices	1 3
No support	2	'	'	Estimation	1
Bait Cost				QuickBooks Report	1
Income Statement/Financial Statements	3	2	2	No Support	3
Fish Ticket Detail	0	1	0		
Invoices	5 8	5 8	8 9	Insurance Deductible fees	4
General Ledger Accounting System Export	0	0	1	Income Statement General Ledger	1 2
Estimations	1	1	2	Catcher's spreadsheet	1
Crew Settlement Sheets	3	5	5	·	
Tax Return	1	2	2	Bait Cost	
Trip Summary	0	1	1	Income Statement	1
No Support	2	1	1	Invoices Estimations	5 1
Fuel cost				Tax Return	1
Financial Statement/Analysis	1	0	2	Crew Sheets	2
Fish Ticket Detail	0	2	1	General Ledger	8
Invoices	3	6	6	Catcher's spreadsheet	1
Estimations General Ledger	5 7	5 6	7 4	Fuel cost	
Accounting System Export	0	0	1	Income Statement	1
Settlement Report	0	3	5	Trip Summary sheets	1
Tax Return	0	1	0	Invoices	4
Internal Cost Detail	2	1	1	General Ledger	4
		1	1	Estimations Tax Return	3 1
Trip Summary	0		2	I dx Deluiii	1
Trip Summary No Support		Ö	2		2
No Support	0		2	Internal Cost Detail	2
	0		3		
No Support Fish Taxes Financial Statement Settlement Sheets	0 1 2 4	0 2 3	3 4	Internal Cost Detail Vendor Summary Fish Taxes	1
No Support Fish Taxes Financial Statement Settlement Sheets Invoices	0 1 2 4 3	0 2 3 3	3 4 6	Internal Cost Detail Vendor Summary Fish Taxes Income Statement	2
No Support Fish Taxes Financial Statement Settlement Sheets Invoices Tax Return	0 1 2 4 3 1	0 2 3 3 1	3 4 6 0	Internal Cost Detail Vendor Summary Fish Taxes Income Statement Client Prepared Crab Cost Worksheet	1 2 1
No Support Fish Taxes Financial Statement Settlement Sheets Invoices Tax Return General Ledger	0 1 2 4 3 1 6	0 2 3 3 1 5	3 4 6 0 7	Internal Cost Detail Vendor Summary Fish Taxes Income Statement Client Prepared Crab Cost Worksheet Fish Tickets	1 2 1 1
No Support Fish Taxes Financial Statement Settlement Sheets Invoices Tax Return General Ledger Fish Tickets	0 1 2 4 3 1	0 2 3 3 1	3 4 6 0 7 2	Internal Cost Detail Vendor Summary Fish Taxes Income Statement Client Prepared Crab Cost Worksheet Fish Tickets Tax Return	1 2 1 1
No Support Fish Taxes Financial Statement Settlement Sheets Invoices Tax Return General Ledger Fish Tickets Crew Settlement Sheets Fish Ticket Inquiry Report	0 1 2 4 3 1 6 0	0 2 3 3 1 5 3	3 4 6 0 7	Internal Cost Detail Vendor Summary Fish Taxes Income Statement Client Prepared Crab Cost Worksheet Fish Tickets Tax Return General Ledger Invoices	1 2 1 1
No Support Fish Taxes Financial Statement Settlement Sheets Invoices Tax Return General Ledger Fish Tickets Crew Settlement Sheets	0 1 2 4 3 1 6 0 4	0 2 3 3 1 5 3 4	3 4 6 0 7 2 5	Internal Cost Detail Vendor Summary Fish Taxes Income Statement Client Prepared Crab Cost Worksheet Fish Tickets Tax Return General Ledger	1 2 1 1 1 5

No Support	2	1	1	No Support	1
Capitalized expenditures				Capitalized expenditures	
Fixed Asset Master list	2	3	2	Fixed Asset Master List	1
General Ledger	3	2	4	General Ledger	1
Client Prepared Worksheet	0	1	1	Reconciliation from Check Register	1
Tax Return	1	1	1	Tax Return	1
Estimation	0	0	1	Estimation	1
No Support	4	6	3	Invoices	1
				No Support	3
Repairs and Maintenance					
Financial Statements	4	3	3	Repairs and Maintenance	
Income Statement Analysis	3	3	1	Income Statement	2
General Ledger	2	7	9	Estimation	2
Check Register	0	1	1	General Ledger	6
Estimation	3	3	5	Tax Return	1
Invoices	1	1	3	Invoices	2
Tax Return	1	2	2	QuickBooks Report	1
Client Prepared Expense Listing	0	0	1	Check Register	1
QuickBooks/System Report	0	0	2		
No Support	6	4	2	Days @ Sea Total	
				Client Prepared Summary	4
Days @ Sea Total				Crew Settlement Sheets	1
Client Prepared Summary	5	4	5	Log Book	1
Port Days Analysis	2	2	3	Estimation	3
Un-aditable Data	0	1	1	No Support	5
Estimation	3	2	3		
Crew Settlement Sheets	1	3	3		
General Ledger	0	0	1		
No Support	6	7	7		