

NOAA Fisheries Economics &
Sociocultural Program:
Data & Data Management Needs

How NOAA Fisheries

Economists Saved Civilization

Again.



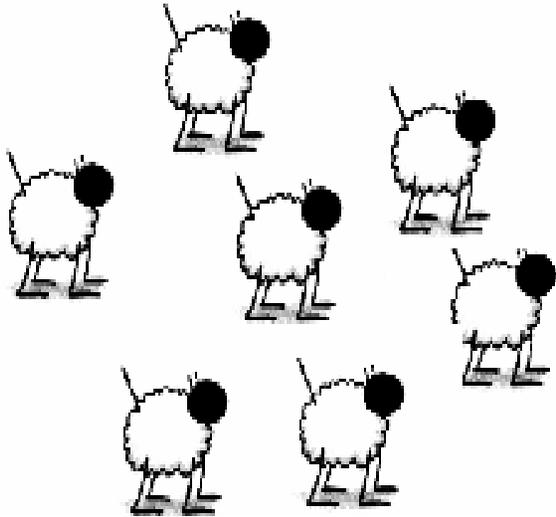
But this time with help from FIS.

Our story begins back in the early days of the new millenium....A dark time, when the world was divided into two groups.....

Data Users (the light side)

IT (the dark side,who had yet to embrace the prime directive – DO NO HARM TO DATA USERS)

(IT view of) Data Users



IT Staff



Data Manager



The **Data User** continued to dream of the day he could cast off his ball & chain of cleaning and manipulating data and achieve his true self as a

RESEARCHER.

And then, *miraculously*, FIS emerged out of this darkness.....

And so was born



AND

Logbook Economic Data
Collection & Validation

SEFSC
Southeast Fisheries Science Center





NEFSC WEB BASED QUERY TOOL

Fishing Vessel Cost Data



Welcome akitts !

This web query tool enables you to generate detailed cost data reports. The query tool combines fishing vessel cost data collected through the Northeast Fisheries Observer Program linked with data from the commercial seafood dealer and vessel permit databases.

Last Data Update : 22-MAR-2007

Detail Data Report

View raw data from the Observer Database System, linked with data from the commercial seafood dealer and vessel permit databases. Data may be selected by such factors as gear, bottom trawl mesh size, vessel size, time period, state landed, species landed category or target species category.

Useful Links :

1. [Description](#) of database and web query tool.
2. Cost Data Collection [FAQ](#)
3. Observer program background [information](#) and observer program [manual](#).
4. [Browser Configuration Information](#).
5. [NEFSC](#) home page.

For further information or comments, please contact :

[Barbara Rountree](#) or [Drew Kitts](#)



Welcome !

Data Last Updated: 14-FEB-2007

This web query tool provides access to summarized fishing vessel cost data collected through the Northeast Fisheries Science Center Observer Program, linked with data from the commercial seafood dealer and vessel permit databases. Summary reports include averages, standard deviations, and number of observations used.

Report Type:	
Statistic Type:	
Begin Year:	(format: YYYY)
End Year:	(format: YYYY)
State Landed:	
Vessel Size:	
Gear Code:	

Create Excel File

For further information or comments, please contact :

Fishing Vessel Operating Cost Data Query

Last Data Update: 22-MAR-2007

This page is for defining selection criteria. By default, all records within each group are chosen. To limit a query, select one or more items within a group. To select adjacent items in a portion of the list, anchor the beginning of the selection with a left mouse click. Then hold the shift key and left click the end of the selection and all items in between will be selected. To select non-adjacent items, hold the Ctrl key while selecting items.

Gear	Vessel Size	Caught Species Category	Target Species Category
<p>All Gears</p> <p><i>Bottom Otter Trawl</i></p> <p>All Bottom Otter Trawls</p> <p>050 - TRAWL,OTTER,BOTTOM,FISH</p> <p>052 - TRAWL,OTTER,BOTTOM,SCALLOP</p> <p>058 - TRAWL,OTTER,BOTTOM,SHRIMP</p> <p><i>Gillnet</i></p> <p>All Gillnets</p> <p>100 - GILL NET, FIXED OR ANCHORED,SINK, OTHER/INK SPECIES</p> <p>105 - GILL NET, ANCHORED-FLOATING, FISH</p> <p>116 - GILL NET, DRIFT-FLOATING, FISH</p> <p>117 - GILL NET, DRIFT-SINK, FISH</p> <p><i>Other</i></p> <p>010 - LONGLINE, BOTTOM</p>	<p>All Vessel Sizes</p> <p>Small (under 40 feet)</p> <p>Medium (40 to 80 feet)</p> <p>Time Period</p> <p>From Year: <input type="text" value="2001"/></p> <p>Month: <input type="text" value="January"/></p> <p>To Year: <input type="text" value="2001"/></p> <p>Month: <input type="text" value="January"/></p>	<p>All Caught Species</p> <p>Black Sea Bass</p> <p>Bluefish</p> <p>Butterfish</p> <p>Dogfish</p> <p>Fluke</p> <p>Groundfish, Lg Mesh (Flat)</p> <p>Groundfish, Lg Mesh (Round)</p> <p>Groundfish, Small Mesh</p> <p>Herring</p> <p>Highly Migratory</p> <p>Lobster</p> <p>Mackerel</p> <p>Menhaden</p> <p>Monkfish</p>	<p>All Target Species</p> <p>Black Sea Bass</p> <p>Bluefish</p> <p>Butterfish</p> <p>Dogfish</p> <p>Fluke</p> <p>Groundfish, Lg Mesh (Round)</p> <p>Groundfish, Lg Mesh (Flat)</p> <p>Groundfish, Small Mesh</p> <p>Herring</p> <p>Highly Migratory</p> <p>Lobster</p> <p>Mackerel</p> <p>Menhaden</p> <p>Monkfish</p>
<p>Bottom Otter Trawl Mesh Size</p> <p>All Bottom Otter Trawl Mesh Sizes</p> <p><= 3" mesh</p> <p>> 3" to 6" mesh</p>	<p>State Landed</p> <p>All States</p> <p>Connecticut</p> <p>Delaware</p> <p>Maine</p> <p>Maryland</p> <p>Massachusetts</p>	<p>NOTE: Species not listed have no observer data available.</p>	<p>View Support Tables</p> <p>Gears</p> <p>FIS Query Species Group</p> <p>Variable Definitions</p> <p>Ports</p>

Reset Query

Submit Query

Select Trip Level Variables

Home

Fishing Vessel Operating Cost Data Web Query

Trip Level Information

This page is for defining output variables for the database query. By default, all variables (all trip information, for example) will be returned if all boxes within a group are left un-checked. To limit query output, check one or more boxes within a group. Once boxes are checked within a group, only those variables associated with the checked boxes will be displayed. All unchecked boxes within the group will not be displayed in the query output.

Vessel and Trip Information No Vessel and Trip Information

<input type="checkbox"/> LINK1 ¹	<input type="checkbox"/> STATE ¹	<input type="checkbox"/> DATESAIL ¹	<input type="checkbox"/> CREW ¹
<input type="checkbox"/> PORT ¹	<input type="checkbox"/> TIMESAIL ¹	<input type="checkbox"/> TRPCOMMENTS ¹	
<input type="checkbox"/> HULLNUM1 ¹	<input type="checkbox"/> TMPHPORT ¹	<input type="checkbox"/> DATELAND ¹	<input type="checkbox"/> TRGCOMMENTS ²
<input type="checkbox"/> HULLNUM2 ¹	<input type="checkbox"/> STEAMTIM ¹	<input type="checkbox"/> TIMELAND ¹	<input type="checkbox"/> TIMELOST ¹
<input type="checkbox"/> XTRIPDUR ¹	<input type="checkbox"/> ATRIPDUR ¹	<input type="checkbox"/> LATHBEG ³	<input type="checkbox"/> LONHBEG ³
<input type="checkbox"/> AREA ³			

Input Quantities and Costs No Input Quantities and Costs

<input type="checkbox"/> ICETONS ¹	<input type="checkbox"/> FUEL GAL ¹	<input type="checkbox"/> DAMAGCOST ¹	<input type="checkbox"/> WATERCOST ¹
<input type="checkbox"/> ICEPRICE ¹	<input type="checkbox"/> FUELPRICE ¹	<input type="checkbox"/> SUPPLYCOST ¹	<input type="checkbox"/> OILCOST ¹
<input type="checkbox"/> FOODCOST ¹	<input type="checkbox"/> BAITCOST ¹		

Gear Information No Gear Information

<input type="checkbox"/> NEGEAR ²	<input type="checkbox"/> NONBOARD ²	<input type="checkbox"/> NSOAKING ²	<input type="checkbox"/> MESH SIZE ⁴
<input type="checkbox"/> GEARCAT ¹	<input type="checkbox"/> CAPTYRS ²		

Target Species No Target Species

<input type="checkbox"/> TARGSPEC1 ²	<input type="checkbox"/> TARGSPEC3 ²	<input type="checkbox"/> TARGSPEC4 ²	<input type="checkbox"/> TARGSPEC5 ²
<input type="checkbox"/> TARGSPEC2 ²			

Fishing Vessel Operating Cost Data Web Query

Vessel Level Information

This page is for defining output variables for the database query. By default, all variables (all annual costs, for example) will be returned if all boxes within a group are left un-checked. To limit query output, check one or more boxes within a group. Once boxes are checked within a group, only those variables associated with the checked boxes will be displayed. All unchecked boxes within the group will not be displayed in the query output.

Trip Linking Information No Trip Linking Information

<input type="checkbox"/> LINK1 ¹	<input type="checkbox"/> HULLNUM1 ¹	<input type="checkbox"/> YEAR ¹	<input type="checkbox"/> MONTH ¹
<input type="checkbox"/> PROGRAM ¹			

Annual Costs No Annual Costs

<input type="checkbox"/> INSHULL ¹	<input type="checkbox"/> FSHGRMAINT ¹	<input type="checkbox"/> OTHERMAINT ¹	<input type="checkbox"/> PROCREPL ¹
<input type="checkbox"/> INSPI ¹	<input type="checkbox"/> DCKGRMAINT ¹	<input type="checkbox"/> ENGREPL ¹	<input type="checkbox"/> ELECTREPL ¹
<input type="checkbox"/> INSCOMBINED ¹	<input type="checkbox"/> PROCMAINT ¹	<input type="checkbox"/> FSHGRREPL ¹	<input type="checkbox"/> OTHERREPL ¹
<input type="checkbox"/> ENGMMAINT ¹	<input type="checkbox"/> ELECTMAINT ¹	<input type="checkbox"/> DCKGRREPL ¹	

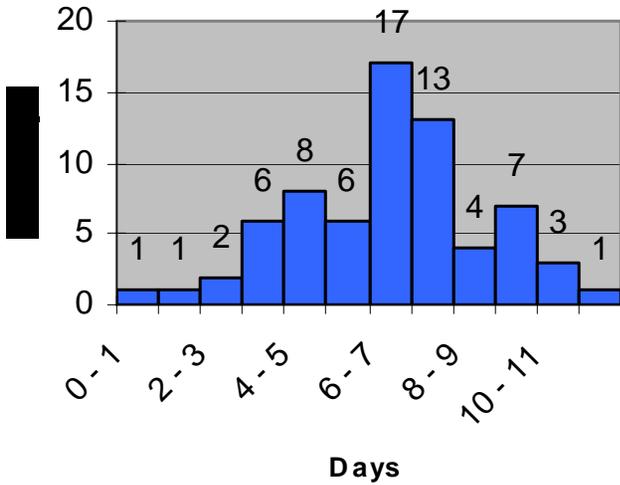
Vessel Information and Characteristics No Vessel Information and Characteristics

<input type="checkbox"/> CORP ¹	<input type="checkbox"/> VES_NAME ²	<input type="checkbox"/> HPORT ²	<input type="checkbox"/> VHP ²
<input type="checkbox"/> OWNTYPE ¹	<input type="checkbox"/> HOLD ²	<input type="checkbox"/> HPST ²	<input type="checkbox"/> BLT ²
<input type="checkbox"/> STRT1 ²	<input type="checkbox"/> ENG1YR ¹	<input type="checkbox"/> PPORT ²	<input type="checkbox"/> HULL_ID ²
<input type="checkbox"/> STRT2 ²	<input type="checkbox"/> ENG1HSPR ¹	<input type="checkbox"/> PPST ²	<input type="checkbox"/> TOC ²
<input type="checkbox"/> CITY ²	<input type="checkbox"/> ENG2EXIST ¹	<input type="checkbox"/> LEN ²	<input type="checkbox"/> TOP ²
<input type="checkbox"/> ST ²	<input type="checkbox"/> ENG2YR ¹	<input type="checkbox"/> NPASS ²	<input type="checkbox"/> NUM_TRAPS ²
<input type="checkbox"/> ZIP1 ²	<input type="checkbox"/> ENG2HSPR ¹	<input type="checkbox"/> GTONS ²	<input type="checkbox"/> PHP ²
<input type="checkbox"/> ZIP2 ²	<input type="checkbox"/> TRECMENTS ¹	<input type="checkbox"/> NTONS ²	

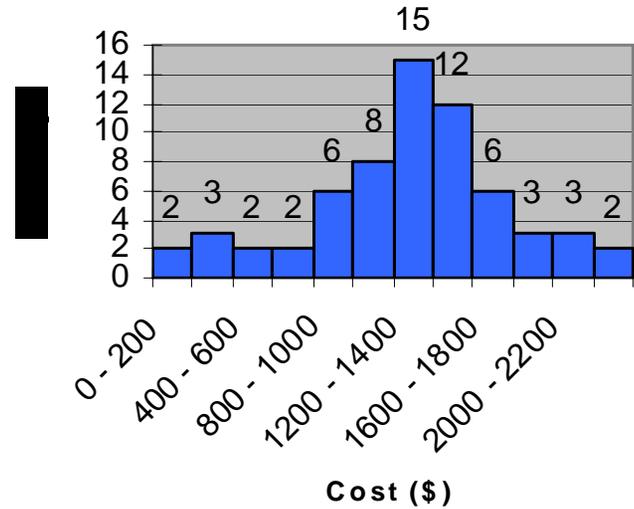
Permit Linking Information No Permit Linking Information

<input type="checkbox"/> AP_YEAR ²	<input type="checkbox"/> AP_NUM ²	<input type="checkbox"/> VP_NUM ²
-----------------------------------------------	----------------------------------------------	----------------------------------------------

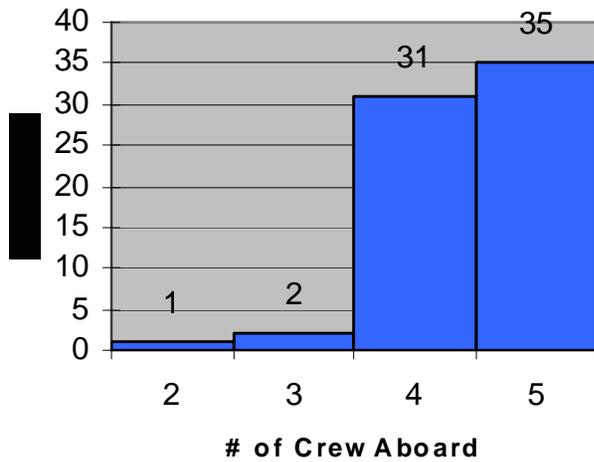
Trip Duration



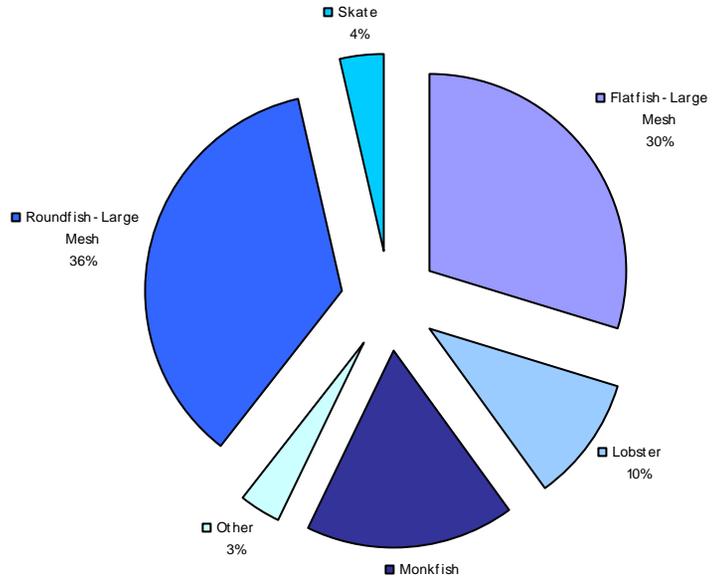
Cost of Fuel per Day



Crew Size



Value of Catch by Species



Fishery Economic Information Collection

Dear EDC Admin,

Welcome to the National Oceanic and Atmospheric Administration fishery economic expenditure information collection. Thank you for participating in our annual expenditures statistics program.

To provide annual economic information, please choose the appropriate fishery from the menu on the right.

If you have general questions or comments about the Economic Data Collection Guidelines, please contact us by email at, edc.support@noaa.gov

Paperwork Reduction Act: Public reporting burden for the trip expense and payment annual summary is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining data needed, and completed & reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: National Marine Fisheries Service, F/SF1, 1315 East West Highway, Silver Spring MD 20910. Providing the requested information in the trip summary is mandatory for managing the Atlantic tuna fisheries in accordance with the Atlantic Tunas Convention Act (16 U.S.C. 971 et seq.) and the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. 1801 et seq.). In accordance with NOAA Administrative Order 216-100, it is agency policy not to release confidential information, other than in aggregate form. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number. This is an approved information collection under OMB #0648-0371 and expires June 30, 2005.

Note: All data provided are confidential and will be used to determine the effects of existing and proposed management policies on fishery participants. Consistent and accurate reporting is critical for achieving the benefits of conservation and management of fisheries.

ADMINISTRATION Logout

- > Change Password
- > View Economic Reports/Charts
- > Export Data to CSV File

LOGBOOKS IN INTERIM AREA

- > Edit Validation Thresholds
- > View/Run Validation Process
- > Browse Validation Results

ANNUAL FORMS

- > Edit Validation Thresholds
- > Fill Out SG Annual Form
- > Browse Completed Forms
- > Browse Permitted Vessels

- e
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- Dealer Guides
- oyee Corner
- puter Services
- ronmental, ty & Health
- Quality Act
- AR
- ications
- ul Links
- Map

Batch Validation

User: **EDC Admin** [Main Menu](#) [Logout](#)

Snapper-Grouper Logbooks (INTERIM DATABASE)

Validation Summary

Validation Status	Quantity	Examine Records	Move to Master Database
Number of Logbooks with WARNINGS	11466		Move
Number of Logbooks with ERRORS	2		Move
Logbooks Reviewed/Accepted with WARNINGS	26168		Move
Logbooks placed in CALL BACK List	4		Move
TOTAL Warnings + Errors + Accepted + Call Back	37640		Move

Batch Process

Last Run Date	Validation Options	Execution
July 27, 2007 05:11 pm Outcome: SUCCEEDED Duration: +000 00:17:37	<input type="checkbox"/> Rebuild distribution clusters <input type="checkbox"/> Revalidate previously accepted warnings	Run Validation

History: [Show](#) [Hide](#)

Economic Data Validation Results

User: **EDC Admin**

[Main Menu](#)

[Validation](#)

[Logout](#)

Search:



Order by:

Logbook Key



Ascending



Include:

Warnings



Messages/Page: 50



Last Run: 27-Jul-2007 04:55:19 PM (37640 logbooks with validation messages)

Batch Nbr	Schedule Nbr	Logbook Key	Vessel ID	Value	Error Message	Action
F265A	580247	1453711	654897	2100	The bait weight in pounds is outside of min % for Cluster Histogram (State:11 / Gear:676)	Edit
				250	Fuel Quantity (gallons) out of range (999998 to 999999)	
				1060.00	Trip bait cost is outside of min % for Cluster Histogram (State:11 / Gear:676)	
F265A	580547	1454011	534198	403	Fuel Quantity (gallons) out of range (999998 to 999999)	Edit
				150	Bait count is outside of historical pattern for vessel for 2005	
				252.00	Cost of ice is outside of min % for Cluster Histogram (State:11 / Gear:676)	
F265A	580548	1454012	534198	540	Fuel Quantity (gallons) out of range (999998 to 999999)	Edit
				01.46	Price per gallon is outside of min % for Cluster Histogram (State:11 / Gear:676)	
				788.00	Fuel cost for trip is outside of min % for Cluster Histogram (State:11 / Gear:676)	
				1500	The bait weight in pounds is outside of min % for Cluster Histogram (State:11 / Gear:676)	
				525.00	Trip bait cost is outside of min % for Cluster Histogram (State:11 / Gear:676)	
				297.00	Cost of ice is outside of min % for Cluster Histogram (State:11 / Gear:676)	
889.00	Other trip expenses is outside of min % for Cluster Histogram (State:11 / Gear:676)					
F267A	582020	1456383	653701	800	Fuel Quantity (gallons) out of range (999998 to 999999)	Edit

Validation Rules Template

User: EDC Admin

Main Menu
 Logout

Trip (Snapper-Grouper) Logbook Batch

Gallons of fuel used this trip	Display Order: 1
Threshold Values	
Min: 999997 Max: 999999 Error Message: Fuel Quantity (gallons) out of range (999998 to 999999)	<input checked="" type="checkbox"/> Enabled?
Vessel History	
Minimum Number of Years in History: 5 Standard Deviation Coefficient: 1.5	<input checked="" type="checkbox"/> Enabled?
Cluster Validation	
Number of Distribution Points: 10 Threshold Percentage: 10	<input checked="" type="checkbox"/> Enabled?
Price per gallon	Display Order: 2
Threshold Values	
Min: 0 Max: 999999 Error Message: Fuel gallon price appears out of range (0 to 9,999)	<input checked="" type="checkbox"/> Enabled?
Vessel History	
Minimum Number of Years in History: 5 Standard Deviation Coefficient: 1.5	<input checked="" type="checkbox"/> Enabled?
Cluster Validation	
Number of Distribution Points: 10 Threshold Percentage: 10	<input checked="" type="checkbox"/> Enabled?
Fuel cost for trip	Display Order: 3
Threshold Values	
Min: 0 Max: 999999 Error Message: Fuel cost appears out of range (0 to 350)	<input checked="" type="checkbox"/> Enabled?

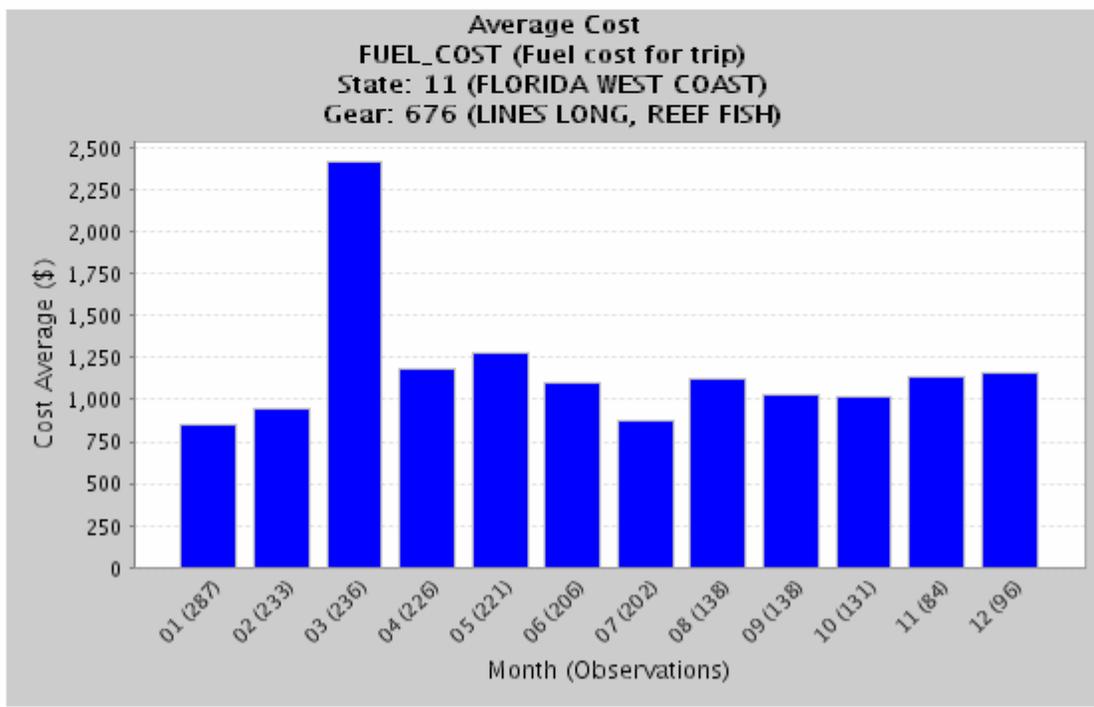
User: **EDC Admin**

[Main Menu](#) [Logout](#)

Summary Statistics

Cost Element: Fuel cost for trip	State: FLORIDA WEST COAST	Gear: LINES LONG, REEF FISH	Type: All Years (Seasonal)
--------------------------------------------	-------------------------------------	---------------------------------------	--------------------------------------

Submit



What did it cost in the NE?

Data Management

FY04 - \$22K
(FIS Funds)

FY04 - \$13K
(Econ funds)

FY07 - \$15K
(Econ funds)

Economic Data

FY01–FY07: Trip Data: \$650K

FY04-FY05: Fixed Cost

Sampling Scheme: \$125K

FY06-FY07: Fixed Cost \$ 65K
Data (Permit Add-on)

FY07: Cost Profiles: \$ 30K

Why did it make sense?

20:1 Data: Data Management Investment Ratio that resulted in tremendous FTE time savings

What did it cost in the SE?

Data Management

FY04 - \$40K
(FIS Funds)

FY05 - \$111K
(Econ funds)

Economic Data

FY01–FY07: Logbook Add-ons
Trip & Annual Data: \$324K

Why did it make sense?

2:1 Data: Data Management Investment Ratio

“Cheap” data collection vehicle but far more prone to errors than observer-collected data – need these checks for IQA reasons

How is this important to the NMFS Economics Program

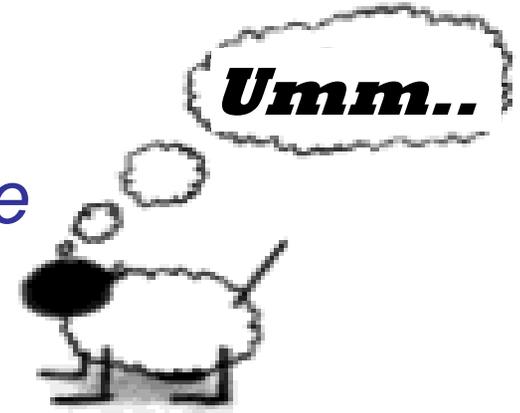
- PI & SW have economic add-ons to their observer programs
- NW: series of economic surveys that have been standardized across fleets
- Gulf Shrimp surveys: (upcoming) offshore and inshore surveys have been standardized

And so ends the era of strictly “Data Users,” who were burdened by generations of feeling

and manipulated.

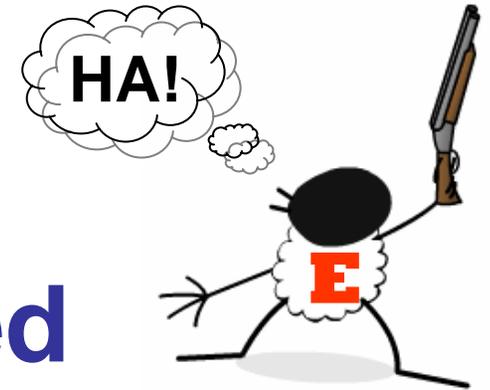


inadequate



And the age of the “Researcher,” who is

empowered



and confident,

was born.

