

CA - PMM

Project Name: Electronic Commercial Logbooks for Marine Region
OCIO Project #:
Department: CA Department of Fish and Game
Revision Date: 10/1/2010

Concept Statement

Description

Brief description of the proposed project:

To provide a web site application with password access to commercial logbook holders for data entry of Commercial Logbook data to streamline and improve the efficiency of data entry so DFG biologist will be able to meet more of the MLPA and MLMA requirements. In addition, having timely access to data on the fisheries will result in improved management of marine resources, more accurate and timely reporting of fishing impacts, and greater responsiveness to our partners in managing healthy marine ecosystems.

Need Statement

High Level Functional Requirements:

The electronic data entry process needs to have 1) an electronic version of a logbook on Fish and Game's web site in an easy to recognize data entry front end that looks like the paper version of the commercial logbook. 2) The fisher would then be able to key in the information in each of the fields on the screen and when complete hit the submit button and receive a confirmation code for this electronic data entry submission which enforcement would be able to access and double check. 3) The data would then be ready for QAQC by the fisheries statistical unit staff (or other marine region staff) who would control inclusion of the newly submitted data into the database. 4) ITB would maintain the system of data entry and the database giving access to (serve) those in the marine region and department but not the public as well as backing up the data on servers.

What is Driving This Need?

The main drivers for the need for this electronic logbook data project is three fold 1) we need to streamline and improve our efficiency with respect to data entry as our biologists are now required to do more with the Marine Life Management Act (MLMA sustainable fisheries) and the Marine Life Protection Act (MLPA spatial management). Both these regulatory Acts are now driving our work and they require detailed knowledge of catch abundance (as related to sustainability), species identification (threatened and non-threatened species), and location (spatial management), 2) under recent severe budget constraints we no longer have the resources to continue to hand enter data in this modern age of technological advances, 3) we (Marine Region and our partners PSMFC) have funding from the Ocean Protection Council which we can leverage to help us develop some of the business rules for the development of the electronic versions of the logbooks.

Risk to the Organization if This Work is Not Done:

Without electronic logbooks the department will continue to fall behind in data entry for commercial logbooks of marine resources. This is unacceptable given our legislative responsibilities outlined in the MLMA and MLPA. With more and more responsibilities given to the marine region yet few resources for additional full time biologists we need to have and electronic option for the public to submit required logbook data including catch and effort information. Many of our fisheries require timely assessments of catch since if catch declines this may be a precursor to population decline and unsustainable fisheries. Without timely data managers can not track the health of marine resources to ensure our mandate of sustainability.

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):

Fisheries biologists will not longer be hand entering logbook data sheets into databases as these data will flow into a data base. Data entry rules will limit the entry of spurious data such as the year 1909 into the database due to a typo. The databases will be maintained under the control of ITB with proper backups limiting the risk to the data of a single system crashing and losing the data. Enforcement will be more easily able to access the data and make cases against those in non-compliance.

Other Intangible Benefits:

The benefits of having electronic logbooks will be felt by managers in Fish and Game having timely access to data on the fisheries that they manage. This will translate into the benefit of improved management of marine resources, more accurate and timely reporting of fishing impacts, greater responsiveness to our partners in managing healthy marine ecosystems.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):

Revenues may be generated by Marine Region being more efficient at defining the sustainability of marine resources. Sustainable fisheries bring in more funding than depleted fisheries. Revenues may be enhanced by being better able to partner with outside groups to attract funding for sustainable fisheries research and MPA research. Revenue may be generated by enforcement being better able to fine fishers who are not compliant with turning in required commercial logs.

Cost Savings (describe how cost will be reduced):

Cost savings will be gleaned from reduced staff time going toward data entry which can be done more efficiently with technology. Cost savings will be gained by having ITB work to backup and serve the databases rather than Fisheries Biologists trying to make backups on external hard drives of the databases. Printing, mailing and storage costs will also be reduced.

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Cost Avoidance (describe the cost and how avoided):
 Costs for data entry will be avoided in the future with the implementation of this data intake process that ITB will create.

Risk Avoidance (describe the risk and how avoided):
 Major risks including the loss of the data can be avoided by having them housed and served by professional database managers and IT people with in the department.

Improved Services:
 Services to the public both fishers with data to report and those requesting reports of summarized data from research groups, partner agencies and fisheries managers will be greatly improved.

Consistency

"No" Responses 	Rationale	Action Required
Enterprise Architecture		
Business Plan		
Strategic Plan		

Impact to Other Agencies

Nature of Impact to Other Agencies

Agency: Pacific Fishery Management Council
Describe the nature of the impact:
 Better access to critical fisheries data.

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Agency: NOAA Fisheries

Describe the nature of the impact:

Better access to critical fisheries data.

Agency: MPA partner groups such as Ocean Protection Council, Monitoring Enterprise

Describe the nature of the impact:

Better access to critical fisheries data.

Agency:

Describe the nature of the impact:

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Solution Alternatives

Alternative 1:

Provide a web site application to the public to allow for data entry of Commercial Logbook data. The data can be entered directly into a holding area in landings database, or entered into an area where we can download it directly into our landings database daily.

Technical Considerations for Alternative 1:

DFG has access to approximately \$100,000 in grant funds provided by the Ocean Protection Council (OPC). Although a completed project will require at least this amount, there is doubt that the entire amount may not be available to us because State has not payed invoices to the entity contracted to provide staff to do the work (Pacific State Marine Fisheries Commission).

ROM Cost: 90000 to 120000

Note: high end of range must not exceed 200% of low end of range

Alternative 2:

Provide a computer application to commercial logbook holders that can be loaded on their desktop PC's or laptop computers. Allow for data entry of Logbook data into this program and the capability to upload these data to an approved DFG site or directly into a holding area in our landings database.

Technical Considerations for Alternative 2:

ROM Cost: 75000 to 100000

Note: high end of range must not exceed 200% of low end of range

Alternative 3:

Provide a web site application with an Password access to the commercial logbook holders for data entry of Commercial Logbook data. The data can be

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entered directly into a holding area in landings database, or entered into an area where we can download it directly into our landings database daily.

Technical Considerations for Alternative 3:

ROM Cost: 90000 to 120000

Note: high end of range must not exceed 200% of low end of range

Recommendation

Comparison:

Alternative 1	ROM Cost			Risk
Provide a web site application to the public	90000	-	120000	
Alternative 2	ROM Cost			Risk
Provide a computer application to	75000	-	100000	
Alternative 3	ROM Cost			Risk
	90000	-	120000	

Conclusions:

1	
2	
3	
4	

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Recommendation:

The recommended solution is Option 1.

Project Approach *(if known)*

System Complexity:		System Business Hours: <i>(e.g., 24x7, 9am-5pm)</i> :			
Architecture	<input type="checkbox"/> Mainframe	<input checked="" type="checkbox"/> Client Server	<input checked="" type="checkbox"/> Web Based	Num. of New Databases: _____	
Technology	<input type="checkbox"/> New	<input type="checkbox"/> New to Staff	<input type="checkbox"/> In-House Experience	Interfaces: External	
Implementation	<input type="checkbox"/> Central Site	<input type="checkbox"/> Phased Roll-out	Num. of Sites: _____		
M & O Support	<input type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input type="checkbox"/> Project	<input checked="" type="checkbox"/> In House	
Procurement Approach:				Number of Procurements: _____	
Open Procurement? No		Delegated Procurement? Yes			
Scope of Contract	<input checked="" type="checkbox"/> Development	<input checked="" type="checkbox"/> Implementation	<input type="checkbox"/> M & O	<input type="checkbox"/> Other: _____	
Anticipated Length of Contract:		Years /		extensions for _____ years	