Pathway to Self-Funding A Case Study on the California Commercial Spiny Lobster Fishery Lauren Hess, Phillip Johnson, Theresa Karasek, Samantha Port-Minner, Uthra Radhakrishnan

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Pathway to Self-Funding

The pathway combines the results of our group project with the additional steps necessary to

As of March 2009, Assembly Bill (AB) 571, which will

implement the Lobster Stamp, has been referred to

the Committee on Water. Parks and Wildlife for

This project shows that implementing a self-funding

mechanism in the California commercial spiny lobster

The Cost Benefit Model demonstrates not only that

the fishery could self-fund MSC Certification, but that

The Commercial Fishery Survey results suggest that the

majority of active fishermen support the Lobster

Stamp and use of the collected funds for MSC

The Legal Analysis presents existing legislation on

which to model the stamp language and establishes

the legal and political feasibility of Lobster Stamp

While the pathway to the Lobster Stamp includes

details specific to the California commercial spiny

lobster fishery, the general procedure we present

here is applicable to similar fisheries wishing to

this project could lead to net profits for the fishery.

fishery is economically, socially, and politically feasible.

legislative review.

Certification

legislation.

develop self-funding.

Conclusion

transform the lobster stamp into a political reality.

Research Ouestions

- 1. Can the California commercial spiny lobster fishery profitably self-fund Marine Stewardship Council Sustainability Certification?
- 2. Is self-funding supported by the California commercial spiny lobster fishery?
- 3. Can successful self-funding legislation be developed?

Methods



To answer our three research questions, we developed a cost benefit model, sent a survey to every commercial lobster permit holder, and performed a legal analysis on the feasibility of lobster stamp legislation.

Background

In the summer of 2008, the California Lobster and Trap Fishermen's Association (CLTFA) voted to explore the potential for self-funding California commercial spiny lobster fishery projects through the Lobster Stamp. The Lobster Stamp is a self-funding mechanism to collect money from California spiny lobster commercial fishermen to use for projects of interest and utility to the fishery.

CLTFA also discussed pursuing MSC Sustainability Certification. MSC is the world's leading certification and eco-labeling program for sustainable seafood, It is an independent nongovernmental organization that rewards sustainable fishing practices and management.

Before pursuing self-funding, CLTFA needed to determine if the entire fishery would be willing to participate in self-funding and whether self-funding fishery projects could be economically profitable and legally feasible.

We sought to calculate the political and social feasibility of creating the Lobster Stamp and the economic value of using the initial funds to pursue Marine Stewardship Council (MSC) Sustainability Certification.

We created a cost benefit model to determine whether the California commercial spiny lobster fishery could profitably self-fund MSC Cost Benefit Model We created a cost benefit model to determine whether the California commercial spiny lobster fishery could profitably self-fund MSC Certification. The cost benefit model evaluated the net benefits of MSC Certification per commercial fishing permit under three selffunding collection mechanisms: a flat fee of \$300, a price per pound fee, and a combination of a smaller flat fee and price per pound fee.

Cost Evaluation We calculated the full cost of MSC Certification as the Research Costs sum of costs of initial missing data collection and organization (research costs), pre-assessment, full Re-assessment \$50,000 every 5 years assessment, re-assessment five years after certification, \$10,000/year Post-certification Annual Audits and ten years of annual audits. Total Certification Costs \$320,000 over 10 years

Benefit Evaluation

We found four classes of benefits of MSC Certification:

Market Benefits

- Price Premium of 5% 10% Entry to new markets
- Management Benefits
- · Increased yields from better
- management

Social Benefits

- Sense of pride being a participant in a fishery that has been certified as sustainable by the world's leading certification and eco-labeling seafood program.
- Relieve some top-down regulatory pressure through external validation of the fishery's sustainability



Cost Benefit Model

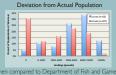
Each collection mechanism generates \$648,000 of Lobster Stamp revenue over 10 years. Our model utilized three potential collection mechanisms:

- A \$0.095 per pound fee
 A flat fee of \$50 plus \$0.08 per r

	Α	В	С	D	E	F	G
Price Premium	1%	5%	5%	5%	10%	10%	10%
Price Premium Decrease per Year	0%	10%	5%	10%	5%	3%	0%
Yield Increase from Improved Management	0%	0%	1%	1%	2%	2%	3%
Cost of Certification	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000
Benefits of Certification	\$770,000	\$2,507,588	\$3,890,623	\$5,835,328	\$7,843,040	\$8,414,236	\$10,241,000
Net Benefits of Certification	\$395,000	\$2,132,588	\$3,515,623	\$5,460,328	\$7,468,040	\$8,039,236	\$9,866,600
Net Benefits per License (10 years)	\$1,829	\$9,873	\$16,276	\$25,279	\$34,574	\$37,219	\$45,676

• The fishery can profitably self-fund MSC certification. • The net benefits of certification ranged from \$1,829 to \$45,676 per fishermen after ten years.

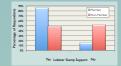
After we found that the fishery could profitably self-fund MSC Certification, we wanted to see if the fishery Commercial Fishermen Survey would support self-funding. The mail survey assessed support for self-funding through a Lobster Stamp, collection mechanism preferences, fishery project priorities, and willingness to participate in collaborative research.



When compared to Department of Fish and Game (DFG) 2007-08 data, we found our survey respondents were skewed towards active fishermen (above) and towards transferable permit holders (below). Therefore, our results ect the attitudes of only the active fishing population







Lobster Stamp & CLTFA Membership Respondents who are CLTFA members were more likely to support the Lobster Stamp

(78%) were high.

Support for the lobster stamp

(65%) and MSC Certification

52% of active respondents preferred a \$300 flat

The majority of respondents

(58%) were willing to pay \$300



MSC Certification Support 78% of actively landing survey respondents support the fishery pursuing MSC



Kank	Fishery Priority				
- 1	Marine Stewardship Council Certification				
2	Permit Buyback				
3	Legal Advocate/Lobbyist				
4	Impacts of Recreational Lobster Fishery				
5	Marine Protected Area Monitoring				
Eichany Project Priorities					

Summary of respondents' self-funded fishery project priorities. Respondents' high priority for MSC Certification is

 The majority of respondents (52%) supported the flat fee payment method.

Once we determined through our cost benefit model that the California commercial spiny lobster fishery could profitably self-fund MSC Certification and Legal Analysis found from our survey results that fishery members support self-funding, we next sought to explore the legal viability of the commercial Lobster Stamp. To determine the potential for successful self-funding legislation, we did independent research and contacted fishery leaders, DFG, NGOs and lawyers.

for the lobster stamp.

Self-Funded Fisheries

Fishery	Fee Structure	Management	Collection			
California Salmon Council		Advisory Committee	Stamp purchased from the California Department of Fish Game with licens			
California Recreational Abalone Advisory Committee	Flat Fee					
California Sea Urchin Commission		Commission	Paid by processor to commission			
Bristol Bay Regional Seafood Development Association	Set Percentage	Board of	Collected by State from fish tickets			
Copper River/Prince William Sound		Directors	Collected by state from fish tickets			

commercial lobster permit make legally binding spending decisions

Legislatively establish activities eligible for funding

Successful Lobster Stamp

Lobster Stamp Recommendations

Acknowledgements

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Respondents were skewed towards

actively landing fishermen and

transferable permit holders.

Mandatory burchase wit Establish that stamp will Minimize overhead charge from collecting agency need periodic renewal Establish committee to Specify amount of mone collected from each permit holder

 Successful self-funding legislation can be developed
 All successful self-funded fisheries have a managing
 DFG reports that a flat fee would incur for the California commercial spiny lobster fishery. body whose funding decisions are legally binding.

lower administrative overhead costs.