
 PLANNING DEPARTMENT



 COUNTY OF SANTA CRUZ

GOVERNMENTAL CENTER

701 OCEAN STREET, ROOM 400, SANTA CRUZ, CALIFORNIA 95060
(831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123

July 20, 1999

Agenda: August 3, 1999

Board of Supervisors
 County of Santa Cruz
 701 Ocean Street
 Santa Cruz, California 95060

APPROVE EXPENDITURE OF \$8,300 FROM COUNTY FISH AND GAME
 COMMISSION BUDGET TO FUND VARIOUS PROJECTS.

Members of the Board:

Your Board approved a supplemental budget request by the Fish and Game Commission to re-budget \$9000 in funds that the Commission was unable to award in FY 1998-99 due to time constraints. The Commission has now completed its consideration of additional projects and has recommended approval for grant funding in the amount of \$8,300 for the following four projects:

1. The Pelagic Shark Research Foundation. \$1000.

This donation will be used for tagging and research of local shark populations.

2. CREEK program, Santa Cruz County Office of Education. \$1,000.

This donation will provide local teachers with curriculum materials and hands-on educational opportunities regarding local wildlife through "Project Wild" offered by the Department of Fish and Game. This material will then be included in science and social studies in grades K through 8th.

3. Monterey Bay Salmon and Trout Project. \$1,300.

This donation will be used to duplicate three sets off photographs and reports which document pinniped/salmonid interaction from the 1998/1999 fish trapping efforts from Scott Creek and the San Lorenzo River at Felton. These photos will be distributed to the National Marine Fisheries Service, and the U.S. Congress for review in conjunction with this years hearings on the status of the Marine Mammal Protection Act.

4. Fishermen's Alliance of California, \$5,000.

This grant is to complete the **third** year of study of pinniped/**salmonid** interactions in the Monterey Bay, and to complete a socio-economic study. The studies will be completed under the direction of the Moss Landing Marine Laboratories for submittal to the National Marine Fisheries Service, and the U.S. Congress for review in conjunction with this years hearings on the status of the Marine Mammal Protection Act.

It is, therefore, RECOMMENDED that your Board:

Approve the Fish and Game Advisory Commission's recommendations for donations and authorize the Auditor-Controller to disburse the funds.


 ALVIN D. JAMES
 Planning Director

RECOMMENDED:


 SUSAN A. MAURIELLO
 County Administrative Officer

Attachments:

1. Fish and Game Advisory Commission Minutes, 5/6/99 and 6/3/99.
2. Project Funding Requests.

FISH AND GAME
COMMISSION



COUNTY OF SANTA CRUZ

GOVERNMENTAL CENTER

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(831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123

FISH AND GAME ADVISORY COMMISSION

MINUTES

Santa Cruz County Governmental Center
Planning Department Conference Room
Santa Cruz, CA 95060

May 6, 1999
7:00 P.M.

1. CALL TO ORDER : 7:05 P.M.

2. ROLL CALL

A. Present: Smith, Murphy, North, Estrada, Lease, Peterson

Excused: Gallagher, Ritchey, Frediani

Absent: McCrary

3. GUESTS

Jennine DeWald CDFG, Jack Harrell MBSTP, Larry Wolf MBSTP, Russ Colwell FAOC

4. APPROVAL OF MINUTES

Minutes approved as written. All aye

5. ADDITIONS AND DELETIONS TO AGENDA

A. Commissioner Peterson expressed his thanks for the Department of Fish and Game ride-along which took place a few weeks ago. He requested that he write a letter thanking the Department of Fish and Game, and in particular Warden John Sutton. All Commissioners agreed.

6. OLD BUSINESS

A. Final review for the CREEK Project Wild Teacher Workshops. Commissioner Estrada made a motion to fund the project for the \$1000 requested, the funds to be used for teacher kits, registration fees, and meeting expenses only. Second by North. All aye.

B. The Pelagic Shark Research Foundation (PSRF) request for funding received the first review of their proposal to fund local shark research.. Commissioner Murphy noted that the PSRF has been responsible for the generation of a tremendous amount of scientific data. The final vote for the project will be in June.

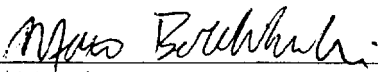
C. Fishermen's Alliance of California (FAOC) updated the Commission on the study they are conducting with the Moss Landing Marine Labs regarding sea lion interactions with salmonids and other local fisheries. Russ Colwell of FAOC noted that the Marine Mammal Protection Act (MMPA) will be up for review shortly, and they hoped to have their study completed for the Federal review of the Act. He also informed the Commission that FAOC was intending on completing a socio-economic study regarding sea lions, and asked that the Commission consider it an emergency item given the time constraint involved with review of the MMPA. A final vote will be taken in June.

7. NEW BUSINESS

A. Commissioner Lease stated that John Fisher and Jeannine DeWald of the Department of Fish and Game will be in Sanat Cruz to review the possible relocation of Tule Elk on the North Coast. Staff will provide map to aid in review.

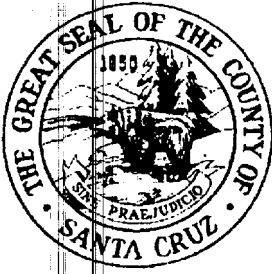
8. COMMISSIONERS REPORTS

9. ADJOURNMENT: 9:15 p.m.



MATT BALDZIKOWSKI
Administrative Staff
(831) 454-3165

FGM. |



County of Santa Cruz 543

FISH AND GAME ADVISORY COMMISSION

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 96060
(831) 4643165 FAX: (831) 464-2131 TDD: (831) 454-2123

Fish and Game Advisory Commission

MINUTES

Santa Cruz County Governmental Center
Planning Department Conference Room
Santa Cruz, CA 95060

June 3, 1999

1. **CALL TO ORDER** The meeting was called to order at 7:05 P.M.
2. **ROLL CALL** Present: Commissioners Smith, Murphy, North, Lease, Estrada, Ritchey
Excused: Commissioners Frediani, McCrary
Absent: Commissioners Peterson, Gallagher
3. **APPROVAL OF MINUTES** The minutes of the May 6, 1999, Commission minutes were approved with the addition to item no. 9 (Staff Reports) that M. Baldzikowski indicated that he had contacted the District Attorney's office too late to have a member of the DA's office attend the meeting.

4. **GUESTS**
Russ Colwell, Fishermans Alliance
Jack Harrell, Monterey Bay Salmon and Trout Project
Rich Hughett, Fishermans Alliance
Mike Weise, Moss Landing Marine Labs
Sean Van Sommeran, Pelagic Shark Research Foundation

5. **ORAL COMMUNICATIONS**

Commissioner Lease briefed the Commission on the preliminary findings of the Department of Fish and Game regarding the reintroduction of Tule elk to the North Coast. Despite the more than acceptable habitat conditions that would favor the placement of Tule elk in the County, DFG identified a number of serious constraints to the project, most notably the conflicts between the elk and vehicle traffic on Highway 1 and Empire Grade, and the political and social difficulties in managing the herd. Commissioner Lease indicated that he will pass on the formal report from the DFG when it is prepared.

The Monterey Bay Salmon and Trout Project Bar-B-Q is scheduled for June 12th at 1:00 pm at the Swanton Road facility, with all the fixin's.

A. Final review of the request from for **funding** a study of local shark populations. After a short presentation by S. Van Sommeran, Commissioner Lease moved approval of the request, seconded by Commissioner Murphy. Unanimously approved.

Commissioner Murphy recommended that the funding request from the Pelagic Shark Research Foundation be distributed to all prospective applicants for grants as a model of what kind of information and detail the Commission would like to see in future applications for funding. Agreed by all.

B. Final review of the request by the Fisherman's Alliance to fund a study of Sea lion and Harbor seal interactions with local **salmonid** fisheries. Commissioner North asked what this request was for. A letter from Commissioner Frediani is distributed to all.

R. Hughett of the Fisherman's Alliance stated that it was the other half of the grant request not funded by the Commission last time. He further stated that the Marine Mammal Protection Act is under review and that the studies (the only studies being prepared on the Pacific Coast) need to be completed prior to the hearings on the Act, scheduled for September/October 1999. He recounts stories of attacks on fishermen by Sea lions and passes around a picture of predation in southern California.

Mike Weise discusses details of study and needs. Russ Colwell discusses corollary study of economic impacts of predation, also to be prepared and presented at the hearings. R Hughett distributes charts depicting effects of predation.

Commissioner Lease expresses concern over the amount of the request relative to the amount of grant funds available for distribution by the Commission, but feels that the project funding should be granted to finish the project for submittal to the hearings on the Marine Mammal Protection Act. However, it should be made clear that this is probably the last funds available for this project.

Commissioner North agreed with Commissioner Lease's comments.

Commissioner Smith commended the project proponents for the good information.

Commissioner Murphy also agreed with Commissioner Lease that this should be completed, He also believed that the Board of Supervisors should be informed of the importance of the study and the Commission's stance regarding this issue.

Commissioner Ritchey was in support of the request, but wanted to receive notice of the hearings with enough lead time to get the Commission's recommendation heard, not after the fact.

Commissioner Lease moves approval of the request, seconded by Commissioner Murphy Approved unanimously.

The Commission requested that a draft Board of Supervisors Resolution be prepared for review and approval by the Commission in August that expresses the Countv's and the

Commission's concern over the impacts of Sea Lion and Harbor seal predation on the salmonid fishery and recommending the at appropriate amendments be made to the Marine Mammal Protection Act to address the issue.

7. NEW BUSINESS

A. Request for funding for photography submitted by Monterey Bay Salmon and Trout Project.

Jack Harrell presented the proposed grant and discussed purpose.

Commissioners discussed the project, including costs for the duplicating and film.

Commissioner Murphy moves to approve the grant request, seconded by Commissioner Ritchey. Approved unanimously.

8. PRESENTATIONS

Rich Hughett mentions Ventura County's staffing of their Fish and Game Commission includes a full time District Attorney.

9. STAFF REPORTS/ANNOUNCEMENTS None

10. ADJOURNMENT The meeting was adjourned at 8:20 p.m.

Note: Next meeting is August 5, 1999

Submitted by M. Deming

I. Name of Group/Individual:

The Pelagic Shark Research Foundation. (PSRF) A Local Non-profit research, education, and environmental advocacy group. Founded in 1990.

[I. Amount of Funding requested: \$1000.00

III. Name, Address and Phone Numbers of Contact Person:

Executive Director/CEO Sean R. Van Sommeran.

PSRF, 333 Lake Ave Ste H, S.C. Maritime Center, S.C. Yacht Harbor, Santa Cruz Ca 95062.

Tele# (408)459-9346. E-mail: psrf@pelagic.org Web Site: WWW.pelagic.org

[V. Description of Proposed Project: Since the PSRF was founded in 1990 its principle and primary project has been the collection, sampling and tagging of the highly migratory species of pelagic sharks that inhabit the Monterey Bay on a seasonal basis. Every Spring and summer PSRF student volunteers take to the waters of the outer bay and catch, tag and release Blue, Mako and Thresher sharks in cooperation with the CDFG shark tag and release program which is based in Long Beach CA. Researchers and Anglers working with PSRF have placed in the top 5 shark taggers in the State since 1990. The Data generated through such studies help scientists and management officials to better understand and manage this important resource. In 1993 a California tagged blue shark was recovered off of Midway Island aboard a Japanese long-lining vessel. The shark had been tagged and released off of California in 1990. Such Data is crucial to understanding the movements, range and seasonality of this poorly understood species. Pelagic sharks are heavily impacted in the drift gill-net and long-line fisheries. In addition to tagging pelagic sharks with CDFG tags, volunteers with the project attach transmitters and other types of tags as well as collect tissue and blood samples from pelagic sharks for analyzing the blood chemistry and DNA/genetic content of these various species. The samples can be compared with samples being taken from local benthic and estuarine sharks such as leopard and seven-gill sharks. Trace organo-chlorines, PCB's, Metals and other pollutant loads are catalogued in the sharks tissues and can yield insights into local marine pollutant levels that can be compared over time. Aside from assisting research scientists and wildlife officials, the project serves as an excellent study platform for marine science students, sportsmen and nature lovers. This volunteer effort is based at the Santa Cruz Yacht Harbor and has been very successful in terms of educating the public about Marine Conservation. Student volunteers from local high schools and colleges are able to get hands on field experience and exposure to a species they would not typically come across even as a graduate student.

V. Objectives: The objective of the project is to gain deeper insights into the poorly understood world of shark behavior, seasonality, abundance (gender ratio's) and range through the tagging and sampling of pelagic sharks within the Monterey Bay National Marine Sanctuary. By involving the public in this project as volunteer participants, the project is able to educate the angler, student or naturalist in the proper methods of collecting, handling, and sampling of marine fish and sharks. Having completed a term as a PSRF volunteer, an angler will better know how to ID species, how to use less invasive tackle and how to successfully release a tagged fish or shark. The Project is a supporter of the California Dept. of Fish and Game's, Tag and release program and has tagged over 3000 thousand sharks in the Monterey bay. References available upon request.

VI. Background and History of your organization and the project: PSRF was formed in 1990, and was founded as a non-profit 501 c3 in 1996. More info attached.

VII. How will project be accomplished: By utilizing the methodologies and protocols developed by the California Dept. of Fish and Game's Pelagic Shark Tagging Project in Long Beach CA.

VII. Budget to include the precise use of grant monies: Grant monies will be used for fuel expenses, educational and instructional literature, sampling supplies and tagging equipment. \$500.00 for fuel. \$300.00 for tagging gear and sampling supplies. \$200.00 for printing and postage.

The Pelagic Shark Research Foundation



Founded 1990 Research Education Advocacy

- ° Focus: Research and conservation of the over 20 species of sharks in Monterey and SF Bay
- ° Tagging programs: Help scientists manage and protect our natural resources
- ° Stranding Unit: the only shark and marine predator rescue unit in the nation
- ° Fast Response Team: Vessels dispatched to document offshore wildlife phenomenon
- ° PSRF footage and resources relied upon by marine science institutions and academic projects
- ° Lecture presentations: offered free to Kindergarten through University level
- ° PSRF: featured on Discovery Channel, CNN and international media

Please Support Team Pelagic

T-Shirts for sale at:
Sleepy Dragon Bistro & Book
Shamrock Charters
Save Our Shores
 or order at www.pelagic.org

The Santa Cruz based Pelagic Shark Research Foundation is a non-profit research, education and advocacy group

that was founded in 1990. The foundation sponsors and supports local and state marine science projects relating to sharks and marine predators. The



Photo by Dr. David Casper

central eastern /Pacific and the Monterey Bay National Marine Sanctuary are a seasonal migration super highway for huge numbers of marine mammal and fish. The surrounding waters are a veritable oceanic "Serengetti" and our area is widely being touted as the future "Silicon Valley" of marine sciences. Tremendous bio-diversity attracts lots of marine predators like sharks and killer whales.

The Pelagic Shark Research Foundation supports seasonal research projects that focus on most of the more than twenty different species of sharks that inhabit the Monterey and San Francisco Bays. Projects include tagging and releasing sharks in the wild in order to gain valuable insights into their movements, migrations and population dynamics. The data gathered by PSRF is crucial to the ongoing efforts of wildlife protection and management. Our tagging programs and the data that they

generate help scientists and wildlife officials to protect our natural resources.

We also aim to dramatically reduce shark sportfishing mortality by educating anglers and instilling the "catch and release" ethic over the "kill sport" ethic, where the sharks are most often killed and not even utilized for food.

PSRF sponsors a Stranding Unit that responds to washed-up or beached sharks and whales. While there are several organizations that specialize in recovering marine mammals and birds that have washed ashore, there are none other than Pelagic that specialize in covering shark and marine predator strandings and events. PSRF fields a Fast Response Team with the capability of reacting swiftly to reports of offshore wildlife phenomenon and dispatching research vessels to the site or event in rapid order. Phenomenal wildlife events which often occur within the Monterey Bay are rarely recorded or documented by scientists. Indeed, unlike PSRF, most Bay area labs are closed on weekends. Basking sharks, giant sea-turtles, blue whales, killer whales and white sharks are but a few of the many creatures that

Team Pelagic has been able to document. The Pelagic Fast Response Team takes pride in its camera coverage of killer whale attacks on gray whales and white sharks feeding on elephant seals. PSRF footage, personal accounts and resources are shared with and utilized by area marine science institutions and academic projects. PSRF has appeared on the Discovery Channel, CNN, and is often featured in local, national and international media. The Foundation visits classrooms from Kindergarten through the University level and offers video/slide lecture presentations free of charge. PSRF has been active in the local community by fostering the Annual Santa Cruz Shark Festival and other events focusing on the education of youngsters. The Foundation also takes local at-risk youth out for boat rides and shark and whale watching expeditions in hopes of giving them positive perspectives on life and the natural world. Visit our Web site at www.pelagic.org to get more info.



Photo by Scott Davis

SANTA CRUZ COUNTY FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

1. Region V CREEC (California Regional Environmental Education Coordinators Network)

2. Amount of Funding Requested: \$1,000

3. Name, address, and telephone number of contact person:

Bill Lovvorn, CREEC Coordinator, Region V
Santa Cruz County Office of Education
809 H Bay Avenue
Captiola, CA 9.50 10
(83 1) 477-5483

4. Description of Project (Project Wild Teacher's Workshop)

- Provide teachers with curriculum materials
- Provide educators with hands-on educational opportunities for teaching about Fish and Game
- Provide teachers with the knowledge to promote and foster awareness and understanding of local Fish and Game Ecosystems
- Stimulate the interest of teachers in Fish and Game Environment Education

5. Objective:

To provide teachers with an educational experience for them to encourage their students to protect and preserve living Fish and Game Communities.

6. How will Project be Accomplished:

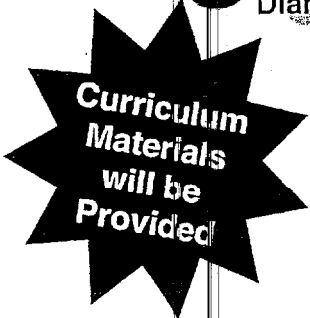
Teachers attending Project Wild, teacher's workshop – see attached flyer.
Workshop registration sheet.

7. Budget Funding Request Justification:

- To provide Project Wild Kits
- Speaker fee
- Meeting expenses – registration forms, letters, and printing, etc.
- Registration fee



COUNTY OFFICE OF EDUCATION
Diane K. Siri, Superintendent



K-8th Grade Teachers

Fish and Game Education Story Teachers Workshop - Project Wild

Project Wild is an exciting environmental education program for students in grades K-8. Each teacher will receive a Project Wild Kit that includes hands-on activities, posters, and maps.

Deborah Johnson
Education Programs
California Department
of Fish & Game
Monterey County

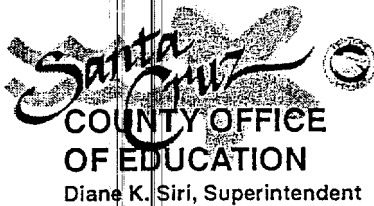
Project Wild activities are fun interactive ways to integrate environmental education consistent with the goals of the California State Framework for Science and Social/ Studies.

Summer or Fall 1999
Santa Cruz County
Office of Education
3:30 - 6:00 PM
FREE



Sponsors:
Santa Cruz County Office of Education
Santa Cruz County Fish and Game Commission
California Department of Education

Fish and Game Educational Story Teachers' Workshop - Project Wild



809-H Bay Avenue
Capitola, CA 95010

Enrollment limited. For more information, call Jack McLaughlin or Bill Lovorn at (831) 477-5483.

Name/Position _____
School _____ District _____ Grade/Subject area _____
Work phone _____ Home phone _____
Home address _____

FEE \$20. Mail or FAX registration form to Virginia House, Administrative Secretary to the Projects Office Santa Cruz County Office of Education • 809-H Bay Avenue, Capitola, CA 95010-2199. If you have any questions, call Virginia House at (831) 4795313.

For QUICK REGISTRATION FAX (831) 479-5242

MBS&TP FUNDING REQUEST

550

January 20, 1999

TO: Santa Cruz County Fish & Game Commission
FROM: Monterey Bay Salmon & Trout Project
SUBJECT: Funding for Steelhead/Pinniped Research Materials

Dear Commissioners,

This is a funding request for the materials to put together 3 (three) sets of the 1998/1999 San Lorenzo River Felton Dam and Scotts Creek Research and Fish Trapping Reports. These reports will be going to Moss Landing Marine Laboratories for input to National Marine Fisheries Service on the interactions of pinnipeds on salmonids in this area. They will also be used by other organizations with interest in this subject. This reports will include the numbers of fish studied, the sexes of those fish, the lengths of these fish, the ratio of wild fish to hatchery fish, and photos of fish with any scale scratches or other injuries, especially those caused by pinnipeds.

Each report is expected to have photos of approximately 50% of the fish studied. The size of the run of steelhead is expected to be around 1,000 fish. So about 500 fish will be studied and photographed.

The cost breakdown for these reports will be:

1. Three 4" three ring binders per report at \$13.00 each. =	\$39.00
2. 1,000 copies per report (2 copies per page) at \$.07 each =	70.00
3. 500 clear plastic pocket sheets at \$.09 14 each =	45.70
4. 1,200 4"x6" color photos per album at \$.20 each.	240.00
5. Items such as grease pencils, pens, and glue sticks to do reports.	<u>40.00</u>
TOTAL EACH REPORT	\$434.70

A total of three reports will be needed.

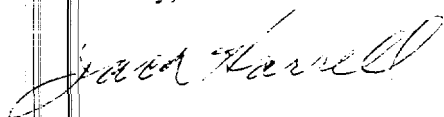
First to go Moss Landing Marine Laboratories.

Second to go to Monterey Bay Salmon and Trout Project for files.

Third to be available for loan or copy, to government agencies and/or other interested organizations.

TOTAL FUNDING REQUEST: 3 REPORTS AT \$434.70 = \$1,304.10

Sincerely,



Jack Harrell. MBSTP Fish Trapping and Research Coordinator

FISHERMEN'S ALLIANCE OF CALIFORNIA

551

885 Abrego street
Monterey, CA 93940

(831) 373-3720
Fax (831) 373-8098

SANTA CRUZ COUNTY FISH AND GAME ADVISORY COMMISSION FUNDING REQUEST

Name of Group: Fisherman's Alliance of California

Amount of Funding Requested Emergency request for \$5,000.00.

III. Name, Address and Phone Number of Contact Persons:

- a. Richard L. Hughett, 885 Abrego Street, Monterey, CA 93940
Phone: 408/373-3720 FAX: 408/373-8098
- b. Russ Colwell, P.O. Box 55, Moss Landing, CA 95039
Phone: 408/633-3359 FAX: 408/633-6279

IV. Description of Proposed Project:

The funding we are requesting will be used to complete the third year of **research** study of California Sea Lion interaction with our dwindling **salmonoid and squid fisheries and also to** study the eating habits of **sea lions and harbor seals**. This study is being conducted by the California State University's Moss Landing Marine Laboratories, under the direct supervision of Dr. James T. Harvey, the noted **professor of marine biology** from the university. The research will be broken **into** phases: 1) an offshore study of sea lion/harbor seal interaction with boat fishermen **and their hooked fish and other observed interactions** with resident fish **populations**; 2) a study of sea lion interaction with squid fishermen and the boats **netting squid**; 3) a study of fecal samples to determine **the food source**; 4) and the **socio-economic study**. We will also be **conducting** aerial surveys every month **during the study period** to determine **the location** and numbers of sea lions **and harbor seals**, and any population changes.

V. Objective:

This funding will help nationally-recognized marine biologists and scientists **to** gain knowledge about the feeding habits of sea lions **and harbor seals along our coastline, and what** effects their feeding has on the decreasing populations of our **salmonoid and squid fisheries**. Also, if an imbalance **of nature** is being created by **the ever-increasing number** of sea lions, **in** contrast to the decrease **in salmonoids to the level that they are** now considered endangered or **threatened** in many coastal areas. These findings will then be submitted to the National Marine Fisheries Service (NMFS) for review and the the U.S. Congress for this year's **hearings of the status** of the Marine Mammal Protection Act, **It will hopefully become the foundation** study that will lead to the creation of a long term population **maintenance program** for the California Sea Lion and Pacific **Harbor Seal**.

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VI. Background and History of your organization, and or of the problem:

The Fishermen's Alliance of **California** was founded in **1995** by a **group of sport** and commercial fishermen who are very concerned about the over-population of California Sea Lions in Monterey Bay in and areas up and down the **Pacific Coast** of the United States. Our mission statement is attached. The **F.A.C.** is **an on-going organization** and **our efforts continue**. Since our creation we have been working the educate the public and our governmental representatives and agencies **about** this disastrous situation, created by a sea **lion** population that grows between **about 10%** a year. Most of the natural predators that a one time kept the sea lion population **at** a much smaller growth rate are now gone, leaving the sea lion at the top of the food chain and creating a major problem in the **balance** of nature in our oceans, And, this problem does not only exist along our coastline, for sea lions have now expanded their area of hunting in search of food, which now includes **all** species of rockfish, lamprey eels, halibut, barracuda, bonita, and swordfish. They travel miles up our coastal rivers and are also in the waterways of the Sacramento Delta where they eat striped bass and catfish. They have become more aggressive toward **humans**, with documented evidence detailing attacks on fishermen and non-fishing boaters. They are a major threat to the safety of anyone venturing out in the **ocean** where fishing activities occur!

V I I . How will the project by accomplished?

The details for the interaction study were developed by Dr. Harvey of the Moss Landing Marine Laboratories. The plan of action and project **timing** are as follows:

- a) March **1999** through November 1999:
Offshore study of sea lion/salmon/ **rockfish** interaction.
- b) April 1999 through October **1999**: Offshore study
of sea lion/squid fishery interaction.
- c) March 1999 through October 1999:
Collection and analysis of fecal samples.
- d) March 1999 through November 1999: '
Collection of data and development of **socio-economic study**.

This grant will help fund the hours of actual collection of data its analysis, compilation, supplies and the creation of the final documents. It will not include unding for housing or meals. Of course, your association **will receive** copies of all completed data and reports, as we know the information they **will** contain will benefit every organization concerned about fish and game issues.

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VIII. Budget to include the precise use of grant monies. Attached is our organization's 1999 annual budget and the work budget as presented to us by Dr. James Harvey. The amount budgeted for this phase of work is \$36,370.00.

In summary, the F.A.C. views this study as the opportunity to present current information about the impacts that California Sea Lions and Pacific harbor Seals are having on our dwindling salmonid populations. Many local commercial fishermen fish our coastal waters and have been effected by the sea lion problem. We also have study information that shows that harbor seals are devastating the steelhead smolts in the San Lorenzo River as they travel through the lower river trying to reach the ocean.

We are working with some of the finest marine biologists in the nation, and with internationally recognized, environmentally-conscious organizations, such as the Monterey Bay Aquarium and the Monterey Bay National Marine Sanctuary. This study will be presented to the National Marine Fisheries Service and the U.S. Congress, which will be conducting hearings later this year relative to updating the Marine Mammal Protection Act (MMPA), which is the controlling legislation for California Sea Lions and Pacific Harbor Seals. It will give us the strong position we need to get the federal government to act on our concerns, to make recommendations for the control of the ever-expanding California Sea Lion population along the entire coast of California, Oregon and Washington.

We are making this emergency request because we are very short of our funding goal to complete Dr. Harvey's work and it is imperative that we do complete the study before the year's Marine Mammal Protection Act hearings that are scheduled before the U.S. Congress in October. Our study is the only one of this nature now being conducted along the entire Pacific West Coast!

We appreciate your immediate consideration of this request, and hope you will grant us the funds needed to help complete the very important work.

885 Abrego Street
Monterey, CA 93940

(831) 373-3720 **554**
Fax (831) 373-8098

January 10, 1999

Fishermen's Alliance of California
1999 Operating Budget

Income

1) Memberships	\$10,000.00
2) General Donations	15,000.00
3) Grants (Private Foundations, Fish & Game Commissions Governmental Agencies)	42,720.00
4) Merchandise Sales	3,000.00
5) Events	<u>2,000.00</u>
	\$72,700.00

Expenses

1) Interaction Study and equipment	\$36,370.00
2) Socio-Economic Study	18,000.00
3) Project Coordination	12,000.00
4) Long distance phone and FAX	1,000.00
5) Travel	1,000.00
6) Materials and Supplies	1,350.00
7) Printing	1,000.00
8) Video Production	<u>2,000.00</u>
	\$72,720.00

To: Fishermen's Alliance of California
From: Dr. James T. Harvey - Moss Landing Marine Laboratories
 Michael J. Weise - Moss Landing Marine Laboratories
Subject: Budget for 1999 Pinniped/Salmon Fishery Interaction Project
Date: 1/12/99

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I. <u>Salmon Season</u> (March - September)		
Observation Hours -	300 hrs. @ \$12/hr. =	\$3600
	772 hrs. @ \$7/hr. =	\$5404
March- Sport	(6 hrs. - dock)	
CPFV	(30 hrs.-boat, 8 hrs.-dock)	
April - Sport	(9 hrs. - dock)	
CFFV	(40 hrs.- boat, 19 hrs.-dock)	
May - Sport	(9 hrs - dwk)	
CPFV	(40 hrs.- boat, 19 hrs.-dock)	
Commerical	(120 hrs.-boat, 56 hrs.-dock)	
June - Sport	(9 hrs.- dock)	
CPFV	(40 hrs.- boat, 19 hrs.-dock)	
Commerical	(60 hrs.-boat, 28 hrs.-dock)	
July - Sport	(9 hrs.- dock)	
CPFV	(40 hrs.- boat, 19 hrs.-dock)	
Commerical	(120 hrs.-boat, 56 hrs.-dock)	
Aug.- Sport	(9 hrs. - dock)	
CPFV	(40 hrs.- boat, 19 hrs.-dock)	
Commerical	(120 hrs.-boat, 56 hrs.-dock)	
Sept. - Sport	(9 hrs. - dock)	
CPFV	(40 hrs. - boat, 19 hrs.-dock)	
Commerical	(48 hrs.-boat, 56 hrs.-dock)	
Scat Collection and Hard Part Identification-	50 hrs./month @ \$7/hr. =	\$2450
	50 hrs./month @ \$12/hr. =	\$4200
Supplies (Gloves, bags, etc.) =		\$ 100
Data Analysis - 40 hrs./ month @ \$12/hr. =		\$3360
	Subtotal =	\$19,114

San Jose State University Foundation Budget Summary

Salaries - 930 hrs. @ \$12/hr. = \$11160 + (\$11160*0.05) =	\$11718
1122 hrs. @ \$7/hr. = \$7854 + (\$7854*0.05) =	\$ 8247
Supplies - \$100	\$ 100
Total Direct Costs	\$20,065
Indirect Costs - \$20,065 * 0.26 =	\$5217
Total Cost	\$25,282

II. Squid Season (April - October)

Observation Hours - 483 hrs @ \$7/hr. = \$3391
 Dock - 15 days x 3 hrs. = 45 hrs./month
 Boat - 2 days x 12 hrs. = 24 hrs./ month

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Data analysis - 20 hrs. / month @ \$12/hr. = \$1680

* Scat collection and identification, and aerial surveys for the salmon project can be incorporated in squid fisheries analysis.

Subtotal \$4501

San Jose State University Foundation Budget Summary

Salaries - 483 hrs. @ \$7/hr. = \$3381 + (\$3381 * 0.05) = \$3550
 140 hrs. @ \$12/hr. = \$1680 + (\$1680 * 0.05) = \$1764

Total Direct Costs \$5314

Indirect costs = \$5314 x 0.26 = \$1382

Total Cost \$6696

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IV Aerial Surveys (March - September)

Salmon - 1 survey/month (Mar.-Sept.) for 3 hrs @ \$120/hr. =	\$2520
Observer Survey Hours - 3 hrs. @ \$8/hr. / month =	\$ 168
3 hrs. @ \$12/hr. / month =	\$ 252
Supplies (Film, Film Processing, etc.) @ \$75/mo. =	\$ 525
Subtotal =	\$3465

San Jose State University Foundation Budget Summary

Salaries - 21 hrs. @ \$8/hr. = \$168 + (\$168*0.05) =	\$ 176
21 hrs. @ \$12/hr. = \$252 + (\$252*0.05) =	\$ 265
Supplies -	\$ 525
Airplane/Pilot/Fuel =	\$2520
Total Direct Costs	\$3486
Indirect Costs - \$3486 * 0.26 =	\$ 906
Total Cost	\$4392

SUMMARY OF COSTS:

1) Salmon Season	\$25,282.00
2) Squid Season	6,696.00
3) Aerial Surveys	4,392.00
	<hr/>
	\$36,370.00

FISHERMEN'S ALLIANCE OF CALIFORNIA

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Shown below are pages 16 and 17 of the February 1999 "Report to Congress," prepared by the U.S. Department of Commerce, the National Oceanic and Atmospheric Administration (N.O.A.A.) and the National Marine Fisheries Service (N.M.F.S.). This report addresses the "Impacts of California Sea Lions and Pacific Harbor Seals on Salmonids and West Coast Ecosystems." These pages contain the Listing of further studies that are needed, and our organization's research is designed to fill these informational needs. This important data will help the U.S. Congress in making a determination as to how to deal with the problem of aggressive animals, and set guidelines for their management and for the control of sea lion and harbor seal populations.

D. Information Needs

Although there is sufficient information to warrant action to remove pinnipeds from areas where they co-exist with and prey on salmonid populations of concern, there is an array of additional information needed to evaluate and monitor California sea lion and Pacific harbor seal impacts on salmonids and other components of the West Coast ecosystems. These information needs include:

- Conducting site-specific investigations on pinniped predation impacts on various salmonid populations. This would include quantifying composition of the diet and food habits requirements, basal on age/sex class information appropriate for the area of concern, and considering site-specific predator abundance temporally and spatially.
- Conducting state-by-state and river-by-river investigations on salmonid populations that are vulnerable to pinniped predation.
- Conducting studies of comparative skeletal anatomies of different salmonid species, so that specific prey species may be identified in food habits studies using scat and gastrointestinal tract analyses.
- Conducting research on site-specific seasonal abundance and distribution of California sea lions and Pacific harbor seals north of Point Conception.
- Conducting research to assess and evaluate potential impacts of pinnipeds on specific fisheries and fishing areas.
- Conducting socioeconomic studies on impacts of pinnipeds on various commercial and recreational fisheries.
- Conducting ecosystem research where the impacts of pinniped predation on non-salmonid resources can be addressed, beginning with small systems such as Puget Sound and expanding those studies to larger West Coast ecosystems.
- Collecting unbiased samples for food habit studies. This may require the direct lethal collection of pinnipeds for analysis of stomach contents.

Research in the above areas is needed, but completion of such research should not be viewed as a prerequisite to undertaking necessary actions and recommendations to address existing pinniped conflict situations identified in this report.