FY15 PROJECT PROPOSAL SUMMARY PAGE

Continuing, Multi-Year Projects

Proposals are due to the EVOSTC office by September 2, 2014. Please note that the information in your proposal and budget form will be used for funding review. Late proposals, revisions or corrections may not be accepted.

Project Title: Pigeon Guillemot Restoration Research in Prince William Sound, Alaska

Project Period: February 1, 2015 – January 31, 2016

Primary Investigator(s): Dr. David B. Irons, U.S. Fish and Wildlife Service, and Dr. Daniel D. Roby, U.S. Geological Survey – Oregon Cooperative Research Unit

Study Location: Naked, Storey and Peak islands in Prince William Sound, Ak

Project Website (if applicable): None at this time.

Abstract*: This project, provides an opportunity to restore the population of Pigeon Guillemots (*Cepphus* columba) in Prince William Sound, Alaska, which has fallen by more than 90% at the Naked Island Group since 1989. A restoration plan for Pigeon Guillemots in PWS was prepared to address the species' lack of population recovery following injury by the 1989 Exxon Valdez oil spill. Predation on nests and adults by mink is now the primary limiting factor for guillemot reproductive success and population recovery at the most important historical nesting site for guillemots in PWS (i.e., the Naked Island group). Mink on the Naked Island group are descended in part from fur farm stock and arrived on the island group during the 1980s. The goal of the project is to remove all mink from the Pigeon Guillemot nesting areas and allow for recovery to occur. We trapped for the first time in the winter and spring of 2014. Seventy-six mink were killed. It is unknown how many were left, but one trapper suspected 20-30 might have been left. But the females likely produced more young this summer. We expect it will take 2 to 3 trapping seasons to remove all mink from the nesting areas. This summer we counted 74 pigeon guillemots, up from 53 last year, but control islands also had a similar increase. We did not expect to see an increase in birds the first year. We surveyed active nests and found 11, down from 17 in 2008, which was expected. This winter and spring we will trap again.

*The abstract should provide a brief overview of the overall goals and hypotheses of the project and provide sufficient information for a summary review as this is the text that will be used in the public work plan and may be relied upon by the PAC and other parties.

Estimated Budget:

EVOSTC Funding Requested* (*must include 9% GA*):

FY14	FY15	FY16	FY17	FY18	TOTAL
\$396,655.8	\$391,205.8	\$154,014.5	\$139,967.7	\$124,707.7	\$1,206,551.4

Non-EVOSTC Funds to be used: First line is from National Fish and Wildlife Fndn Grant, second line is USFWS in kind support.

FY14	FY15	FY16	FY17	FY18	TOTAL
\$218,280.0	\$198,280.0	\$204,580.0	\$215,580.0	\$214,580.0	\$1,051,300.0
\$173,000.0	\$173,000.0	\$113,000.0	\$98,000.0	\$98,000.0	\$655,000.0

^{*}If the amount requested here does not match the amount on the budget form, the request on the budget form will considered to be correct.

Date: 27 August 2014

Reviewers will have available your annual report, original proposal, and this proposal during their review. However, to assist reviewers, please highlight or otherwise distinguish any new or additional information that was not included in your original proposal.

I. EXECUTIVE SUMMARY

Please provide a summary of the project including key hypotheses and overall goals, as submitted in your original proposal. If there are additional highlights that you would like to include since you submitted your annual report, please include them here. Also, please list any publications that have been submitted and/or accepted since you submitted your annual report. :

This project provides an opportunity to restore the population of Pigeon Guillemots (*Cepphus columba*) in Prince William Sound, Alaska, which has fallen by more than 90% at the Naked Island Group since 1989. A restoration plan for Pigeon Guillemots in PWS was prepared to address the species' lack of population recovery following injury by the 1989 *Exxon Valdez* oil spill. Predation on nests and adults by mink is now the primary limiting factor for guillemot reproductive success and population recovery at the most important historical nesting site for guillemots in PWS (i.e., the Naked Island group). Mink on the Naked Island group are descended in part from fur farm stock and arrived on the island group during the 1980s. The goal of the project is to remove all mink from the Pigeon Guillemot nesting areas and allow for recovery to occur. We trapped for the first time in the winter and spring of 2014. Seventy-six mink were killed. It is unknown how many were left, but one trapper suspected 20-30 might have been left. But the females likely produced more young this summer. We expect it will take 2 to 3 trapping seasons to remove all mink from the nesting areas. This summer we counted 74 pigeon guillemots, up from 53 last year, but control islands also had a similar increase. We did not expect to see an increase in birds the first year. We surveyed active nests and found 11, down from 17 in 2008, which was expected. This winter and spring we will trap again.

The population response of guillemots to mink eradication at the Naked Island group is measurable through the comparison of historical and recent guillemot population surveys completed at the Naked Island group and the Smith Island group (mink-free islands) using a Before–After–Control–Impact design. Although a precise prediction of the guillemot population response to mink eradication is not possible, the time expected to population recovery can be estimated. If the expected increase in guillemot productivity from mink eradication is realized and model assumptions are correct, guillemot population at the Naked Island group will double within 5-10 years following mink.

The National Fish and Wildlife Foundation provided \$1,051,300 in support of this project to restore Pigeon Guillemots.

Change from original proposal: The plan was to eradicate all mink from islands, but ADF&G did not support that as a first step. Now the plan is to remove all mink from the 70% of the shoreline where Pigeon Guillemots nested or currently nest.

II. COORDINATION AND COLLABORATION

A. Within a EVOTC-Funded Program

Provide a list and clearly describe the functional and operational relationships with other EVOSTC-funded program projects. This includes any coordination that has taken or will take place and what form the coordination will take (shared field sites or researchers, research platforms, sample collection, data management, equipment purchases, etc.).

The Gulf Watch, Continuing the Legacy: Prince William Sound Marine Bird Population Trends project produces a sound-wide estimate for Pigeon Guillemots, which will be used to monitor the population recovery at the sound-wide scale. We may be able to share a summer camp site in the future.

B. With Other EVOSTC-funded Projects

Indicate how your proposed project relates to, complements or includes collaborative efforts with other proposed or existing projects funded by the EVOSTC that are not part of a EVOSTC-funded program.

We are not aware of any such projects.

C. With Trustee or Management Agencies

Please discuss if there are any areas which may support EVOSTC trust or other agency work or which have received EVOSTC trust or other agency feedback or direction, including the contact name of the agency staff. Please include specific information as to how the subject area may assist EVOSTC trust or other agency work.

If the proposed project requires or includes collaboration with other agencies, organizations or scientists to accomplish the work, such arrangements should be fully explained and the names of agency or organization representatives involved in the project should be provided. If your proposal is in conflict with another project, note this and explain why.

Implementation of this plan requires coordination with agencies with authority and responsibility of the Naked Island group, American mink, and Pigeon Guillemots (See below). Monitoring of Pigeon Guillemots is being conducted by the U.S. Fish and Wildlife Service. Permits for eradication of mink at the Naked Island group are being obtained from both the Alaska Department of Fish and Game and the U.S. Department of Agriculture – Forest Service. Mink removal is being conducted by the U.S. Department of Agriculture – Wildlife Services or other contractor.

Authority and Responsibility

U. S. Fish and Wildlife Service

The U.S. Fish and Wildlife Service mission is "to work with others to conserve, protect and enhance fish, wildlife and plants and their habitats for the continuing benefit of the American people." Along with other Federal, State, Tribal, local, and private entities, the Service protects migratory birds, endangered species, certain fish species, and wildlife habitat. The Service is the primary agency responsible for the conservation of the Pigeon Guillemot and its habitat as authorized by the Migratory Bird Treaty Act.

Alaska Department of Fish and Game

The mission of the Alaska Department of Fish and Game is to "protect, maintain, and improve the fish, game, and aquatic plant resources of the state, and manage their use and development in the best interest of the economy and the well-being of the people of the state, consistent with the sustained yield principle." The Department is responsible for maintaining a harvestable surplus of fish and wildlife species, including furbearers and marine forage fish.

U.S. Department of Agriculture Forest Service

The mission of the Forest Service is "to sustain the health, diversity, and productivity of the Nation's forests and grasslands to meet the needs of present and future generations." The Forest Service is

responsible for the management of the 5.4 million acre Chugach National Forest that includes nearly all of the Naked Island group, along with most of the rest of the land area of Prince William Sound.

III. PROJECT DESIGN – PLAN FOR FY15

A. Objectives for FY15

Identify the primary objectives for your project for FY15 as submitted in your original proposal.

- **Objective 1.** Remove mink from pigeon guillemot nesting areas on Naked, Storey and Peak Islands.
- **Objective 2**. Monitor the guillemot population response to mink removal the Naked Island group.

B. Changes to Project Design

If the project design has changed from your original proposal, please identify any substantive changes and the reason for the changes. Include any information on problems encountered with the research or methods, if any. This may include logistic or weather challenges, budget problems, personnel issues, etc. Please also include information as to how any problem has been or will be resolved. This may also include new insights or hypotheses that develop and prompt adjustment to the project.

We got a late start, but are now on track after a successful first field season.

IV. SCHEDULE

A. Project Milestones for FY 15

For each project objective listed (III.A), specify when critical project tasks will be completed, as submitted in your original proposal. Please identify any substantive changes and the reason for the changes. Please format your information as in the following example:

- **Objective 1.** Remove mink from pigeon guillemot nesting areas on Naked, Storey and Peak Islands. *To be met by January 2019*
- **Objective 2**. Monitor the guillemot population response to mink removal the Naked Island group. *To be met by December 2019*

B. Measurable Project Tasks for FY 15

Specify, by each quarter of each fiscal year, when critical project tasks (for example, sample collection, data analysis, manuscript submittal, etc.) will be completed, as submitted in your original proposal. Please identify any substantive changes and the reason for the changes. Please format your schedule as in the following example:

FY 15, 1st quarter (February 1, 2015 - April 31, 2015)

February to April: Trap mink
March: Annual report

FY 15, 2nd quarter (May 1, 2015-July 30, 2015)

May: Trap mink

May-June: Pigeon Guillemot Survey

July: Nest search

FY 15, 3rd quarter (August 1, 2015 – October 31, 2015)

August-October: Analyze data

FY 15, 4th quarter (November 1, 2015- January 31, 2016)

January: Attend AMSS

Nov-Jan: prepare for field season

V. PROJECT PERSONNEL – CHANGES AND UPDATES

If there are any staffing changes to Primary Investigators or other senior personnel please provide CV's for any new personnel and describe their role on the project.

No Change

VI. BUDGET

A. Budget Forms (Attached)

Provide completed budget forms.

B. Changes from Original Proposal

If your FY15 funding request differs from your original proposal, provide a detailed list of the changes and discuss the reason for each change.

No Change

C. Sources of Additional Funding

Identify non-EVOSTC funds or in-kind contributions used as cost-share for the work in this proposal. List the amount of funds, the source of funds, and the purpose for which the funds will be used. Do not include funds that are not directly and specifically related to the work being proposed in this proposal.

National Fish and Wildlife Foundation

\$198,280 for conducting fieldwork (salary, gas, equipment)

USFWS in kind contributions \$173,000 for salary, boats and equipment

Budget Category:	Proposed	Proposed	Proposed	Proposed	Proposed	TOTAL	ACTUAL	NFWF
	FY 14	FY 15	FY 16	FY 17	FY 18	PROPOSED	CUMULATIVE	Budget Share
_								
Personnel	\$43,800.0	\$43,800.0	\$70,200.0	\$70,200.0	\$70,200.0	\$298,200.0		
Travel	\$1,914.0	\$1,914.0	\$3,712.0	\$3,712.0	\$3,712.0	\$14,964.0		
Contractual	\$275,190.4	\$270,190.4	\$43,985.7	\$37,148.7	\$23,148.7	\$649,663.9		
Commodities	\$40,000.0	\$40,000.0	\$20,400.0	\$14,350.0	\$14,350.0	\$129,100.0		
Equipment	\$3,000.0	\$3,000.0	\$3,000.0	\$3,000.0	\$3,000.0	\$15,000.0		
SUBTOTAL	\$363,904.4	\$358,904.4	\$141,297.7	\$128,410.7	\$114,410.7	\$1,106,927.9		\$1,051,300.0
General Administration (9% of subtotal)	\$32,751.4	\$32,301.4	\$12,716.8	\$11,557.0	\$10,297.0	\$99,623.5		
PROJECT TOTAL	\$396,655.8	\$391,205.8	\$154,014.5	\$139,967.7	\$124,707.7	\$1,206,551.4		\$1,051,300
Other Resources (Cost Share Funds)	\$173,000.0	\$173,000.0	\$113,000.0	\$98,000.0	\$98,000.0	\$655,000.0		
NFWF Grant	\$218,280.0	\$198,280.0	\$204,580.0	\$215,580.0	\$214,580.0	\$1,051,300.0		

Comments: Cost-Share Funds

David Irons salary (GS13 for 6 months) =\$60K

Boat user fee (FY14 300 days, FY15 300 day, FY16 180 days, FY17 150 days, FY18 150 days @ \$500/day) = \$540K

Equipment user fee (computers, survival suits, electronics, etc.) = \$12K/Year X 5 Years = \$60K

GSA vehicle user fee = \$1k/Year X 5 Years = \$5K

Total = \$665K

FY14 - 18

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Agency: U.S. Fish and Wildlife Service

FORM 3A TRUSTEE AGENCY SUMMARY

Personnel Costs:		GS/Range/	Months	Monthly		Personnel	
Name	Project Title	Step	Budgeted	Costs	Overtime	Sum	
Project Leader	PWS Naked Island Restoration	GS11-1				0.0	54300
Bio Science Tech (1 tech x 1 mo.)	PWS Naked Island Restoration	GS5-1	1.0	3000.0	600.0	3,600.0	
Bio Science Tech (1 tech x 1 mo.)	PWS Naked Island Restoration	GS5-1	1.0	3000.0	600.0	3,600.0	
Bio Science Tech (expeditor)	PWS Naked Island Restoration	GS5-1	12.0	3000.0	600.0	36,600.0	
Project Manager (12 Months)						0.0	20000
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
	Subtotal		14.0	9000.0	1800.0		
				P	ersonnel Total	\$43,800.0	

Travel Costs:	Ticket	Round	Total	Daily	Travel	
Description	Price	Trips	Days	Per Diem	Sum	
Truck and boat tunnel fee (Portage - Whittier)	10.0	12			120.0	
Per diem (camp rate), 3 people x 30 days			90	5.0	450.0	
Per diem (travel rate), 3 people x 2 days; 3 people x 5 days for boat trainin			21	64.0	1,344.0	
Lodging, 6 nights x 3 people @ \$150/night/person (Surveys, Jumping Saln						2700
Lodging, 3 people, 2 rooms x 7 nights @ \$160/room (Whittier boat training						2240
Lodging, 3 people, 2 rooms x 7 nights @ \$160/room, 7 nights (Travel to a						2240
					0.0	
					0.0	
					0.0	
					0.0	
					0.0	·
		•		Travel Total	\$1,914.0	

FY14

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Contractual Costs:	Contract	
Description	Sum	
USDA APHIS Wildlife Services Contract includes:		
Bio Science Tech (9 trappers x 3 months x \$3000/trapper/month + \$600/trapper/month overtime)	97,200.0	
Per diem (camp rate), 9 people x 90 days x \$5/person/day	4,050.0	
Per diem (travel rate), 9 people x 6 days x \$64/person/day	3,456.0	
Lodging, 9 people, 7 nights x 5 rooms@ \$160/room (Whittier boat training)	5,600.0	
APHIS Wildlife Services overhead 17.12%	18,884.4	
Other Contracts:		
Charter vessel (winter - 90 days @ \$2,000/day)	120,000.0	60000
Harbor Fees	1,000.0	
Boat repairs and parts	15,000.0	10000
Mink age, sex and diet data	10,000.0	
If a component of the project will be performed under contract, the 4A and 4B forms are required. Contractual Total	\$275,190.4	

Commodities Costs:	Commodities	
Description	Sum	
Boat fuel (3 boats x 90 days x 40 gal/boat/day x \$5/gal winter) (1 boat x 30 days x 70 gal/boat/day x \$5/gal summer)	39,500.0	25000
Outboard oil (3 boats x 3 months x 2 gal/boat/month x \$25/gal winter) (1 boat x 1 month x 2 gal/boat/month x \$25/gal summer)	500.0	
Food (3 people x 30 days x \$20/day summer) (vessel provides food in winter)		1800
Barge for Fuel storage (Naked Island)		20000
Traps and trapping equipment		10000
Commodities Total	\$40,000.0	

FY14

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

New Equipment Purchases:	Number	Unit	Equipment	
Description	of Units	Price	Sum	
Emergency equipment replacement	3.0	1,000.0	3,000.0	
Inflatable Boat with motor				10000
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	FY 14 Total
	New Ed	quipment Total	\$3,000.0	218280

Existing Equipment Usage:	Number Inventory
Descriptior	of Units Agency
Camping supplies	3 FWS
Survival suits	12 FWS
Float coats	12 FWS
Mustang Suits	12 FWS
Binoculars	3 FWS
25' Boston Whaler	4 FWS
Other misc gear	12 FWS

FY14

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

FORM 3B EQUIPMENT DETAIL

Personnel Costs:		GS/Range/	Months	Monthly		Personnel	
Name	Project Title	Step	Budgeted	Costs	Overtime	Sum	
Project Leader	PWS Naked Island Restoration	GS11-1	J				54300
Bio Science Tech (1 tech x 1 mo.)	PWS Naked Island Restoration	GS5-1	1.0	3000.0	600.0	3,600.0	
Bio Science Tech (1 tech1 x 1 mo.)	PWS Naked Island Restoration	GS5-1	1.0	3000.0	600.0	3,600.0	
Bio Science Tech (expeditor)	PWS Naked Island Restoration	GS5-1	12.0	3000.0	600.0	36,600.0	
Project Manager (12 Months)						0.0	20000
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
	Subtotal		14.0	9000.0	1800.0		
				P	ersonnel Total	\$43,800.0	

Travel Costs:	Ticket	Round	Total	Daily	Travel	
Description	Price	Trips	Days	Per Diem	Sum	
Truck and boat tunnel fee (Portage - Whittier)	10.0	12			120.0	
Per diem (camp rate), 3 people x 30 days			90	5.0	450.0	
Per diem (travel rate), 3 people x 2 days; 3 people x 5 days for boat trainin			21	64.0	1,344.0	
Lodging, 6 nights x 3 people @ \$150/night/person (Surveys, Jumping Saln						2700
Lodging, 3 people, 2 rooms x 7 nights @ \$160/room (Whittier boat training						2240
Lodging, 3 people, 2 rooms x 7 nights @ \$160/room, 7 nights (Travel to a						2240
					0.0	
					0.0	
					0.0	
					0.0	
					0.0	
	Travel Tota					

FY15

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Contractual Costs:	Contract	
Description	Sum	
USDA APHIS Wildlife Services Contract includes:		
Bio Science Tech (9 trappers x 3 months x \$3000/trapper/month + \$600/trapper overtime)	97,200.0	
Per diem (camp rate), 9 people x 90 days x \$5/person/day	4,050.0	
Per diem (travel rate), 9 people x 6 days x \$64/person/day	3,456.0	
Lodging, 9 people, 7 nights x 5 rooms@ \$160/room (Whittier boat training)	5,600.0	
APHIS Wildlife Services overhead 17.12%	18,884.4	
Other Contracts:		
Charter vessel (winter - 90 days @ \$2,000/day)	120,000.0	60000
Harbor Fees	1,000.0	
Boat repairs and parts	15,000.0	10000
Mink age, sex and diet data	5,000.0	
If a component of the project will be performed under contract, the 4A and 4B forms are required. Contractual Total	\$270,190.4	

Commodities Costs:	Commodities	
Description	Sum	
Boat fuel (3 boats x 90 days x 40 gal/boat/day x \$5/gal winter) (1 boat x 30 days x 70 gal/boat/day x \$5/gal summer)	39,500.0	25000
Outboard oil (3 boats x 3 months x 2 gal/boat/month x \$25/gal winter) (1 boat x 1 month x 2 gal/boat/month x \$25/gal summer)	500.0	
Food (3 people x 30 days x \$20/day summer) (vessel provides food in winter)		1800
Barge for Fuel storage (Naked Island)		20000
Commodities Total	\$40,000.0	

FY15

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

New Equipment Purchases:	Number	Unit	Equipment	
Description	of Units	Price	Sum	
Emergency equipment replacement	3.0	1,000.0	3,000.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	FY 15 Total
	New Ed	quipment Total	\$3,000.0	198280

Existing Equipment Usage:	Number Inventory	
Description	of Units Agency	
Camping supplies	3 FWS	
Survival suits	12 FWS	
Float coats	12 FWS	
Mustang Suits	12 FWS	
Binoculars	3 FWS	
25' Boston Whaler	4 FWS	
Other misc gear	12 FWS	

FY15

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

FORM 3B EQUIPMENT DETAIL

Personnel Costs:		GS/Range/	Months	Monthly		Personnel	
Name	Project Title	Step	Budgeted	Costs	Overtime	Sum	
Project Leader	PWS Naked Island Restoration	GS11-1	7.0	7500.0	1800.0		54300
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (expeditor)	PWS Naked Island Restoration	GS5-1	12.0	3000.0	1800.0	37,800.0	
Project Manager (12 Months)						0.0	20000
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
	Subtotal		28.0	19500.0	9000.0		
				P	ersonnel Total	\$70,200.0	

Travel Costs:	Ticket	Round	Total	Daily	Travel	
Description	Price	Trips	Days	Per Diem	Sum	
Truck and boat tunnel fee (Portage - Whittier)	10.0	12			120.0	
Per diem (camp rate), 4 people x 90 days			360	5.0	1,800.0	
Per diem (travel rate), 4 people x 2 days; 4 people x 5 days for boat trainin			28	64.0	1,792.0	
Lodging, 6 nights x 4 people @ \$150/night/person (Surveys, Jumping Salm						3600
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room (Whittier boat training						2240
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room, 7 nights (Travel to at						2240
					0.0	
					0.0	
					0.0	
		·	·		0.0	
				Travel Total	\$3,712.0	

FY16

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Contractual Costs:	Contract	
Description	Sum	
USDA APHIS Wildlife Services Contract includes:		
Bio Science Tech (6 trappers x 1 months x \$3000/trapper/month + \$600/trapper overtime)	21,600.0	
Per diem (camp rate), 6 people x 30 days x \$5/person/day	900.0	
Per diem (travel rate), 6 people x 6 days x \$64/person/day	2,304.0	
Lodging, 6 people, 7 nights x 3 rooms@ \$160/room (Whittier boat training)	3,360.0	
APHIS Wildlife Services overhead 17.12%	4,821.7	
Other Contracts:		
Charter vessel (winter - 30 days @ \$2,000/day)		60000
Harbor Fees	1,000.0	
Boat repairs and parts	5,000.0	10000
Mink age, sex and diet data	5,000.0	
If a component of the project will be performed under contract, the 4A and 4B forms are required. Contractual Tota	\$43,985.7	

Commodities Costs:	Commodities	
Description	Sum	
Boat fuel (2 boats x 30 days x 40 gal/boat/day x \$5/gal winter) ((2 boat x 30 days x 70 gal/boat/day x \$5/gal) (1 boat x 60 days x 40 gal/boat/day x \$6 days x 40 gal/boat	20,000.0	25000
Outboard oil (2 boats x 1 months x 2 gal/boat/month x \$25/gal winter) (2 boat x 3 month x 2 gal/boat/month x \$25/gal summer)	400.0	
Food (4 people x 90 days x \$20/day summer) (vessel provides food in winter)		7200
Barge for Fuel storage (Naked Island)		20000
Commodities Total	\$20,400.0	

FY16

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

New Equipment Durchages	Mirros Is a u	1.1	Carrier as a sat	
New Equipment Purchases:	Number	Unit	Equipment	
Description	of Units	Price	Sum	
Emergency equipment replacement	3.0	1,000.0	3,000.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
		quipment Total	0.0	FY 16 Total
	\$3,000.0	204580		

Existing Equipment Usage:	Number	Inventory	
Description	of Units	Agency	
Camping supplies	4 FW	/S	
Survival suits	10 FW	/S	
Float coats	10 FW	/S	
Mustang Suits	10 FW	/S	
Binoculars	4 FW	/S	
25' Boston Whaler	4 FW	/S	
Telescopes	2 FW	/S	
Inflatable Boat	1 FW	/S	
Other misc gear	10 FW	/S	

FY16

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

FORM 3B EQUIPMENT DETAIL

Personnel Costs:		GS/Range/	Months	Monthly		Personnel	
Name	Project Title	Step	Budgeted	Costs	Overtime	Sum	
Project Leader	PWS Naked Island Restoration	GS11-1	7.0	7500.0	1800.0		54300
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (expeditor)	PWS Naked Island Restoration	GS5-1	12.0	3000.0	1800.0	37,800.0	
Project Manager (12 Months)						0.0	20000
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
Subtotal 28.0 19500.0 9000.0					9000.0		
				Po	ersonnel Total	\$70,200.0	

Travel Costs:	Ticket	Round	Total	Daily	Travel	
Description	Price	Trips	Days	Per Diem	Sum	
Truck and boat tunnel fee (Portage - Whittier)	10.0	12			120.0	
Per diem (camp rate), 4 people x 90 days			360	5.0	1,800.0	
Per diem (travel rate), 4 people x 2 days; 4 people x 5 days for boat trainin			28	64.0	1,792.0	
Lodging, 6 nights x 4 people @ \$150/night/person (Surveys, Jumping Saln						3600
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room (Whittier boat training						2240
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room, 7 nights (Travel to a						2240
					0.0	
					0.0	
					0.0	
					0.0	
					0.0	
				Travel Total	\$3,712.0	

FY17

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Contractual Costs:	Contract	
Description	Sum	
USDA APHIS Wildlife Services Contract includes:		
Bio Science Tech (3 trappers x 1 months x \$3000/trapper/month + \$600/trapper overtime)	10,800.0	
Per diem (camp rate), 3 people x 30 days x \$5/person/day	450.0	
Per diem (travel rate), 3 people x 6 days x \$64/person/day	1,152.0	
Lodging, 3 people, 7 nights x 2 rooms@ \$160/room (Whittier boat training)	2,240.0	
APHIS Wildlife Services overhead 17.12%	2,506.7	
Other Contracts:		
Charter vessel (winter - 30 days @ \$2,000/day)		60000
Harbor Fees		1000
Boat repairs and parts	15,000.0	10000
Dog to track mink		10000
Mink age, sex and diet data	5,000.0	
If a component of the project will be performed under contract, the 4A and 4B forms are required. Contractual Tot	al \$37,148.7	

Commodities Costs:	Commodities	
Description	Sum	
Boat fuel (1 boat x 30 days x 40 gal/boat/day x \$5/gal winter) ((2 boat x 30 days x 70 gal/boat/day x \$5/gal) (1 boat x 60 days x 40 gal/boat/day	14,000.0	25000
Outboard oil (1 boats x 1 months x 2 gal/boat/month x \$25/gal winter) (2 boats x 3 month x 2 gal/boat/month x \$25/gal summer)	350.0	
Food (4 people x 90 days x \$20/day summer) (vessel provides food in winter)		7200
Barge for Fuel storage (Naked Island)		20000
Commodities Total	\$14,350.0	

FY17

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

New Equipment Purchases:	Number	Unit	Equipment	
Description	of Units	Price	Sum	
Emergency equipment replacement	3.0	1,000.0	3,000.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	FY17 Total
	New Ed	quipment Total	\$3,000.0	215580
				•

Existing Equipment Usage:	Number	Inventory	
Descriptior	of Units	Agency	
Camping supplies	4	FWS	
Survival suits	7	FWS	
Float coats		FWS	
Mustang Suits		FWS	
Binoculars		FWS	
25' Boston Whaler	3	FWS	
Telescopes	2	FWS	
Inflatable Boat		FWS	
Other misc gear	7	FWS	

FY17

Project Title: Pigeon Guillemot Restoration **Lead PI:** David B. Irons

FORM 3B **EQUIPMENT DETAIL**

Personnel Costs:		GS/Range/	Months	Monthly		Personnel	
Name	Project Title	Step	Budgeted	Costs	Overtime	Sum	
Project Leader	PWS Naked Island Restoration	GS11-1	7.0	7500.0	1800.0		54300
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (1 tech x 3 mo.)	PWS Naked Island Restoration	GS5-1	3.0	3000.0	1800.0	10,800.0	
Bio Science Tech (expeditor)	PWS Naked Island Restoration	GS5-1	12.0	3000.0	1800.0	37,800.0	
Project Manager (12 Months)						0.0	20000
-						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
						0.0	
	Subtotal		28.0	19500.0	9000.0		
	Personnel Total \$70,200.0						

Travel Costs:	Ticket	Round	Total	Daily	Travel	
Description	Price	Trips	Days	Per Diem	Sum	
Truck and boat tunnel fee (Portage - Whittier)	10.0	12			120.0	
Per diem (camp rate), 4 people x 90 days			360	5.0	1,800.0	
Per diem (travel rate), 4 people x 2 days; 4 people x 5 days for boat trainin			28	64.0	1,792.0	
Lodging, 6 nights x 4 people @ \$150/night/person (Surveys, Jumping Salm						3600
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room (Whittier boat training)						2240
Lodging, 4 people, 2 rooms x 7 nights @ \$160/room, 7 nights (Travel to at						2240
					0.0	
					0.0	
					0.0	
					0.0	
					0.0	
Travel Total \$3,712.0						

FY18

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

Contractual Costs:	Contract	
Description	Sum	
USDA APHIS Wildlife Services Contract includes:		
Bio Science Tech (3 trappers x 1 months x \$3000/trapper/month + \$600/trapper overtime)	10,800.0	
Per diem (camp rate), 3 people x 30 days x \$5/person/day	450.0	
Per diem (travel rate), 3 people x 6 days x \$64/person/day	1,152.0	
Lodging, 3 people, 7 nights x 2 rooms@ \$160/room (Whittier boat training)	2,240.0	
APHIS Wildlife Services overhead 17.12%	2,506.7	
Other Contracts:		
Charter vessel (winter - 30 days @ \$2,000/day)		60000
Harbor Fees	1,000.0	
Boat repairs and parts	5,000.0	10000
Dog to track mink		10000
If a component of the project will be performed under contract, the 4A and 4B forms are required. Contractual Total	\$23,148.7	

Commodities Costs:	Commodities	
Description	Sum	
Boat fuel (1 boat x 30 days x 40 gal/boat/day x \$5/gal winter) ((2 boat x 30 days x 70 gal/boat/day x \$5/gal) (1 boat x 60 days x 40 gal/boat/day x \$60 days x 40	14,000.0	25000
Outboard oil (1 boats x 1 months x 2 gal/boat/month x \$25/gal winter) (2 boats x 3 month x 2 gal/boat/month x \$25/gal summer)	350.0	
Food (4 people x 90 days x \$20/day summer) (vessel provides food in winter)		7200
Barge for Fuel storage (Naked Island)		20000
Commodities Total	\$14,350.0	

FY18

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

New Swimmert Breakers	Missaalaaa	11!4	E anni de la caración de	
New Equipment Purchases:	Number	Unit	Equipment	
Description	of Units	Price	Sum	
Emergency equipment replacement	3.0	1,000.0	3,000.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	
			0.0	FY18 Total
	New Ed	quipment Total	\$3,000.0	214580

Existing Equipment Usage:	Number Inventory
Descriptior	of Units Agency
Camping supplies	4 FWS
Survival suits	7 FWS
Float coats	7 FWS
Mustang Suits	7 FWS
Binoculars	4 FWS
25' Boston Whaler	3 FWS
Telescopes	2 FWS
Inflatable Boat	1 FWS
Other misc gear	7 FWS

FY18

Project Title: Pigeon Guillemot Restoration

Lead PI: David B. Irons

FORM 3B EQUIPMENT DETAIL

Total National Fish and Wildlife Foundation Share

1269580