Summary of SDJV Projects for FY2017

(costs estimated as of February 14, 2017; subject to change, and conditional on funds availability)

Projects	Lead(s)	Project Description	Estimated Cost to SDJV in FY2017
COMMUNICATIONS			
Web site revisions, maintenance, e-blast	U.S. Coordinator	Revisions, updates, annual fees for seaduckjv.org	5,000
RESEARCH AND MONITORING PROJECTS			
Integrating Fixed-Wing and Helicopter Survey Platforms to Improve Detection and Species Identification of North American Breeding Scoters	Canadian Wildlife Service	A 3-year project to evaluate geographic and annual variation and extent in the following parameters from both fixed-wing and helicopter survey platforms: 1- detection, 2 – species identification/composition, 3 – differences in availability bias between the two platforms. Goal is to provide information to aid in design of sea duck surveys, particularly for scoters, and to provide support for the review and possible reallocation of survey effort for the Waterfowl Breeding Population and Habitat Survey (Year 1 of a 3-year project)	115,000
Annual cycle distribution and movements of Pacific scoters; addressing gaps in population delineation of surf, white-winged, and black scoters	Alaska Dept Fish & Game	Satellite telemetry study to fill in gaps in assessments for 3 species of Pacific scoters – Alaska region (Year 3). Focus is on surf and white-winged scoters in 2017.	33,030
Wing tissue collection for sea ducks in North America (pop delineation + harvest)	USFWS	Collection of tissues from sea duck wings submitted for Parts Collection Survey. To be used for genetic and stable isotope analyses to determine breeding areas of harvested ducks (Year 3)	3000
Population monitoring and information needs for management and conservation of	University of Wisconsin	Addresses the need to determine population monitoring and information needs for management and conservation of sea ducks on	20,566

sea ducks on the Great Lakes		the Great Lakes. Project aims to develop and maintain a community of scientists, managers, administrators, and other stakeholders that share information and develop action items aimed at increasing the efficiency and effectiveness of science-based conservation and monitoring of sea ducks using the Great Lakes.	
Improving our understanding of the population structure and harvest composition of American common eiders in the U.S. and Canada	USGS	Project will complete an assessment of the genetic structure of American common eiders across their breeding range to determine whether it's appropriate to manage them at the population or sub-population level. Project builds on previous genetic assessments and utilizes feather samples from sport-harvested eiders (from wing bees) and feathers from breeding areas throughout their range (Year 1 of a 3-year project)	35,783
Computer Vision and Machine Learning for Automated Detection and Classification of Sea Ducks from Digital Aerial Imagery	USFWS	This project will advance the application of computer vision and machine learning methods to automated detection and classification of sea ducks and other waterfowl from digital aerial imagery.	20,000
Atlantic and Great Lakes Sea Duck Migration Study:			
Data mgt and mapping services	BiodIversity Research Institute	Data mgt and mapping services for Atlantic and Great Lakes Sea Duck Migration Study (ongoing)	8400
Migration patterns, habitat use, food habits, and harvest characteristics of long-tailed ducks wintering on Lake Michigan	USGS	Mark up to 20 adult female long-tailed ducks wintering in Lake Michigan to augment previous samples from Lake Ontario. Identify breeding areas and seasonally used habitats	26,768
Population delineation and winter habitat associations of long-tailed ducks and white-winged scoters in southern New England	University of Rhode Island	Determine population linkages for LTDU and WWSC wintering in SNE; determine resource use and movement patterns relative to offshore development (Year 2)	47,471