

Wildlife Restoration OPERATING GRANT FINAL PERFORMANCE REPORT

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF WILDLIFE CONSERVATION
PO Box 115526
Juneau, AK 99811-5526

Alaska Department of Fish and Game Wildlife Restoration Grant

GRANT NUMBER: AKW-C-2-2019

PROJECT NUMBER : P22.0

PROJECT TITLE: Information Management

PERIOD OF PERFORMANCE: July 1, 2018 to June 30, 2018

REPORT DUE DATE: Sept 1, 2019

PRINCIPAL INVESTIGATOR: Caleb Wylie

COOPERATORS: n/a

Authorities: 2 CFR 200.328
2 CFR 200.301
50 CFR 80.90

I. PROGRESS ON PROJECT OBJECTIVES DURING PERIOD OF PERFORMANCE

OBJECTIVE 1: Administration and Support

ACCOMPLISHMENTS:

- Participated in divisional management team meetings;
- Processed personnel evaluations for IM staff;
- Prepared program budgets and allocations for the statewide program of Information Management;
- Recorded and monitored expenditures;
- Produced budget projections and reallocated resources to meet program goals;
- Processed purchase requests for the equipment needs of the IM program;
- Generate big game harvest ticket distribution figures for vendors to determine their payment amount for harvest tickets distributed for the department; and
- Generated sealing information to determine payments to 67 fur sealers for sealing pelts for the department.

OBJECTIVE 2: Data Processing Services: Harvest Monitoring

ACCOMPLISHMENTS:

- Key punched approximately 99,469 general season overlay records for big game harvest tickets for the reporting period;
- Entered hunt locations for over 54,348 hunt reports for Drawing, Tier II, registration and general season big game hunts for the reporting period; Printed and mailed over 47,227 reminder letters to big game hunters this reporting period;
- Completed location coding for over 3,232 bear sealing records;
- Completed keypunching of over 3,249 bear sealing records;
- Posted over 158,182 preliminary harvest records for the regulatory year to our central server;
- Generated letters to vendors, requesting the return of all and unused harvest tickets for the regulatory year;
- Posted the preliminary big game (registration, drawing and tier II hunts) harvest summary reports on our Intranet web site;
- Catalogued and shipped 2,621 brown/grizzly teeth to Matson's lab for aging;
- Completed location coding for approximately 9,240 sealing records for furbearers;
- Produced the fur export and fur acquisition reports for Headquarters; and
- Received, cataloged and distributed approximately 128,000 general season big game harvest tickets to offices and vendors. An additional 25,221 were distributed electronically.

OBJECTIVE 3: Data Processing Services: User Support

ACCOMPLISHMENTS:

- Continuing development and maintenance of an Intranet server housing information management shared files to provide user access and support.
- IM has enhanced and maintained direct access to harvest data to DWC staff using the division's Intranet site. Staff are able to produce ad hoc reports, federal aid reports and summary statistics using a series of reporting tools developed by our programming staff.
- IM staff responded to software and hardware purchase/install requests.
- IM staff provided geographic information systems (GIS)/software technical support for individual DWC staff projects.
- IM provided increased access to historic images of data entered documents by linking Fur Sealing Certificates, Harvest Reports, Harvest Overlays, and Bear Sealing Certificates.
- IM continued working projects to provide better customer service and provide better reporting of hunter activity changing to a customer centric model of storing harvest reports
- IM continues to expand the use of Imaging/Data Capture to more efficiently

capture and archive harvest and management records.

OBJECTIVE 4: Research and Analysis: Geographic Information Systems

ACCOMPLISHMENTS:

- Adding and updating content of static and interactive map products for staff and the public through our intranet and the Internet;
- Provided GIS programming, training, analysis and technical support to division and cooperative projects;
- Maintain and continue to improve integrated Geodatabase for DWC master GIS data. Developed python scripts and workflow for updating file geodatabases for distribution and use with web pages;
- Continue develop and evolve editing, updating and deployment strategy.
- Provided maps for the hunt supplement papers and hunt regulation books;
- Continued upgrade of GMU and Uniform Coding System (UCU) data;
- Purchased, upgraded, maintained and administered the server-based GIS and related software including ArcGIS Enterprise (ArcGIS Server, Image Server, Portal, SDE, ArcGIS Online, OpenData) and the ArcInfo/ArcView concurrent (floating) licenses; Training other Department staff to assist and/or assume responsibility for some of these tasks;
- Maintained and updated GIS portion of IIS, and ArcGIS Server web environment to accommodate multi-divisional development and to comply with Department IT requirements;
- ArcGIS Server service and web development. Created and maintained several web applications to provide common services for the department and public. Continued conversion from Flex to JavaScript web pages. Continued development for mobile apps;
- Updating and expanding a department GIS Information web site (SharePoint) to provide staff information on software installation, troubleshooting, available data, training, FAQs, etc.;
- Continued to update all hunt maps, special area maps and associated web pages, as needed, and improve quality as new source files become available;
- Tested GIS workflow and conversion with new GIS software. Worked with ESRI staff to resolve issues;
- Responded to requests for information, data and maps from staff, public and other state and federal agencies;
- Developed tools to update and maintain geodatabases for wildlife telemetry and wildlife management areas.
- Developed tools and mobile applications to aid in wildlife and habitat data collection.
- Created maps, animations, and other products to assist biologists in monitoring and describing animal locations, movement, and habitat.

OBJECTIVE 5: Training

ACCOMPLISHMENTS:

- .NET training for 5 staff
- SQL training for 1 staff

II. SUMMARY OF WORK COMPLETED ON PROJECT TO DATE.

Summarized adequately in accomplishments

III. SIGNIFICANT DEVELOPMENT REPORTS AND/OR AMENDMENTS.

None

IV. PUBLICATIONS

No publications to identify.

V. RECOMMENDATIONS FOR THIS PROJECT

Continue project

Prepared by: Caleb Wylie