

FEDERAL AID ANNUAL RESEARCH 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: W-33

SEGMENT NUMBER: 12

PROJECT NUMBER: 22.0

PROJECT TITLE: Information Management

PROJECT DURATION:

REPORTING PERIOD: July 1, 2013 – June 30, 2014

REPORT DUE DATE: September 2, 2014

PRINCIPAL INVESTIGATOR:

WORK LOCATION: Statewide

I. PROGRESS ON PROJECT OBJECTIVES DURING LAST SEGMENT

OBJECTIVE 1: Administration and Support

OBJECTIVE 2: Data Processing Services: Harvest Monitoring

OBJECTIVE 3: Data Processing Services: User Support

OBJECTIVE 4: Research and Analysis: Technical Services

OBJECTIVE 5: Research and Analysis: Geographic Information Systems

OBJECTIVE 6: Training

II. SUMMARY OF WORK COMPLETED ON JOBS IDENTIFIED IN ANNUAL PLAN THIS PERIOD

ADMINISTRATION AND SUPPORT:

- 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 59 fur sealers for sealing over 1800 pelts for the department.

HARVEST MONITORING:

- Key punched approximately 107800 general season overlay records for big game harvest tickets for the reporting period;

- Entered hunt locations for over 58,900 hunt reports for Drawing, Tier II, registration and general season big game hunts for the reporting period;
- Printed and mailed over 54,000 reminder letters to big game hunters this reporting period;
- Sent letters to vendors regarding return of unused harvest tickets;
- Completed location coding for over 3,600 bear sealing records;
- Completed keypunching of over 3,600 bear sealing records;
- Added age information to approximately 1,360 of the bear sealing records;
- Posted over 158,900 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 1,469 brown/grizzly teeth to Matson's lab for aging;
- Completed location coding for approximately 10,300 sealing records for furbearers;
- Completed keypunching of over approximately 10,300 sealing records for furbearers;
- Produced the fur export and fur acquisition reports for Headquarters; and
- Received, cataloged and distributed approximately 160,300 general season big game harvest tickets to offices and vendors. An additional 11,205 were distributed electronically.

USER SUPPORT:

- 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 the 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 on a project to provide better customer service and provide better reporting of hunter activity over time by changing to a customer centric model of storing harvest reports
- IM continued to expand the use of Imaging/Data Capture to more efficiently capture and archive harvest and management records.
- IM enhanced end users ability to get request assistance when necessary by integrating a work request and tracking system into the DWC Intranet system.

GEOGRAPHICAL INFORMATION SYSTEMS:

- Created static and interactive map products to for staff and the public through our intranet and the Internet;
- Provided GIS programming, training, analysis and technical support to division and cooperative projects; presented Cartography workshop to department employees and at conferences;
- 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.
- Worked with other agencies and entities to establish standards and limit duplicate efforts. Shared information on procedural enhancements using GIS software and applications;
- Purchased, upgraded, maintained and administered the server-based GIS and related software including ArcSDE for MSSQL, ArcGIS Server, ArcGIS Online, and the ArcInfo/ArcView concurrent (floating) licenses;
- Designed, created, and maintained IIS, 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 a number of web applications to provide common services for the department and public. Continued conversion from Flex to Javascript web pages. Start development for mobile apps;
- Created and maintained a department GIS Information web site to provide staff information on software installation, troubleshooting, available data, training, FAQs, etc.;
- Trained other GIS staff on access and use of ArcGIS Server software;
- Wrote/modified ArcPad programs as needed to meet specifications for various field data collection projects. Provide technical support. Participate and provide programming, geoprocessing, data and field support for “aerial, double-blind line transect” bear survey;
- Developed python scripts and processed data for processing historical aerial bear survey for use by biometrician in creating new analysis. This is an ongoing project.
- Continued to convert both historic and new data, including remote sensed data, into ArcSDE;
- Continued to update all hunt maps, special area maps and associated web pages, as needed, and improve quality as new source files become available;
- Responded to requests for information, data and maps from staff, public and other state and federal agencies;
- Provided maps required by staff for meetings. Incorporated results of decisions into master files and updated web maps.
- Provided maps for the public via department info centers and web;
- Provided maps for the hunt supplement papers and hunt regulation books;

- Continued upgrade of GMU and Uniform Coding System (UCU) data. ;
- Tested GIS workflow and conversion with new GIS software Worked with ESRI staff to resolve issues;
- Worked with staff to coordinate the conversion of the GIS servers to virtual servers and the upgrade of the OS.
- Provided maps for special publications;

TRAINING:

- Online Training made available to staff for Microsoft SharePoint.
- Online Training made available for staff for C#

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