



OFFICE OF FISH AND WILDLIFE INFORMATION SYSTEMS

MONTHLY REPORT

May 2024
(April 16th, 2024 – May 15th, 2024)

Patrick Woerner, Geographic Information Systems Specialist
Kevin Blythe, Geographic Information Systems Specialist
Brian Henderson, Geographic Information Systems Specialist
Molly VanWieren, Geographic Information Systems Specialist

Temporary/Seasonal Employees: Joseph DeCeglia
Olivia Hrymoc

ADMINISTRATION

- The Office of Fish and Wildlife Information Systems (OIS) has 41 projects in progress and one new project requested through the GIS Project Request Form.
- OIS presented the [Freshwater Fishing Explorer](#) at the Fisheries Forum on May 2nd.
- OIS presented *Developing a Protocol for Using Multispectral Drone Imagery to Study Salt Marsh Vegetation* at the GIS Mapping Contest
- OIS staff presented three poster presentations ([Wildlife Management Area Explorer](#), [Saltwater Fishing Explorer](#), and *Developing a Protocol for Using Multispectral Drone Imagery to Study Salt Marsh Vegetation*) and one oral symposium presentation on Landscape Conservation Design entitled *A Brief Review of Landscape Conservation Tools in New Jersey* at the NEAFWA Conference.
- OIS is managing and coordinating the Landscape Project mapping update.
- OIS attended several meetings with Motorola on the new Computer-Aided Dispatch (CAD) System for the Bureau of Law Enforcement (BLE) and has developed patrol area delineations for inland and marine Conservation Police Officers. OIS is also engaged in GIS development and maintenance of various other GIS layers for the CAD.

GIS DATA DEVELOPMENT

Shellfish Aquaculture Lease Lot Data

- OIS continues to work with the Bureau of Shellfisheries to implement branch versioned editing on aquaculture lease lot and lease holder data.

Freshwater Fishing Opportunities and Access

- All the feature classes and metadata for the freshwater fishing regulations map application are complete pending BFF review. OIS is currently finalizing web map application components.

New Jersey Statewide Trails Dataset

- No update.

Diadromous Fish Habitat Mapping and Timing Restrictions

- OIS staff has finished analyzing the streams based off of known and potential fish species and their timing restrictions. OIS is in the process of prepping a web map for fisheries staff to review.

Wildlife Management Area Boundary (WMA) Alignment

- OIS staff scanned paper documents for 17 parcels on 4 WMAs and 7 parcels were mapped.

Landscape Project

- OIS continues to manage the Landscape Project mapping update in coordination with ENSP and a target public release date has been set for October 21, 2024, to coincide with the adoption of the new listing rule.
- Approximately 12% of the species/habitat components are complete.

Hard Clam (Estuarine) Survey Mapping

- No updates.

Wildlife Management Area System Inventory

- OIS staff continues to work through field collection data for several Wildlife Management Areas for inclusion in the WMA inventory data.

Law Enforcement CAD System

- OIS staff continues to meet with Motorola, Law Enforcement and BGIS to prepare various datasets to be added to Enterprise and loaded into the CAD system.

GIS ANALYSIS

Ocean Trawl Survey Environmental/Biological Analysis

- No update.

Habitat Change Analysis Project (HCAP)

- OIS kicked off the next round of analysis with Rowan University's Geospatial Research Lab (GEOLAB).

Encroachment Tracking on Wildlife Management Areas

- OIS staff met with Bureau of Land Management (BLM) and the Bureau of Law Enforcement (BLE) to walk them through the process of reviewing potential encroachments through a web map app developed by OIS. We will all meet again in a few months to discuss the results of that review and to streamline the process.
- NJFW staff will also test out a Survey123 application developed by OIS for tracking and resolving encroachments

CARTOGRAPHIC PRODUCTION

- No updates.

WEB MAP/APP PRODUCTION

Deer Disease Sighting Survey

- No updates.

Hunting & Trapping Explorer

- No updates.

Wildlife Management Area Explorer

- Updates were made to closures and restricted areas.

Saltwater Fishing Explorer

- No updates.

Freshwater Fishing Explorer

- No updates.

Conservation Focal Area Application

- No updates.

Marine Resources GeoHub

- No updates.

Shared Wildlife Health Information System (SWHIS)

- OIS staff continues to collaborate with Wildlife Futures Program (WFP) at UPenn and the Timmons Group on the development of SWHIS and a feature service that will include wildlife health events, including animal morbidity and mortality information.

Wild Turkey Brood Sighting Survey

- OIS worked with BGIS to get this survey released for 2024's season.

Turkey Permit Sales and Harvests Dashboard

- No updates.

Northeast Regional Conservation Priorities web application

- No updates.

Fishing and Hunting License Agent Locator web application

- Updates were made to the web app so the list of agents is accurate and up to date.

GPS/FIELD DATA COLLECTION

- OIS is seeking a GPS field technician do perform data collection on Wildlife Management Areas and other relevant projects.

GIS TECHNICAL GUIDANCE

- OIS staff responded to internal and external inquiries regarding various datasets and applications, including Landscape Project and the Hunting & Trapping Explorer.
- Staff approved requests for access to various documents on the SharePoint site.
- OIS staff is working on procurement of a large-format multifunction printer and scanner.
- OIS attended several meetings and is involved in GIS development and maintenance of a new Computer-Aided Dispatch (CAD) System for the Bureau of Law Enforcement (BLE).