



## **OFFICE OF FISH AND WILDLIFE INFORMATION SYSTEMS**

### **MONTHLY REPORT**

**December 2024**

**(November 16<sup>th</sup>, 2024 – December 15<sup>th</sup>, 2024)**

Patrick Woerner, Geographic Information Systems Specialist  
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### **ADMINISTRATION**

- The Office of Fish and Wildlife Information Systems (OIS) has 43 projects in progress and two new projects requested through the GIS Project Request Form.
- OIS is managing the update of the Landscape Project dataset and has submitted data and related applications for publication on 1/6/2024.
- OIS attended several meetings with Motorola on the new Computer-Aided Dispatch (CAD) system for the Bureau of Law Enforcement (BLE) and is engaged in mapping and GIS data development and maintenance related to the CAD system.
- OIS attended the quarterly NJDEP GIS Users Group Meeting.
- OIS attended the New Jersey Geospatial Forum (NJGF) General Meeting.
- OIS attended the AFWA Technology & Data Subcommittee Meeting that focused on Artificial Intelligence & Machine Learning.
- OIS finalized its federal grant budget for 2025.

### **GIS DATA DEVELOPMENT**

#### **Shellfish Aquaculture Lease Lot Data**

- OIS continues to review any edits to the current shellfish lease lot data and posts the edits for shellfisheries staff.

#### **Freshwater Fishing Opportunities and Access**

- Freshwater fishing regulations data is being prepped for publication and inclusion in the [Freshwater Fishing Explorer](#) application.

#### **New Jersey Statewide Trails Dataset**

- No updates.

#### **Diadromous Fish Habitat Mapping and Timing Restrictions**

- No updates.

#### **Wildlife Management Area (WMA) Boundary Alignment**

- OIS staff scanned the documentation for 5 parcels and mapped the boundaries of 2 parcels on 2 WMAs.
- Green Acres submitted a request for bids to survey several parcels that have not previously been surveyed with coordinates and may contain encroachments.

#### **Landscape Project**

- OIS continues to manage the Landscape Project mapping update in coordination with ENSP, Bureau of Freshwater Fisheries and Bureau of Marine Fisheries.

#### **Hard Clam (Estuarine) Survey Mapping**

- No updates.

#### **Wildlife Management Area System Inventory**

- OIS completed inventories of two southern Wildlife Management Areas, collecting GPS data on 95 assets. Of 123 WMAs, 100 have now been surveyed. Fourteen don't have infrastructure to map, and nine remain to be mapped. Approximately 2650 asset (signs, parking lots, boat ramps, etc.) have now been mapped.
- OIS is in the process of compiling the data over the past two years and conforming the schema to that of the Enterprise GIS data so it will be reflected in the WMA Explorer application.

#### **Law Enforcement CAD System**

- OIS continues to be engaged in mapping and GIS data development and maintenance related to the CAD system.

### **GIS ANALYSIS**

#### **Ocean Trawl Survey Environmental/Biological Analysis**

- No update.

## **Habitat Change Analysis Project (HCAP)**

- OIS met with Rowan GeoLab and is working on suggestions and edits for the dashboard being developed.

## **Tracking Encroachments on WMAs**

- An encroachment policy and resolution process with clearly defined roles for each organizational unit needs to be formalized by management in order for the tool to be effectively developed and implemented by NJFW.
- Potential encroachments that OIS identified are going through review by BLM staff.

## **CARTOGRAPHIC PRODUCTION**

- No updates.

## **WEB MAP/APP PRODUCTION**

### **Fishing & Hunting License Agent Locator**

- Several new License Agents were updated.

### **Deer Disease Sighting Survey**

- No updates.

### **Hunting & Trapping Explorer**

- OIS completed updates having to do with hunting on State Parks and Forests land.

### **Wildlife Management Area Explorer**

- No updates.

### **Saltwater Fishing Explorer**

- No updates.

### **Freshwater Fishing Explorer**

- No updates.

### **Conservation Focal Area Application**

- OIS is awaiting ENSP for information on updates on State Wildlife Action Plan mapping components.

## **Marine Resources GeoHub**

- OIS continues to update this internal application upon request and as necessary.

## **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**

- No updates.

## **Turkey Permit Sales and Harvests Dashboard**

- No updates.

## **Northeast Regional Conservation Priorities web application**

- No updates.

## **Upland Bird Stocking Areas**

- OIS updated the stocking areas and schedule to reflect closures due to wildfires.

## **Landscape Project ArcGIS StoryMap**

- OIS staff completed updating the existing Landscape Project StoryMap to an ArcGIS StoryMap for the release of the latest version of the Landscape Project.

## **Landscape Project Experience Builder**

- OIS staff has created an experience builder to display all of the landscape data.

## **Habitat Conservation Explorer**

- A new Habitat Conservation Explorer StoryMap was developed to serve as an umbrella page bringing together four separate but related projects: the New Jersey Landscape Project, Conservation Focal Areas, Connecting Habitat Across New Jersey (CHANJ), and Northeast Regional Habitat Conservation Priorities in New Jersey.

## **GPS/FIELD DATA COLLECTION**

- GPS data collection of WMA infrastructure continued. See Wildlife Management Area System Inventory above.

## **GIS TECHNICAL GUIDANCE**

- OIS staff responded to internal and external inquiries regarding various datasets and applications, including the Landscape Project and the Hunting & Trapping Explorer.