

Marine Resources Administration Monthly Report

APRIL 2022

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****MARINE FISHERIES****

ASMFC/MAFMC/COOP/NOAA

- Administration staff submitted NJ's compliance report for bluefish. Some noteworthy highlights include in 2021, the commercial gillnet fishery exceeded its gear quota, but NJ did not exceed its total state commercial quota, recreational catch and harvest continued to be very low, and on a coastwide basis, recreational harvest exceeded the allowable catch limit (RHL).

MEETING SUMMARIES

- **Atlantic States Marine Fisheries Commission-ASMFC (TC, SAS, Boards)**
 - The ASMFC Horseshoe Crab Plan Development Team (PDT) met via webinar on April 7 to review the Horseshoe Crab Adaptive Resource Management (ARM) Revision changes and to discuss options/items to include in Addendum VIII to the Horseshoe Crab Fishery Management Plan. The Addendum was initiated by the Horseshoe Crab Management Board at its January 2022 meeting when it accepted the use of the ARM Revision for management use. A memo summarizing the PDT discussion and recommendations will be presented to the Board at its meeting in May.
 - Administration staff participated as a reviewer on the NRCC Assessment Oversight Panel (AOP) for management updates of butter fish and squid (Illex). Given the straightforward nature of the proposed update of the butterfish assessment, the panel recommended an update that is delivered directly to the MAFMC SSC. The review for Illex was more complicated, and in the end, the panel recommended direct delivery of a data update to the SSC. There is no accepted assessment model or reference points complicating management. Additionally, the AOP concurred with the lead assessment scientist that, given the short life span of this squid (~6 months), moving to annual, rather than biennial, specifications process could be advantageous.
 - Administration staff participated in a meeting of the bluefish working group. Main topics of discussion centered on finalizing many data inputs for the assessment model. The WG is hoping to finalize all data inputs within the next ~4 weeks, so that modelling can begin. The assessment review is scheduled for November.
 - Administration staff participated in a meeting of the harvest control rule subgroup on modelling to address a few remaining questions as to how models in development can address management questions necessitated by the HCR process. The main topic of discussion focused on how to calculate an OFL associated with various biomass conditions, using just SSBmsy and the OFL from the most recent assessment. Several alternatives, with their pros and cons, were discussed. The group agreed to send a proposal to the SSC HCR subgroup for their input.
 - Staff participated in a webinar of the ASMFC's Shad and River Herring Plan Review Team on Wednesday, April 6th. The reviewers went over the 2020 fishing year Shad and River Herring Compliance report to discuss drafts updates and state compliance. All states, including New Jersey's COOP and Atlantic Coastal reports, were found to be in compliance and the TC will recommend to the Board the compliance reports be approved at the May meeting.
- **Miscellaneous**
 - On April 22, Staff attended a meeting of the Atlantic Coast Fish Habitat Partnership, Science and Data Committee. A summary of the ACFHP geography, subregions, and priority habitats was provided, then the current strategic plan was reviewed including a description of the geography, metrics, and scoring that went into the fish habitat conservation maps. The Committee discussed a request from the ACFHP Steering Committee to consider Diversity, Equity, Inclusion, and Justice (DEIJ) quantitative data that could help the guide the Steering Committee when setting priorities for their next Strategic Plan. The Committee then reviewed the EPA's Environmental Justice Screening and Mapping Tool (EJScreen).

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INDEPENDENT FISHERIES

• Delaware Bay Tagging

- During 15 trips in 2022, 70 striped bass, 11 American shad, and 1 Atlantic sturgeon were tagged and released. Scale samples were taken from all striped bass and genetic samples were taken from the American shad and Atlantic sturgeon. Otoliths and stomach samples were collected from one additional striped bass.

• Delaware River Seine Survey

- Data from the Delaware River Seine Survey was summarized for the annual striped bass compliance report. During the 2021 sampling season, 191 seine hauls were performed, catching 299 age zero striped bass, producing a whole river geometric mean CPUE index of 0.67. This ranks as the 29th highest index in the 42-year time-series and is below both the time-series average (1.03) and the average of the last ten years (1.07). Young-of year (yoy) striped bass occurred in 77 out of the 191 samples taken (40%) with individual catches ranging from 0 to 31 bass. There were 23 yearling striped bass caught for a geometric mean CPUE index of 0.074. The number of yearlings ranked 31st in the time-series.

• Eel Surveys

- The 2022 Glass Eel Survey completed sampling for the year. Over a ten-week period from February 10 through April 14, the fyke net in Patcong Creek was tended 41 times. A total of 174,100 eels were caught, averaging 4,246 eels per haul. The CPUE (geometric mean) for 2022 was 1,429.7, which ranks 2nd in the 21-year time-series of this survey. Individual lengths and weights were collected from 2,392 glass eels. The average length was 58.21mm, average weight was 0.164g and average pigmentation stage was 1. In addition, the fyke net caught 176 green eels, averaging 95.30mm in length with an average weight of 1.127g per eel. During the same time period, the artificial collector in Nacote Creek was tended 37 times. The total number of eels caught was 1,172 glass eels, which is below the 12-year time-series average of 4,457 eels per year.
- The 2022 Yellow Eel Pot Survey began on April 18. A protocol is currently being developed so that staff can begin tagging with PIT tags, sexing eels and checking for the presence of the swim bladder parasite *Anguilicola crassus* as soon as possible.

• Herring Surveys

- In April, the herring survey continues to get steady catches of alewife herring in both the Great Egg Harbor and Maurice Rivers. So far, total catches for this year on both rivers have been well above average. The first blueback herring of the year was caught at the end of April on the Maurice River, which is typical as any blueback catches typically lag behind the initial alewife run by a few weeks.
- Staff met with a biologist from the Bureau of Freshwater Fisheries (BFF) and the town engineer and DPW Administrator from the town of Long Branch on site to discuss ongoing issues with the Lake Takanassee Fish Ladder. BFF staff requested earlier in the spring that a board be added to the lake outflow to increase the amount of flow into the fish ladder. The extra board provided more flow through the fish ladder but has raised the lake sufficiently to cause flooding during significant storm events. The town DPW is requested to remove the additional board and have Fish and Wildlife staff reevaluate the flow in the ladder to see if it is useable. BFF staff will be revisiting the ladder next week to assess the water level, but has also recommended the town apply for an emergency water lowering permit that will allow the DPW to adjust the water level as needed to compensate for storm events.

• Ocean Trawl

- The April Ocean Trawl Survey was completed in 7 days on April 14th. Bottom temperatures were slightly colder than usual compared to recent years by about 1-2 degrees. Catches were dominated

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by skates, spiny dogfish, and horseshoe crabs, however diverse tows of adult American shad and river herring were also common. Winter flounder catches continue to diminish, with very few fish encountered much older than young of year. 3 Atlantic sturgeon were caught and tagged and an abundance of samples were collected of Atlantic herring and longfin squid for pathogen monitoring as well as American shad and river herring for NYDEC for genetic stock analysis.

- **Sturgeon Receivers**

- Staff deployed the 19 acoustic receivers in Delaware Bay as part of the Bureaus annual Atlantic Sturgeon Acoustic Telemetry project. All receivers were successfully deployed and a website notice and listserv email went out alerting boaters to be aware of the research buoys and with a summary of last year's detections.
- Staff interviewed with a reporter from NJ.com in regard to sturgeon in the Delaware Basin. Topics of discussion included the old roe processing town of Caviar NJ, sturgeon life history, sturgeon monitoring & management, and species recovery.

DEPENDENT FISHERIES

- **Access Point Angler Intercept Survey-AP AIS**

- The draw for April consisted of 91 site assignments and 3 head boat assignments that yielded a total of 259 intercepts (52 SH, 20 CH, 157 PR, 30 HB).
- Staff continue to make updates to the Vessel Directory and Site Register in preparation for Wave 4.
- April mileage is being validated and submitted for reimbursement; March mileage reimbursements have been received.
- Wave 2 sampling ended with a total of 290 intercepts (71 SH, 20 CH, 162 PR, 37 HB).
- The fishdump for March was reviewed and comments/edits were submitted.

- **For-Hire Telephone Survey-FHTS**

- There were 96 vessels drawn for the month. Roughly 46 responded resulting in a response rate of 48%. 33.8% of vessels reported being inactive for the month. Number of trips reported continued to be low as is the norm for wave 2 in New Jersey. Staff continued with vessel directory maintenance and working on the renewed / new HMS permits.

- **NJ Saltwater Recreational Registry Program-NJSRRP/Volunteer Angler Survey-VAS**

- As of April 29, 2022, there were 57,859 individuals and 500 for-hire vessels registered with the New Jersey Saltwater Recreational Registry Program (NJSRRP) for 2022. (Last month: March 31, 2022, there were 37,687 individuals and 353 for-hire vessels registered for 2022).

- **Striped Bass Bonus Program-SBBP**

- Staff finalized data from the 2021 Striped Bass Bonus Program. The 2021 bonus harvest was 41,867 lbs. from 6,457 fish. This represents 19.4% of the quota and is the 6th highest bonus harvest (by weight) in the time series. By numbers of fish, the 2021 bonus harvest is the highest in the time series. Data from 2021 SBBP logs were submitted to Maryland for use in the upcoming stock assessment update.
- The 2022 Striped Bass Bonus Program will open on May 15, 2022. The Division has received over 3,498 applications from individual anglers since opening the application period. In addition, 104 party/charter boats have been enrolled in the SBBP so far.

- **Tournament Sampling**

- Preparations have begun for the 2022 tournament & party/charter boat sampling program which will begin in May.

OUTREACH

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- The final two drafts of the 2022 Marine Digest were received from the editor. Final comments and edits were submitted by staff. The Digest is expected online and in stores any day now.
- Staff presented a study of contemporary size structure truncation in weakfish in Delaware Bay and New Jersey to the Fisheries and Aquatic Invasive Management Symposium during the 77th Annual Northeast Fish and Wildlife Conference on April 4. The study utilized data from NJ DEP's ocean trawl survey and Delaware DNREC's Delaware Bay trawl surveys to document the relative disappearance of the larger and older individuals in the local weakfish population within the last two decades.
- Administration staff gave a talk to a group of Biological Oceanography students at Rider University. The talk focused on fisheries management in NJ, primarily through the lens of striped bass biology and management. The talk appeared to be well received.

ENVIRONMENTAL MATTERS

- **Wind Energy**
 - Bureau of Ocean Energy Management Coordination
 - Staff continued to coordinate with other state and federal entities on the Bureau of Ocean Energy Management (BOEM) Central Atlantic (CA) Planning Area and hosted a meeting on April 11. Staff reached out to the state fisheries office in North Carolina to include this state in our collaboration.
 - Staff attended a meeting on April 11, hosted by BOEM, to review elements of the draft Federal Survey Mitigation Implementation Strategy for Offshore Wind Energy Development.
 - Staff attended a BOEM open house at the Mid Atlantic Fisheries Management Council Meeting on April 5.
 - Staff attended a multi-state meeting to begin planning state-hosted stakeholder meetings for the BOEM draft Guidance for Fishery Mitigation for Offshore Wind on April 25.
 - Staff continued to work on the New Jersey Research and Monitoring Initiative (RMI).
 - Meetings were held weekly to discuss projects that are being considered with the internal RMI team.
 - Staff attended biweekly Steering Committee meetings to provide information regarding projects in development.
 - Meetings were held with researchers to discuss preproposals.
 - Staff continued to develop concepts and proposals for funding (acoustic telemetry, eDNA, recreational fishing economics, NJ Ocean Trawl mitigation). Staff requested review of the Acoustic Telemetry Proposal from other MRA staff, state partners, and NOAA fisheries to assist the Steering Committee in decision-making.
 - MRA staff assisted the Division of Science and Research and the Office of Permitting and Project Navigation to improve and update a website for the RMI.
 - One new research project was approved for funding by the Steering Committee, Socioeconomics of Recreational Fisheries.
 - Staff continued to coordinate with Atlantic Shores Offshore Wind (ASOW) and Ocean Wind (OW).
 - Staff attended a tour of the ASOW survey vessel in Atlantic City on April 26. At this opportunity, staff learned that the vessel always carries a Protected Species Observer, and met with several ASOW staff.
 - Biweekly permitting meetings were held with OW 1, OW 2, and ASOW.
 - Staff provided comments on a GP 23 request related to cable-route survey work for OW 1, and provided OW's construction contractor, HDR, with contact information for aquaculture lease holders in the Barnegat Bay.

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- Staff continued to coordinate internally and held the MRA offshore wind team meeting on April 11, and a planning meeting for reviews on April 27.
- Staff continued to seek learning opportunities and review current literature on offshore wind and marine resource, including a new publication on the response of demersal fish and invertebrates to Block Island Wind Farm.
- Staff continued to coordinate with regional groups dedicated to offshore wind and fish and wildlife.
 - Staff participated in the monthly Interstate Wind/Fisheries call on April 29.
- Staff gave an oral presentation, Managing fisheries and offshore wind: Identification of resources of concern and effective collaboration for mitigating impacts, at the Northeastern Association of Fish and Wildlife's annual meeting on April 4.
- Staff attended the Mid Atlantic Fisheries Management Council meeting on April 5, which included presentations on offshore wind from researchers, developers, and BOEM. Following presentations, staff heard public comments from fishermen who were unsatisfied with Ocean Wind's response to gear loss claims. The following day, staff met with the Fisheries Manager for the New York Energy Research and Development Authority regarding how NJ and NY can work together to mitigate gear loss-related impacts.
- Staff continued to work with staff in the AC's office to develop poster maps for Department staff working on offshore wind.

ADMINISTRATION/MISCELLANEOUS

• Regulatory/Legislative

- Notice of Administrative Change (NOAC)
 - At their April 8, 2022, meeting, the NJ MFC voted to approve modified management measures for the 2022 recreational summer flounder, scup and black sea bass fisheries. On April 29, 2022, three NOACs implementing the measures, respectively, were filed with the Office of Administrative Law. The new rules are effective upon filing.
- Rulemakings
 - The Gear Modifications via NOAC Rulemaking Proposal is under review with the Department's OLA. The target filing date per the NJ Register schedule is July 18, 2022, for an effective target date of January 2023.
 - MFA rule team continues to develop a new multispecies rule proposal amending N.J.A.C. 7:25-18.5A Artificial reefs, along with other subchapters and sections pertaining to marine fisheries. Marine Fisheries-related rules will be reorganized under N.J.A.C. 7:25B. The target proposal filing date is November 2022.
 - A new rulemaking proposal is underway to allow modifications via NOAC to comply with any management decision passed within any fishery management plan authority. The target filing date is September 2022.
- Implementation of new rules
 - Commercial Crab pot/trot line and Delaware Bay Dredge License transfers are proceeding in accordance with the newly implemented rules at N.J.A.C. 7:25-14.4.
 - The modified management measures for the 2022 recreational summer flounder, scup and black sea bass were announced via listserv email to all individuals included on the Fish and Wildlife distribution list on May 3, 2022. The updated measures were also posted to the Fish and Wildlife website.
- Legislative Activity – State

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- A3847 – Exempts shellfish aquaculturists with commercial shellfish aquaculture license from law prohibiting taking of shellfish on Sunday; requires submission of annual shellfish harvest report. 05/2/22—Proposed for introduction.
- SR67 - Urges Atlantic States Marine Fisheries Commission to continue prohibiting harvest of female horseshoe crabs. 3/7/2022 Introduced; 3/24/2022 Resolution passed in Senate by voice vote and filed with the Secretary of State.
- A3777 – Authorizes creation of the NJ Maritime Museum license plates. 5/2/2022 Introduced and referred to Assembly Transportation and Independent Authorities Committee.
- A2315 – Allows commercial farmer to be awarded reasonable costs and attorney fees for defending against bad faith complaints under "Right to Farm Act." 3/24/2022 Passed in Assembly 75-0-0.

○ Legislative Activity – Federal

- S2372 – Recovering America's Wildlife Act of 2022: To amend the Pittman-Robertson Wildlife Restoration Act to make supplemental funds available for management of fish and wildlife species of greatest conservation need as determined by State fish and wildlife agencies, and for other purposes. 7/15/2021 Introduced in Senate and referred to the Committee on Environment and Public Works; 4/27/2022 reported by Committee, Placed on Senate Legislative Calendar
- HR3952 – NOAA Chief Scientist Act: To strengthen the role of the Chief Scientist of NOAA in order to promote scientific integrity and advance the Administration's world-class research and development portfolio. 4/5/2022 mark-up session held and reported by Committee on Science, Space, and Technology.
- HR6785/S3664 – Right Whale Coexistence Act of 2022: To assist in the conservation of the North Atlantic right whale by supporting and providing financial resources for North Atlantic right whale conservation programs and projects of persons with expertise required for the conservation of North Atlantic right whales, and for other purposes. Introduced and referred to the House Committee on Natural Resources 2/18/2022; referred to Subcommittee on Water, Oceans, and Wildlife 3/2/2022; Subcommittee hearings held 3/17/2022. 3/22/2022 Ordered to be reported by Committee on Commerce, Science, and Transportation.
- S497/HR3128 – American Fisheries Advisory Committee Act: A bill to establish the American Fisheries Advisory Committee to assist in the awarding of fisheries research and development grants, and for other purposes. This bill directs the National Oceanic and Atmospheric Administration (NOAA) to establish the American Fisheries Advisory Committee to advise on an existing grant program to address the needs of fishing communities, optimize economic benefits by building and maintaining sustainable fisheries, and increase opportunities to keep working waterfronts viable. Senate Commerce, Science, and Transportation Committee filed a written report 2/8/2022. 3/10/2022 Passed in Senate without amendment by Unanimous Consent; 4/26/2022 Passed House 404-11.
- HR6987 - To establish programs to reduce the impacts of vessel traffic and underwater noise on marine mammals, and for other purposes. 3/8/2022 Introduced in House and referred to Committee on Natural Resources; 3/11/2022 referred to Subcommittee on Water, Oceans, and Wildlife; 3/17/2022 Subcommittee hearings held.

● Scientific Collection Permits

- Fifty scientific collecting permits have been issued in 2022. An additional four have been reviewed and will be processed upon receipt of all required materials.

● HOT TOPICS/Miscellaneous

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- Staff conducted several candidates for three summer worker position openings. Candidates were selected and filled out their employment paperwork. One candidate was given a start date of April 23rd while the other two are still awaiting approval.

****SHELLFISHERIES****

MRA Outreach, Education, and Communications

- **MRA Website Committee**

- The MRA Website Committee members continue to work on updating and creating content for various MRA webpages.
- Staff worked with the Bureau Outreach Coordinator and website team to provide feedback on the Shellfish enhancement pages and content for the redesigned New Jersey DEP Fish & Wildlife website.

Offshore Wind, Restoration, Enhancement, Mitigation, and Habitat

- **Restoration and Enhancement**

- Staff continues conversations with New Jersey based hatcheries to inquire about the availability of hard clam seed for this year. Staff will continue to work with these hatcheries to get quotes and move forward with hard clam seed planting efforts when possible.
- Hard clam seed has been difficult to obtain over the last few years due to slow growth and availability

- **Living Shorelines**

- Staff visited a potential living shoreline site to give feedback to staff from the Conserve Wildlife Foundation of New Jersey. Staff will continue to coordinate with Conserve Wildlife Foundation staff as funding is sought after and permit applications are submitted.
- Staff attended a meeting held by the American Littoral Society to discuss their plans to apply for the NFWF Coastal Resiliency Fund grant opportunity to fund a series of living shoreline projects along the Atlantic coast of NJ. Staff will continue to work with ALS staff as plans are developed.

- **Shell Recycling Program**

- Staff met with the Jetty Rock Foundation's Environmental Coordinator to discuss what the Foundation can assist with in 2022 to advance the Shell Recycling Program. Jetty is the content/media creation partner of the Shell Recycling Program. Jetty designed the Shell Recycling Program logo, as well as all promotional materials. Jetty will continue to produce media, signage, apparel and media content for the program moving forward.
- Staff attended two outreach events to engage with the public on shell recycling. The Stockton University Atlantic City Community Day Clean Up and Party in the Park and the Atlantic County Utility Authorities (ACUA) Earth Day Festival. Both events provided an excellent platform to engage with the public on the Shell Recycling Program and allow for them to see the role they can play in environmental stewardship. Staff will continue to look for other outreach and event opportunities in the future.
- Staff participated virtually in a shell recycling panel at the Northeast Aquaculture Conference and Exposition (NACE). Staff gave a brief overview of the MRA Shell Recycling Program, and then participated in the Q&A panel.
- Staff participated in the monthly shell recycling working group meeting to discuss the status of shell recycling in New Jersey. The group name was decided upon at the meeting and it will now

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be known as the Shell Recycling Partnership. The meeting was held by the Barnegat Bay Partnership and representatives from NGOs, Academia, Industry, State and Municipal government were present. The group has developed an outline for what it is looking to accomplish and will work towards developing a document outlining best management practices for shell recycling in the State of New Jersey.

- **Environmental Review/ Waterfront Development**

- Staff reviewed and provided comments to DLRP staff on several waterfront development permit application and modification requests. These applications include:
 - A shoreline stabilization project in Seaside Park along an existing marina.
 - A dredging project at Beach Creek Marina in Cape May County.
 - A remediation project in the Lower Passaic River.
 - The installation of a gas main under the Maurice River in Cumberland County.
 - A maintenance dredging project in Newark Bay

Aquaculture and Shellfish Leases

- **Shellfish Aquaculture Working Group – Commercial Shellfish Aquaculture Website Committee**
 - Bureau of Shellfisheries staff and representatives from various agencies involved in commercial shellfish aquaculture permitting, regulations, and outreach continue to work on finalizing the NJ Commercial Shellfish Aquaculture website design and content.
- **NJEMS Shellfish Lease Development**
 - Staff continue to provide data, testing, and feedback on the development of incorporating the leasing database into the NJEMS program. Staff is also working with the Bureau of GIS to allow GIS to input data directly into the NJEMS system.

State Fisheries and Quota Management

- **Delaware Bay Oyster Tonging Fishery**
 - The tonging season ended April 30.
 - The total harvest reported by tongers was approximately 1,588 bushels, with most of the harvest from Nantuxent Cove (~91%).
 - A total of 2,200 tags (\$4,400) sold across eleven tongers, all of whom reported harvest. There were 400 tags sold in March.
- **Delaware Bay Oyster Fishery – Direct Market Harvest Program 2022**
 - The starting total quota before an intermediate transplant occurs was 76,000 bushels (bu.) of oysters.
 - While the fishery is not overfished and remains sustainable, this year's initial quota is a reduction of 15.3% relative to 2021 (89,816 bu.) due to natural fluctuations in the oyster population from numerous environmental factors. One main driving factor is having less than ideal spat recruitment in the last 3-4 years affecting overall and market size abundance.
 - Other items of note are listed below:
 - 10 Participants, 7 active
 - 80 Vessels, 32 purchased tags & reported catch
 - Consolidated Vessels: 76
 - Non-Consolidated Vessels: 4
 - 950 bushels 1st Quota
 - Tags sold:
 - Singles 6,448
 - Cages(x24) 998 (23,952)

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- Total 30,400
 - Revenue to date: \$60,800
 - Season began April 4 & closes November 25
 - Weekly Harvest & Dealer Reports required
- **2022 Intermediate Transplant Program (ITP)**
 - Bureau staff conducted the ITP from April 25 – May 11, 2022.
 - Staff selected **four transplant recipient sites**, monitored the harvest and planting by the **two participating fishing vessels**, calculated estimates for the deck loads, and collected and processed samples to obtain volumes and percentages for oysters, boxes, and cultch. The percentage and volume of oysters per sample is used to calculate how many oysters were moved per deck load and overall.
 - Transplant fee \$3 per bushel, paid for by the industry's self-imposed tax of \$2 per bushel via bushel tag purchases.
 - The ITP moved the following bushel totals from the transplant beds to the recipient harvest beds:
 - 7,900 bushels from the Low Mortality region to Shell Rock
 - 2,700 bu. moved from the Very Low Mortality region to Upper Arnolds
 - 18,900 bu. moved from the Medium Mortality region to two sites on Bennies Sand.

Surveys/Laboratory

- **Delaware Bay Trawl Survey**
 - Staff sampled all 11 sites on 5/5 and 5/8/22 to launch the 2022. Staff digitized the data sheets, created the 2022 database, and entered data. The survey will run from April thru October after which the data will be processed, and annual performance report written.
- **Dermo Disease Monitoring**
 - Staff worked alongside Rutgers Haskin Lab staff and successfully sampled oysters from the Delaware Bay seed beds to monitor the oyster disease dermo on 4/25/22. This survey launched this project's field season which will be conducted through November.
- **Shell Plant and Intermediate Transplant Site Monitoring**
 - On 4/25, staff also monitored enhancement sites from projects conducted by the Bureau from the previous two years. These sites include the Intermediate Transplant Program and the Shell Plant Program. Sampling will be conducted monthly through November. Staff worked with Rutgers Haskin Lab staff.

Buildings, Grounds, Vessels, and Vehicles

- **Boat Maintenance**
 - Bureau staff continue to maintain the R/V James W. Joseph and R/V Zephyrus by performing regular maintenance, repairs, and equipment upgrades as necessary.
- Bureau staff continue to maintain state vehicles with routine and scheduled service.

Administrative/Miscellaneous

- **License Sales**

License sales for the Delaware Bay Office were \$34,742.00 in April 2022. Direct Market oyster tag sales made up about 85% of sales.