Massachusetts Bays

2026 Assessment of Coastal Resources and Stressors

October 2026



Prepared for:

Massachusetts Bays NATIONAL ESTUARY PARTNERSHIP

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Executive Summary

The 2026 Massachusetts Bays Assessment of Coastal Resources and Stressors (ACRS) represents the latest update to the original 2012 Estuarine Delineation and Assessment (EDA1) and its subsequent 2017 update (EDA2). Authorized under Section 302 of the Clean Water Act and administered by the U.S. EPA, the Massachusetts Bays National Estuary Partnership (MassBays) serves 50 coastal communities divided into five subregions across 800 miles of coastline.

The 2026 ACRS provides updated information for **68 coastal assessment units** on coastal ecological resources, environmental stressors, and social metrics. The results of this study are summarized graphically in Sections 3.2-3.4, provided in tables in Appendix A, and can be viewed via the 2026 Massachusetts Bays Assessment of Coastal Resources and Stressors (ACRS) Viewer.

Category	Key Metrics	2026 New and Revised Metrics
Resource Metrics	Salt marshes, eelgrass beds, tidal flats, rocky intertidal shores, sandy beaches/dunes, shorebird habitats, shellfish habitat, diadromous fish habitat, and protected open space.	**Diadromous Fish:** Expanded to include new (2025) spawning habitat data. **Protected Open Space:** Incorporated MassGIS 2025 conservation parcel data.
Stressor Metrics	High-intensity land use, annual stormwater discharge volumes, population density, wastewater discharges, marinas, mooring fields, historic dredging, and seawalls.	**FEMA VE Flood Zones:** Areas prone to 1% annual floods and breaking wave forces. **Expanded 303(d) Impairments:** New Dissolved Oxygen and Estuarine Bioassessment impairments. Nutrient impairments now include Total Nitrogen and Total Phosphorus. Bacteria now includes Enterococcus and *E. coli*. **Discharge Sources:** Added Combined Sewer Overflows (CSOs) and active NPDES sites.
Social Metrics	Public beach access, beach closures, and coastal boating access.	**Coastal Beach Access:** Replaced older public access site metrics with Public Beach Area and Public Beach Coastline (% of total coastline length) metrics.

Recommendations/Next Steps: The following are recommended as data priorities for future ACRS iterations or addenda:

1. **Beach Parking Data:** While beach length and area are tracked, true public accessibility requires data on parking space capacity, which requires data compilation from 50 municipalities, MADCR, the Trustees of Reservations, and the National Park Service.
2. **Kelp and Rockweed Mapping:** Region-wide seamless polygon layers for canopy-forming algal beds are currently under development and are mandated for completion by 2030 under Massachusetts Executive Order No. 618.
3. **Embayment Flushing:** Development of a region-wide data set and methodology for calculating embayment flushing is recommended as a key next step to refine the usefulness and robustness of the ACRS analyses.

1. Project Background

The Massachusetts Bays National Estuary Partnership (MassBays) is one of 28 programs in the National Estuary Program System, which is authorized by Section 302 of the Clean Water Act and administered by the U.S. Environmental Protection Agency. The MassBays planning area covers over 800 miles of coastline along Massachusetts and Cape Cod Bays and serves 50 coastal communities from Salisbury, on the New Hampshire Border, to Provincetown at the tip of Cape Cod (Figure 1). The planning area is divided into five subregions: Upper North Shore, Lower North Shore, Metro Boston, South Shore, and a portion of Cape Cod.

Report History

- In 2012, MassBays published the first **Estuarine Delineation and Assessment (EDA1)**, which defined and characterized estuarine embayments within the MassBays planning area using ecosystem-based landward and seaward boundaries, and metrics for which data were available across the planning area.
- A 2017 update (**EDA2**) provided updated data and included new assessment areas for sections of the MassBays region which were not delineated as embayments, but which represent the near-shore health of the Bays (e.g., beach and rocky intertidal habitat). EDA2 also added several new metrics for region-wide and embayment-specific resources and stressors, and added a category of metrics for socioeconomic coastal resources.
- This 2026 report represents the latest update to the original EDA1 and has been renamed the **Massachusetts Bays Coastal Region Assessment (ACRS)**. This report provides updated information on the 68 assessment units presented in EDA2, while also providing the following new and revised metrics:
    - **Protected and Recreational Open Space**, based on parcel data from MassGIS with purpose code of "C" (conservation), B (Conservation/Recreation), F (Flood Control), W (Water Supply Protection) or Q (Habitat).
    - **Diadromous Fish Spawning Habitat**, based on new (2025) data on diadromous fish spawning habitat extent from the MA Division of Marine Fisheries.
    - **Areas Prone to Flooding**, based on FEMA Velocity Zones (areas prone to inundation by 1% annual chance floods and the destructive force of breaking waves).
    - **303(d) Impairments:**
        - The list of nutrient-related impairments from the *Massachusetts Integrated List of Waters* has been expanded to include Total Phosphorus and Total Nitrogen.
        - Bacteria-related impairments (previously only for Fecal Coliform) have been expanded to include *Enterococcus* and *E. coli*.

- New impairment categories for Dissolved Oxygen and Estuarine Bioassessments have been added.

- **Discharge Sources:** Added new stressor metrics for Combined Sewer Overflows (CSOs) and active NPDES sites.
- **Coastal Beach Access Data.** New metrics include public beach area (% of watershed) and public beach coastline (% of coastline in assessment area).

- The data presented in this report can be viewed in the **2026 Massachusetts Bays Assessment of Coastal Resources and Stressors (ACRS) Viewer**
- For additional exploration of coastal water quality and habitats in the MassBays region, please see the **MassBays Ecohealth Tracking Tool**.



Mill Creek, Sandwich

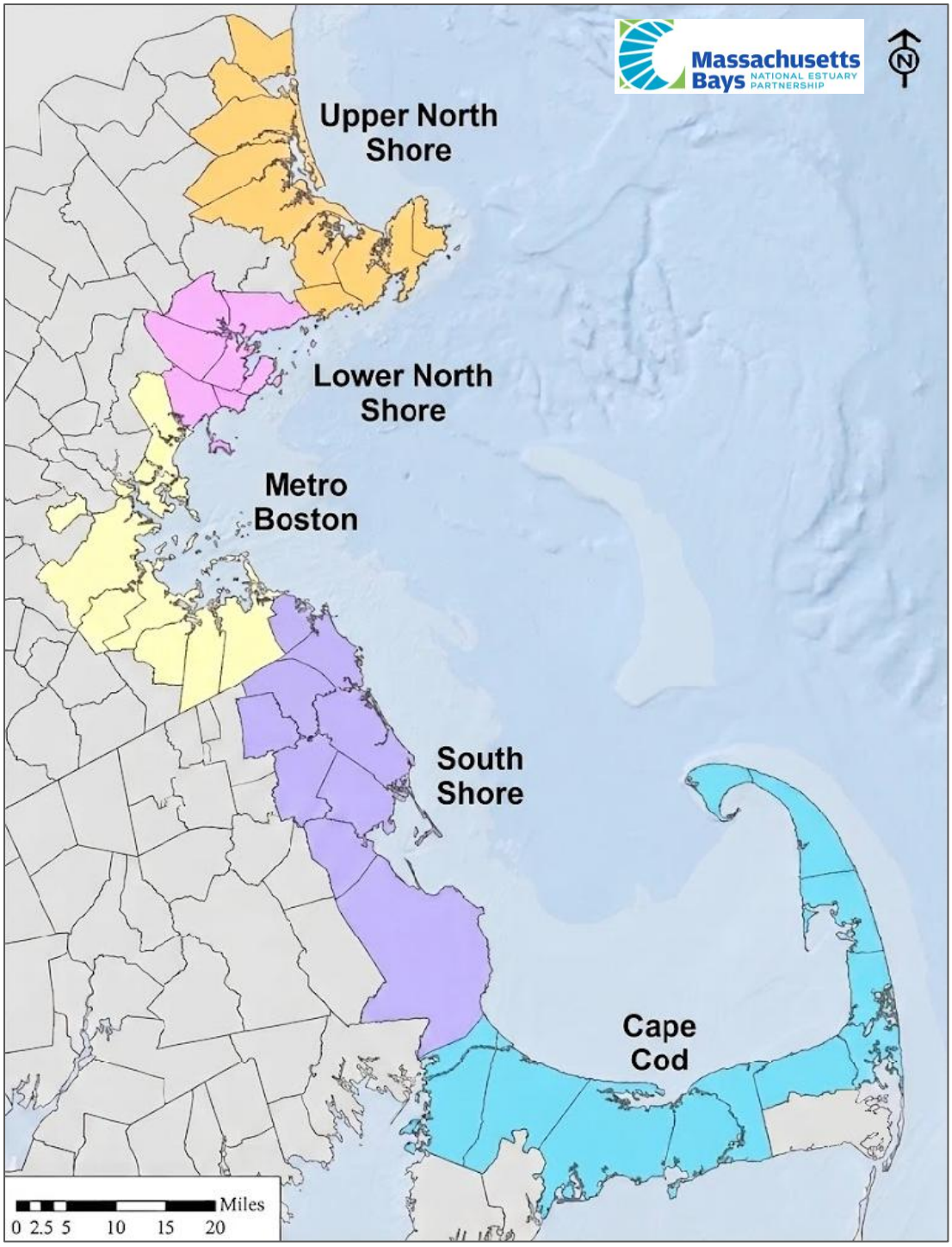


Figure 1. MassBays Planning Area and Subregions

2. Delineation of Estuarine Boundaries

The basis for the delineation in EDA2 was the set of 47 estuarine assessment units produced in 2012 for EDA1. The original estuarine watershed delineation process included the following steps:

1. Determine a seaward boundary that encompassed the assessment area and any nearby major estuarine ecological resources
2. Determine a landward boundary that is reflective of the extent of tidal influence within the estuary.
3. Delineate the watershed that is dictated by the boundaries established in steps 1 and 2.

Given the variety of embayment characteristics across the estuaries, the process described above was sometimes varied on a case-by-case basis. For instance, some areas may not have a major freshwater tributary on which to establish a landward boundary. Instead, these watersheds were delineated simply by determining the proximal area contributing to the embayment using topography. Also, several areas on Cape Cod are influenced by a groundwater contributing area rather than a typical watershed defined by surficial topography. Where special circumstances dictated a deviation from the general delineation process, best professional judgment was used to determine what the most informative and useful "estuarine watershed" would be.

This ACRS includes several minor revisions to the coastal assessment areas presented in EDA2. These revisions represent a shifted embayment boundary due to updated topographic data and the removal of embayment nesting. The following assessment areas had minor revisions:

- Embayments that previously encompassed smaller sub-embayments in EDA2 were revised to no longer include any sub-embayments within them for the ACRS. These embayments included Coastal Plum Island Sound, Salem Sound / Beverly Harbor, and Boston Harbor Islands
- A minor topographic embayment boundary adjustment between the Rockport Harbor (Sandy Bay) and First Encounter Beach embayments resulted in a less than one percent change to the total area of each embayment.

2.1 Determination of Seaward Boundaries

The basis for the seaward boundary delineations began in EDA1 by using the Massachusetts Department of Environmental Protection (MassDEP) Integrated List of Waters. This data is made available as a spatial data set by the Massachusetts Office of Geographic Information (MassGIS). The data provides a spatial representation of all of the river, lake, and estuary segments assessed as part of the Massachusetts Integrated List of Waters (IL). In particular, the estuary water body segments provided a useful starting point for determination of the seaward boundary of the estuarine watershed.

This starting point was, in some cases, insufficient to describe the seaward extent coastal areas for MassBay's purposes. Because the goal is to assess the ecological resources present for each coastal assessment area, a simplistic downstream boundary, such as provided by the IL, would sometimes be insufficient to encompass important estuarine resources just outside the boundary. When appropriate, the seaward boundary was expanded to include important adjacent resources such as tidal flats, eelgrass beds, and shellfish suitability zones.

As the assessment areas were expanded in EDA2 to include all estuarine and inter-estuarine regions along the Massachusetts Bay coastline, a new determination of the seaward boundary was needed. Unlike estuarine areas which often had a specific waterbody to use as the basis for the seaward boundary, newly assessed regions along beaches, linear coastlines, and other inter-estuarine areas directly bordered the ocean with no apparent seaward boundary that could be dictated by geography or resource features. MassBays determined that the 10-meter bathymetric contour would be a suitable basis for establishing seaward boundaries. This depth was chosen because it is representative of the photic zone and would likely include many of the near-shore marine ecological resources of interest. Seaward boundaries were expanded outward from the 10-meter bathymetric contour in order to include any marine ecological resources that existed at greater depths within the vicinity of the assessment area.

2.2 Determination of Landward Boundaries

The intent this ACRS (and predecessor EDA reports) is to assess conditions not only within the boundaries of estuaries and inter-estuarine areas, but also within the relevant watershed areas that contribute to or exist within an "estuarine environment." In some cases, estuaries are fed by large rivers whose contributing areas reach far inland and could be comprised of several hundred square miles (e.g., Merrimack River, Charles River). In these cases, large portions of the watershed are tributary to a major body of fresh water. While these freshwater portions of the watershed are important when considering hydrologic budgets or complete nutrient or bacterial budgets, their effects on the estuary are beyond the scope of this project. To this end, a practical landward extent of the estuarine environment was used to limit the upstream extent of the watershed and remove portions of the watershed that were not directly coastal in nature.

For estuaries with one or more significant freshwater tributary rivers, the furthest extent of tidal influence was used to determine the location of the landward boundary. Two data sources were primarily used in the development of EDA2 to interpret this location:

- Maps of salt marsh locations; and
- Massachusetts General Law Chapter 91 Tidelands Jurisdiction maps.

Of these two data types, the one which extended farther inland was used to determine the landward boundary along any major freshwater tributaries of the estuary.

Special considerations for landward boundaries:

In some cases, coastal areas do not have any major freshwater tributaries. In these cases, the watershed is directly proximal to an estuary or coastline. Some smaller non-tidal tributaries were clearly present within this proximal area and, according to the process described above, would be excluded as non-tidal. However, because they drained directly to a salt marsh or to the ocean, rather than into a fresh water body, they were included within the estuarine watershed.

Figure 2 shows the north coast of the Salem Sound watershed and demonstrates the difference between exclusion/inclusion of these smaller tributaries. The dashed line shows the watershed as it would be delineated by strictly excluding all tributary area beyond the extent of tidal influence. The solid line shows the watershed boundary when smaller freshwater streams are included.

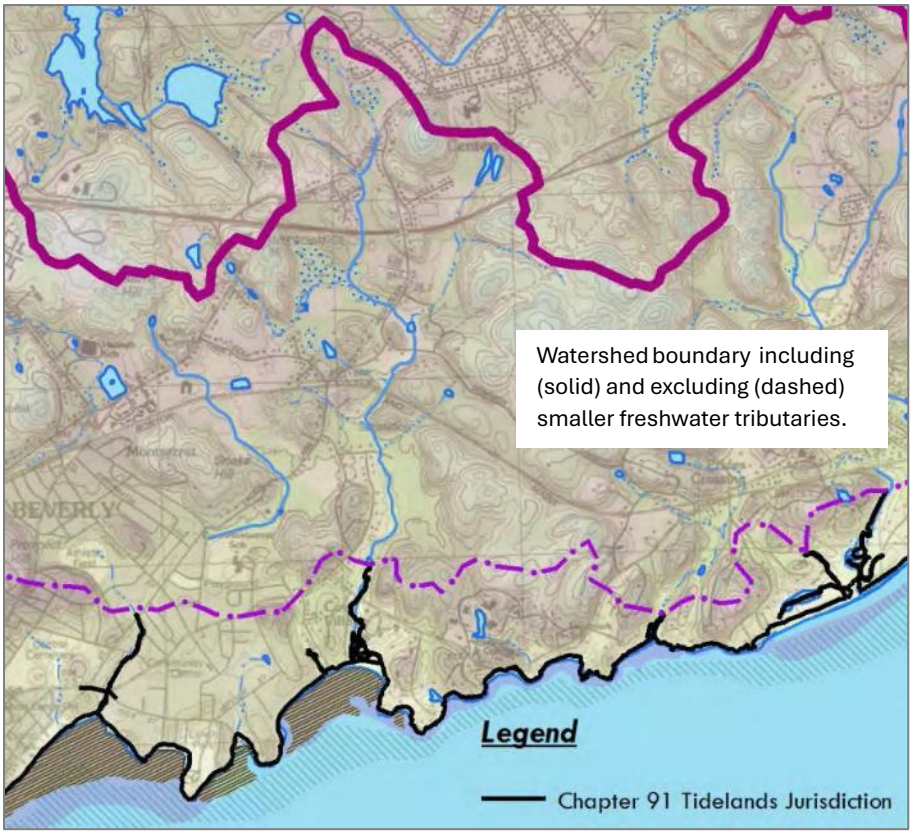


Figure 2. Salem Sound Estuarine Watershed Boundary – Freshwater Tributary Inclusion vs. Exclusion

Where such questions arose, pre-delineated sub-basin watersheds prepared by MassGIS and vetted by the United States Geologic Survey (USGS), Massachusetts Water Resource Commission and the Executive Office of Energy and Environmental Affairs (EOEA), were used determine whether a given tributary warranted inclusion within the estuarine watershed. If a questionable body of water did not have its own sub-basin delineated by MassGIS, and was tributary to the estuary or embayment, it was included within the estuarine watershed boundary.

2.3 Delineation of Remaining Estuarine Watershed Boundaries

For watersheds not located on Cape Cod, the remaining portions of the estuarine watershed boundary were delineated using topography. The primary source of topographic information was the National Elevation Dataset (NED) 1/3-arc-second topographic data produced by USGS. This topographic data was supplemented by 3-m interval elevation contours produced from the MassGIS Massachusetts Digital Elevation Model (DEM).

In certain cases, the above elevation data was not detailed enough to determine the location of a watershed boundary. One such type of location is low lying salt marshes. In these cases, aerial photography was used to interpret the watershed divide using apparent ditches and channels.

The draft estuarine watershed boundaries were then compared to pre-delineated sub-basins prepared by MassGIS. Where discrepancies occurred, the estuarine watershed boundary was adjusted to follow the MassGIS sub-basin boundary if the MassGIS boundary was determined to be a more accurate or practical representation of the estuarine watershed.

2.4 Delineation of Cape Cod Groundwater Contributing Areas (GWCA)

Hydrologic basins on Cape Cod are dominated by groundwater flow and cannot be delineated using surface topography. The primary source of estuarine groundwater contributing areas (GWCAs) on Cape Cod is a data layer created by USGS in cooperation with USEPA. This data layer contains GWCAs generated using regional MODFLOW groundwater models of the Cape Cod aquifer system. In some cases, the seaward estuarine boundary was further modified to better tie into these existing basin boundaries.

3. Environmental and Social Metrics

3.1 Overview of Coastal Metric Categories

This ACRS includes a variety of metrics that can be used to evaluate the condition estuaries and inter-estuarine areas with respect to MassBays' management priorities. These metrics are presented in three broad categories: resources, stressors, and social metrics.

Resource metrics indicate important ecological resources, such as eelgrass beds, shellfish species count and shellfish bed extent, anadromous fish habitat, and salt marsh area. *See complete listing in Section 3.2.*

Stressor metrics include factors that cause or indicate impairment of the coastal areas, such as high-intensity land uses (e.g., industrial, agriculture, etc.), impervious surfaces, population density, 303(d) impairment listings, etc. *See complete listing in Section 3.3.*

Social metrics are primarily related to public access and use of coastal resources via beaches and boat access points. Marine beach water quality and related beach closures is also considered a social metric related to public values derived from beaches. *See complete listing in Section 3.4.*

Nine new and revised metrics for this ACRS are listed in Table 1. Sections 3.2 - 3.4 provide a description and tabular listing of all metrics, the rationale for inclusion in this ACRS, the data source, and the method of calculating the measurement statistic.



Halibut Point State Park, Rockport

Table 1. New and Revised 2026 ACRS Metrics

Metric	Category	Raw Statistic	Normalized Statistic
Diadromous Fish Spawning Habitat (separately for smelt and herring)	Resource	Accessible Spawning Habitat (acres)	Accessible Spawning Habitat (% of potential acres)
Protected Open Space	Resource	Protected Open Space (acres)	Protected Open Space (% of watershed)
Areas Prone to Flooding	Stressor	FEMA VE Flood Zone Area (acres)	FEMA VE Flood Zone Area (% of watershed)
303(d) Impairments: specific nutrient-related impairments now include Total Phosphorus and Total Nitrogen	Stressor	Waterbody Nutrient-Related Impairments (acres)	Waterbody Nutrient-Related Impairments (% of area assessed in MA Integrated List)
303(d) Impairments: specific bacteria - related impairments now include *Enterococcus* and *E. coli*	Stressor	Waterbody Bacteria-Related Impairments (acres)	Waterbody Bacteria-Related Impairments (% of area assessed in MA Integrated List)
303(d) Impairments: Dissolved Oxygen	Stressor	Waterbody Dissolved Oxygen Impairments (acres)	Waterbody Dissolved Oxygen Impairments (% of area assessed in MA Integrated List)
303(d) Impairments: Estuarine Bioassessments	Stressor	Waterbody Estuarine Bioassessments Impairments (acres)	Waterbody Estuarine Bioassessments Impairments (% of area assessed in MA Integrated List)
Combined Sewer Overflows (CSOs)	Stressor	Number of CSOs	N/A
NPDES Sites (active)	Stressor	Number of NPDES sites	N/A
Coastal Beach Access: New metric for public beach area	Social	Public Beach Area (acres)	Public Beach Area (% of watershed)
Coastal Beach Access: New metrics for public beach coastline	Social	Public Beach (miles)	Public Beach Area (% of coastline)

3.2 Resource Metrics

See Table 2 for links to the sources of resource data described below. Appendix A includes the results of this study for all MassBays assessment areas.



Salt Marsh: Salt marshes are coastal wetlands that experience regular flooding with the tides. They are typically found in areas that do not experience strong waves, usually within embayments or along protected coasts. The protected nature of salt marsh systems allows sediment to be trapped and accumulated in the vegetation, highly specialized plants that can tolerate the presence of salt. The "low marsh," which receives abundant tidal flow twice daily, is generally dominated by salt marsh cordgrass. The "high marsh," which receives less regular tidal influence due to its higher elevation, is home to a variety of species including salt marsh hay, black needlerush, and saltgrass.

Salt marshes function as nurseries for commercial and recreational fisheries, and provide habitat and food sources for birds and other wildlife. Salt marshes also play a role in estuarine health by aiding in the cycling of nutrients, water filtration, and stabilizing the shoreline. If able to migrate (shift inland with the rising sea levels) and remain healthy, salt marshes capture sediment and help lessen the impacts of coastal flooding, storm surges, and erosion. This metric is calculated as the area of salt marsh per area of the assessment unit (land and water).

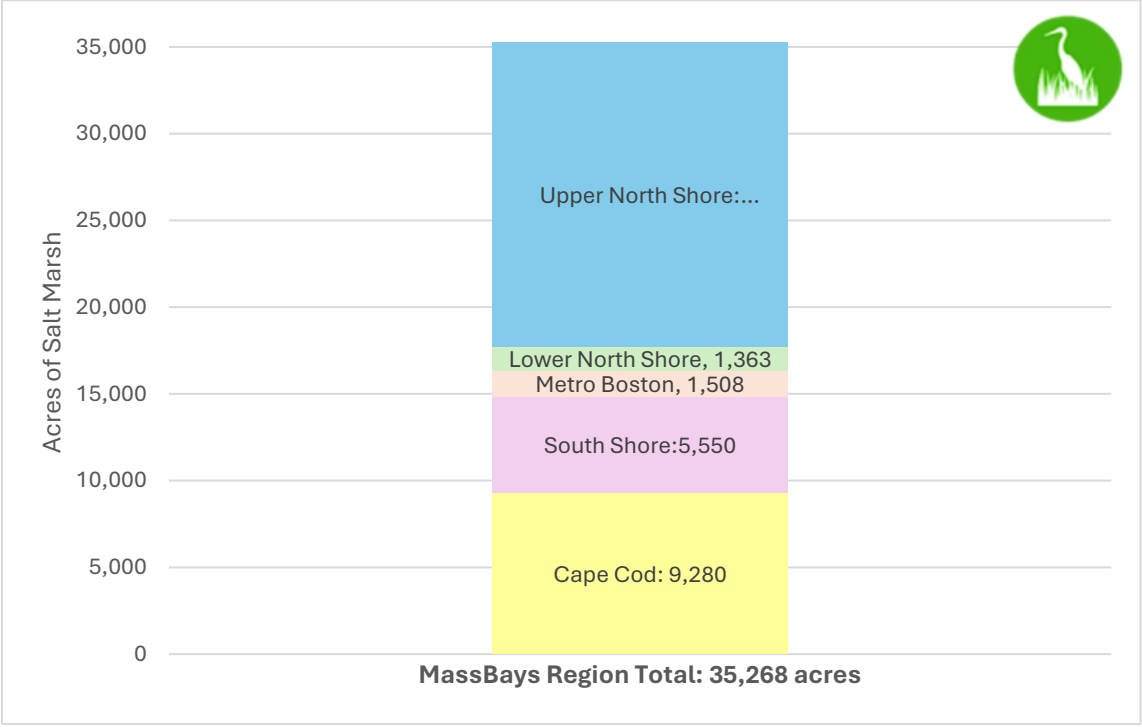


Figure 3. Salt Marsh Extent (2021) in the MassBays Region



Eelgrass: Eelgrass (*Zostera marina*) meadows serve as critical spawning, nursery, refuge, and foraging habitats for many types of fish and invertebrates, including economically important species such as scallops, lobster, and striped bass. Like other plants, eelgrass generates energy through photosynthesis, producing oxygen and storing carbon, which helps drive important food webs. With their extensive root systems, eelgrass meadows stabilize sediment and reduce erosion. Their leaves facilitate the deposition of fine particles of sediment suspended in the water, and they also absorb some pollutants and excess nutrients, thus improving water quality.

The resource metric is quantified as the area of seagrass divided by the estuarine open water area of the assessment unit.

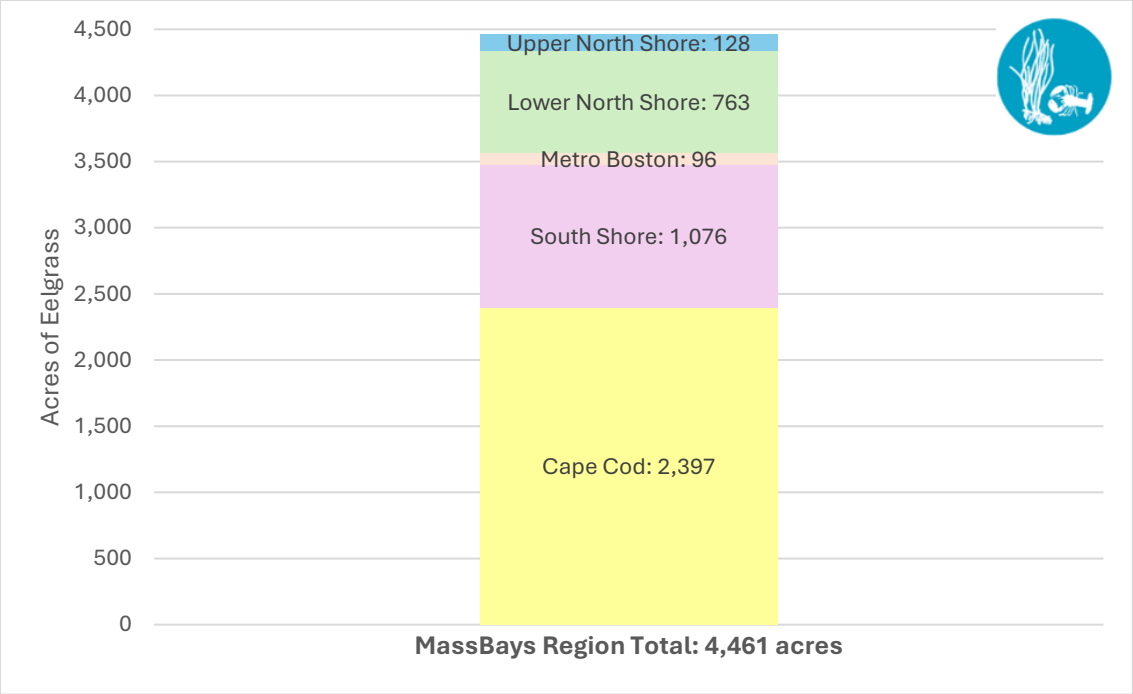


Figure 4. Eelgrass Extent (2019-2023) in the MassBays Region

Tidal Flats: Tidal flats are relatively even and sparsely vegetated areas of loose sand and mud that are exposed at low tide and submerged at high tide. These flats, which provide a critical link between the terrestrial and marine systems, are typically found in areas sheltered from waves, where fine-grained sediments settle. Water quality conditions in intertidal flats are variable given the looseness of the sediment, varying water depths and temperatures, and water tidal water exchange.



This metric is calculated as the area of tidal flats per area of the assessment unit (land and water).

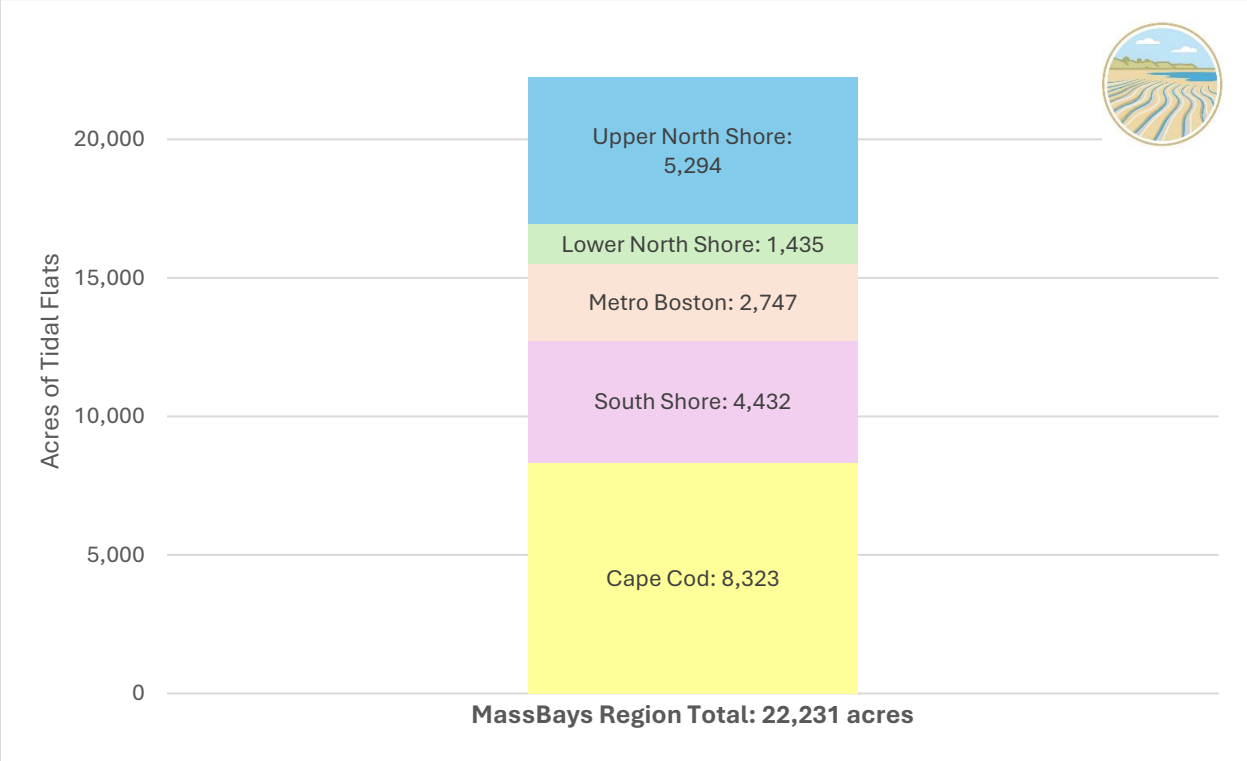


Figure 5. Tidal Flat Extent (2005) in the MassBays Region

Rocky Intertidal Shores: Rocky intertidal shores are important marine habitats that exist between the highest and lowest limits of the tides. They provide habitat for marine life and act as a nursery for crustaceans and fish. They also provide food sources for marine birds and fish, and act as stabilization for shoreline sediment.



This resource metric is quantified as the area of rocky intertidal shore divided by the area of the assessment unit (land and water).

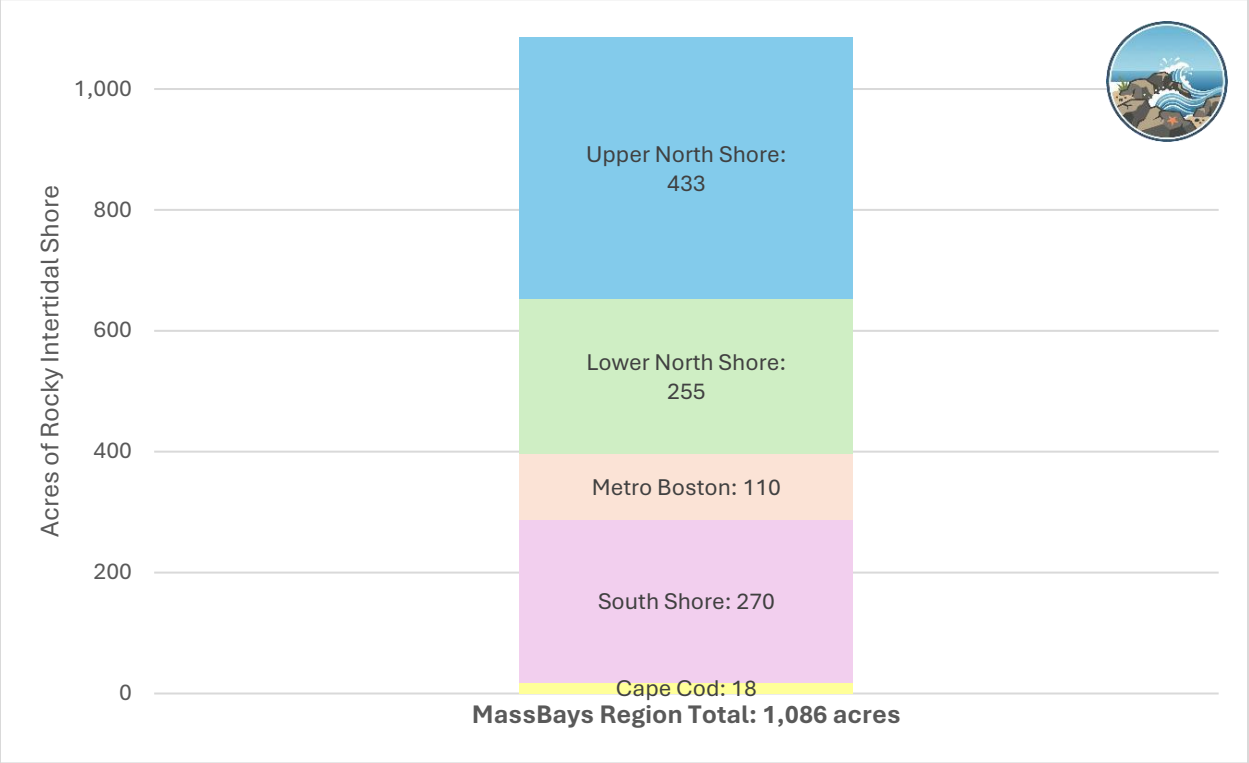


Figure 6. Rocky Intertidal Shore Extent (2005) in the MassBays Region

Sandy Beaches/Dunes: Beaches and dunes provide habitat to marine life (birds, invertebrates, etc.) as well as protecting against erosion and buffering against extreme weather events. The extent of sandy beaches and dunes was quantified using the MassDEP wetlands data layer, using the categories "coastal beach," "coastal dune," and "coastal bank, bluff, or sea cliff."



The sandy beach and dune metric was quantified as the area of sandy beaches and dunes divided by the area of the assessment unit (land and water).

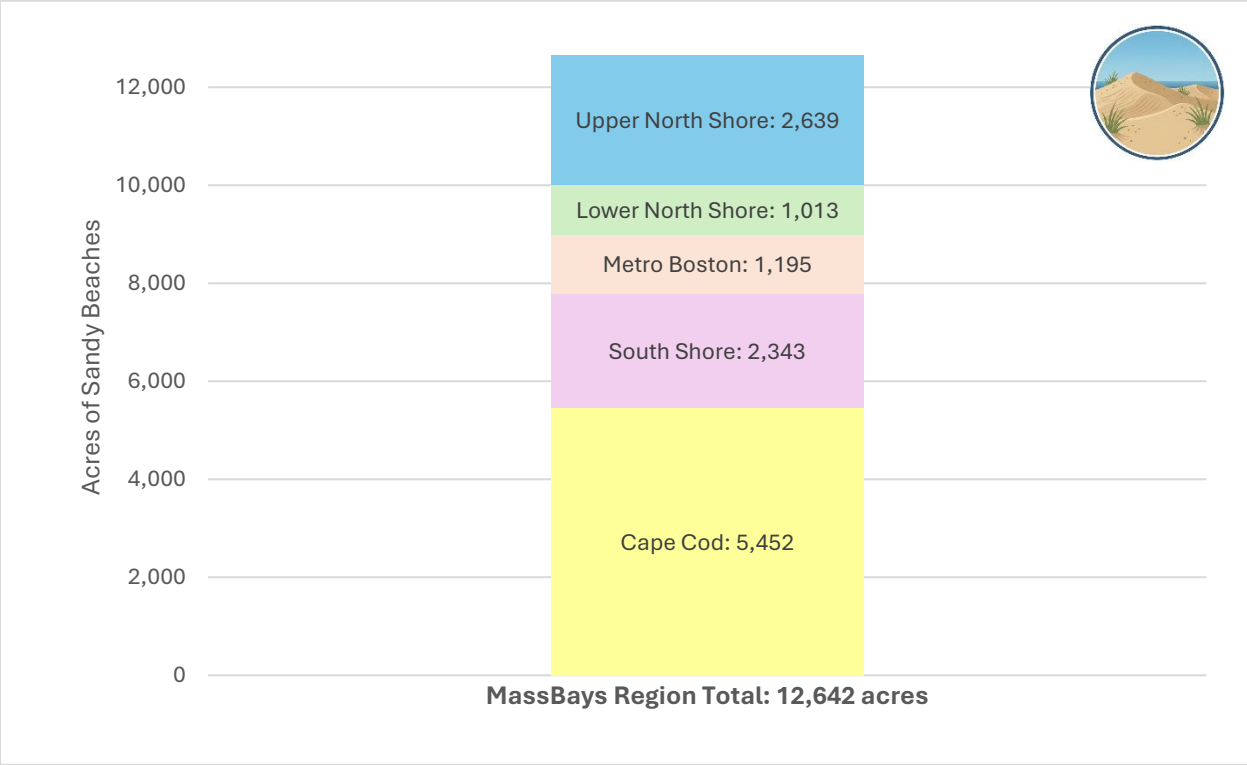


Figure 7. Sandy Beaches/Dunes (2005) in the MassBays Region



Shellfish Habitat: Shellfish habitat was determined using shellfish suitability areas from the Massachusetts Environmental Sensitivity Index. These areas are distinct from the Designated Shellfish Growing Areas described in Section 3.3, in that they represent the best estimate of potential habitat for shellfish species on the Massachusetts coast. Species listed in the dataset include American Oyster, Bay Scallop, Blue Mussel, European Oyster, Ocean Quahog, Quahog, Razor Clam, Sea Scallop, Soft-shelled Clam, and Surf Clam. The dataset was derived by the Massachusetts DMF with input from local shellfish constables, fishermen, and historic maps, and studies of shellfish.

Shellfish habitat was measured in species-acres for this study, meaning multiple species could be counted for the same area if their potential habitats overlapped, and allowing for species diversity to be accounted for in the analysis. This metric is calculated as the habitat area of a given species divided by the open water area of the assessment unit.

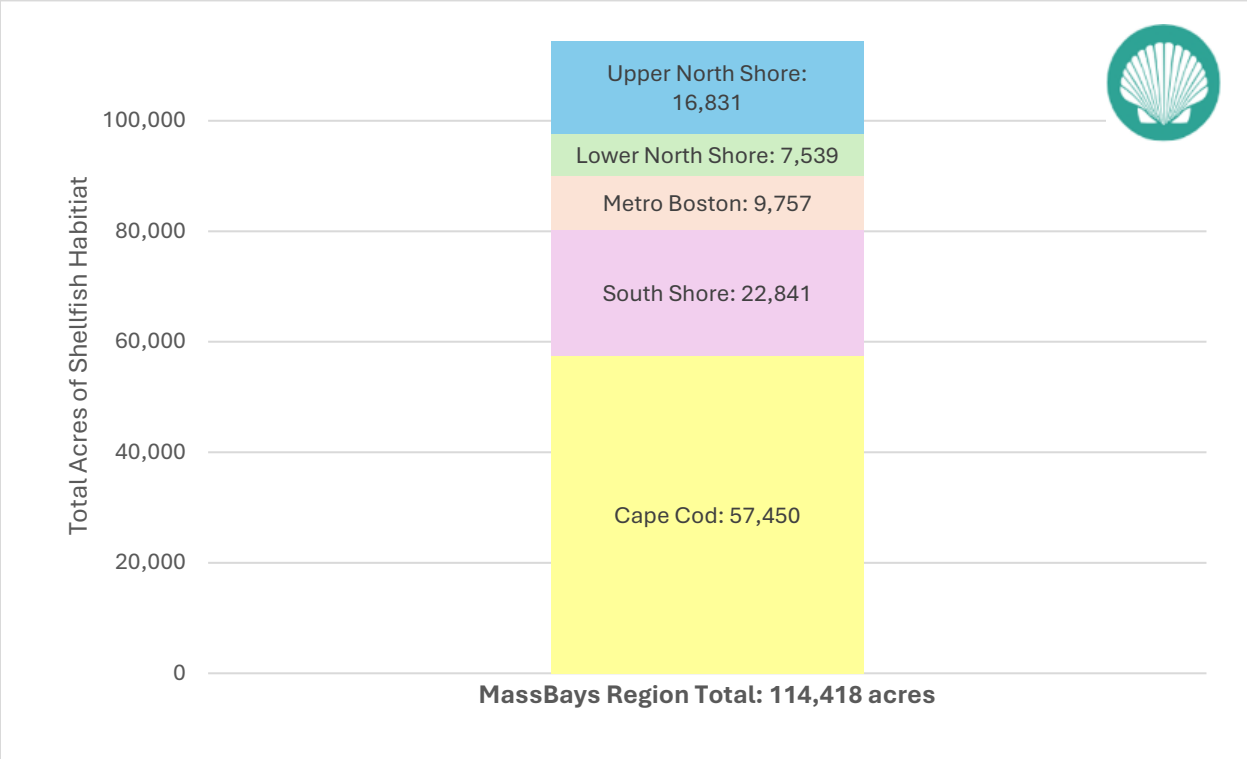


Figure 8. Shellfish Habitat Extent (2011) in the MassBays Region



Shorebird Habitat and Nesting Sites: Shorebird habitat was determined using habitat areas delineated in the Massachusetts Environmental Sensitivity Index (ESI). A complete listing of all species and categories of species included in the ESI is provided in Appendix A. Shorebird habitat was measured in species-acres for this study, meaning multiple species could be counted for the same area if their potential habitats overlapped, and allowing for species diversity to be accounted for in the analysis. Nesting sites were also identified in the ESI and counted for their presence in each estuarine watershed. Shorebird habitat is closely related to other estuarine habitats like salt marsh and tidal flats, which provide food, cover, and nesting sites for shorebirds.

Shorebird habitat statistics are calculated as the habitat area of a given species divided by the total area of the assessment unit. Shorebird nesting site statistics are calculated as the number of nesting sites per total area of the assessment unit.

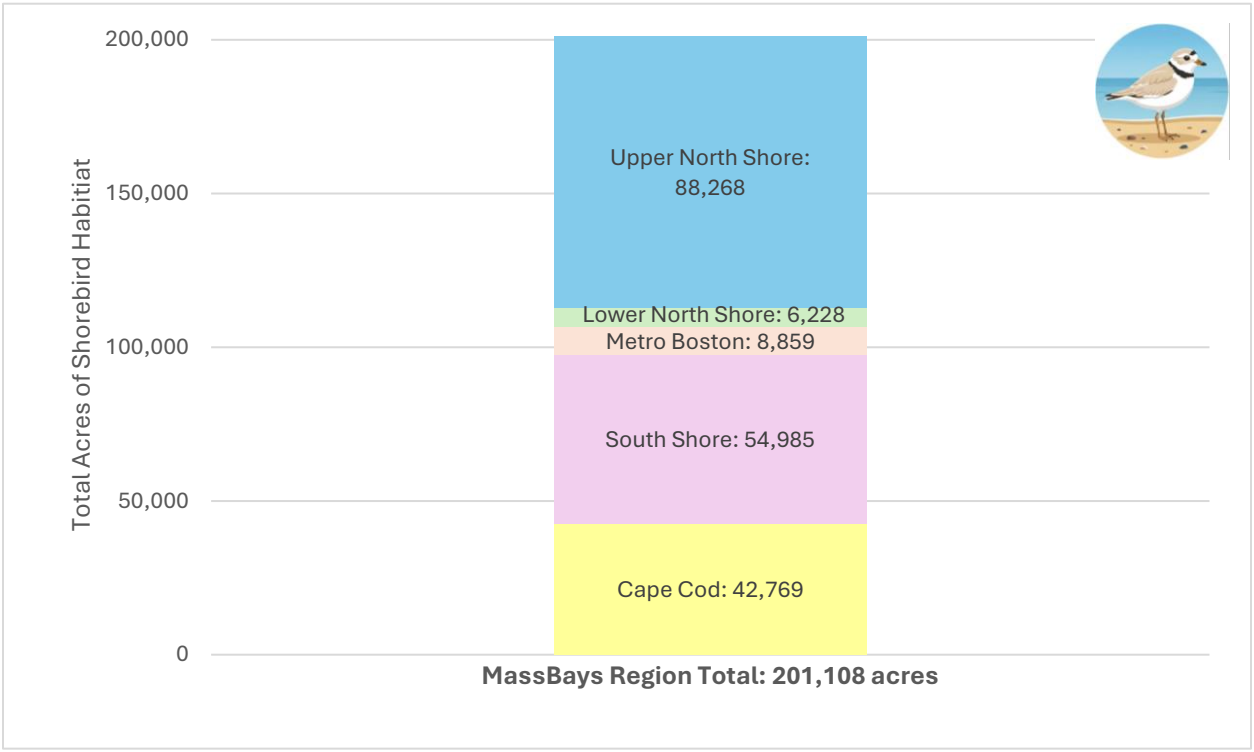


Figure 9. Shorebird Habitat (2016) in the MassBays Region

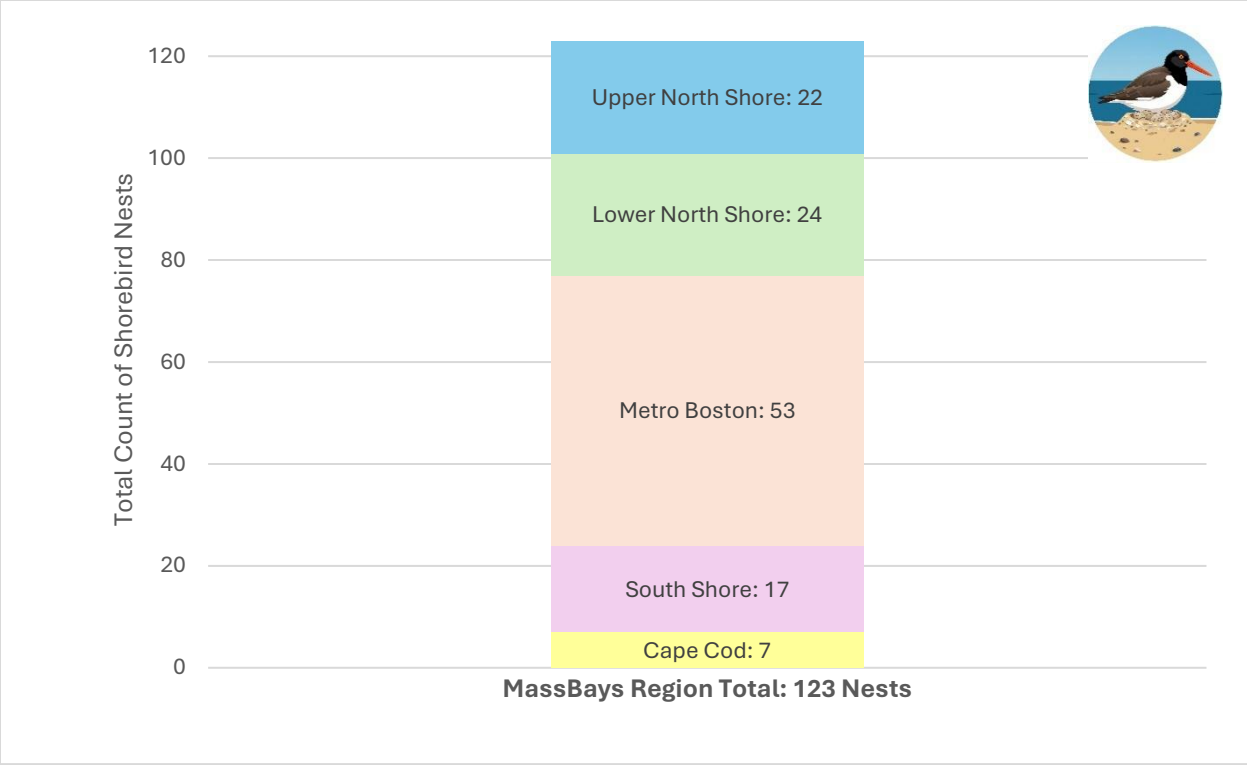


Figure 10. Shorebird Nesting Sites (2016) in the MassBays Region



Diadromous Fish Habitat: The Massachusetts DMF has developed a database of migratory habitat of known anadromous fish runs in Massachusetts. To quantify the length of these runs, the length between each start and end point was traced using a linear representation of hydraulic features (Networked Hydro Centerlines for non-Cape Cod areas, and the National Hydrography Dataset for Cape Cod). This data can be viewed in the DMF Diadromous Fish Viewer.

In the 2023 diadromous fish dataset, Massachusetts DMF also identified the spawning habitat of river herring and rainbow smelt. Lake and pond polygons were identified for river herring spawning areas, while linear stretches of coastal rivers were identified for rainbow smelt using the same methodology as the migratory habitat described above.

The length of migratory habitat and spawning area are calculated as the total length and area both outside and inside the estuarine watershed, unlike other metrics in this report which were calculated only on a feature's presence within the estuarine watershed. The rationale for this difference is that fish runs could extend miles upstream, and a very large and ecologically important fish run could start in a relatively small estuarine watershed, meaning the full size and importance of the run would not be reflected by the portion only within the estuarine watershed.

The resource metrics are calculated as the total accessible migratory fish habitat length for all species, accessible length of rainbow smelt spawning habitat, and accessible area of river herring spawning habitat for any run intersecting the assessment unit (including in waterways that extend beyond the assessment unit landward boundary). The resource metric is the length/area of accessible habitat divided by the total potential habitat (i.e., not accessible).

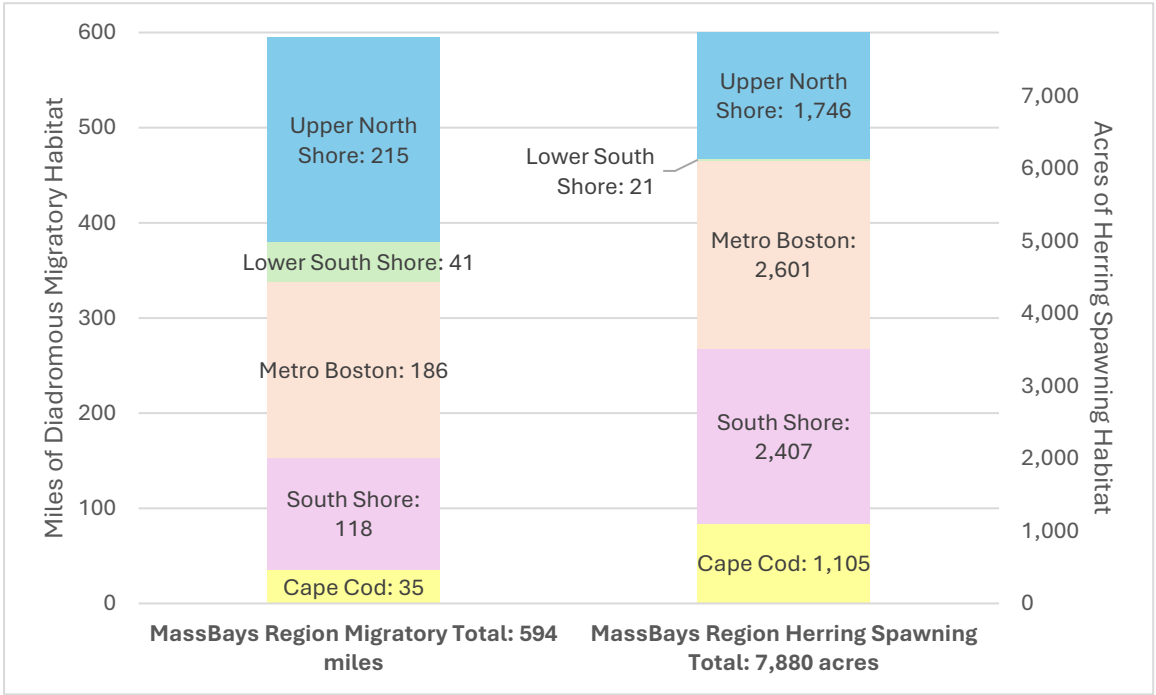


Figure 11. Diadromous Fish Migratory and Spawning Habitat (River Herring) (2023) in the MassBays Region

Protected Open Space: Protected open space mapping and statistics are based on the most recent Massachusetts conservation land data, as provided by the MassGIS 2023 "Protected and Recreational Open Space" layer, areas with purpose code of "C" (conservation), B (Conservation/Recreation), F (Flood Control), W (Water Supply Protection), or Q (Habitat).



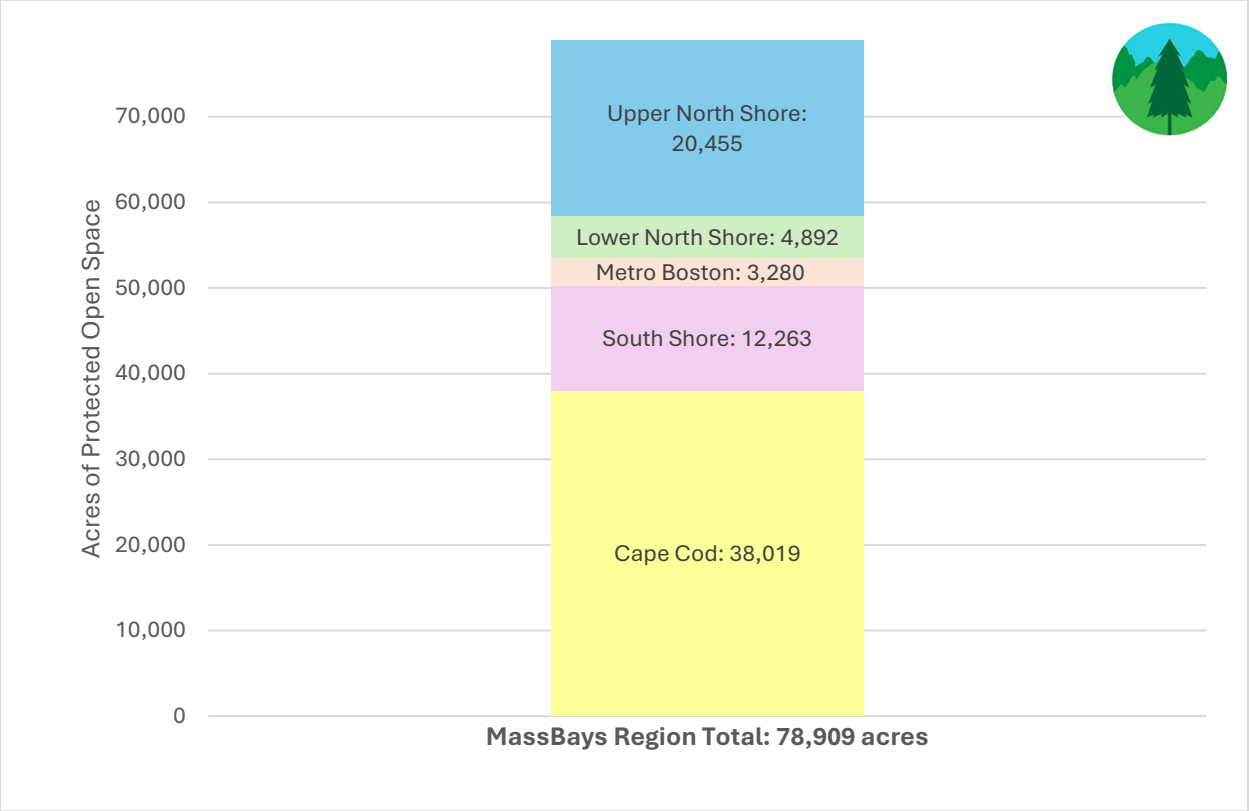


Figure 12. Protected Open Space (2025) in the MassBays Region

3.3 Stressor Metrics

See Table 3 for links to the sources of stressor data described below. Appendix A includes the results of this study for all MassBays assessment areas.



High Intensity Land Use: High intensity land use is considered to be all residential, commercial, industrial, agricultural, and transportation related areas as delineated in the 2016 Massachusetts Land Cover/ Land Use dataset (MassGIS). These land uses are characterized by anthropogenic influence and often lead to high rates of stormwater runoff, bacterial and nutrient contamination, and other types of non-point-source pollution. This metric is related to other ecological stressors, such as road crossings and restrictions (due to the increased presence of roads in these land use areas), encroachment upon wetlands, and increased presence of wastewater discharges.

This metric is quantified as the area of high intensity land use divided by the land area of the assessment unit.

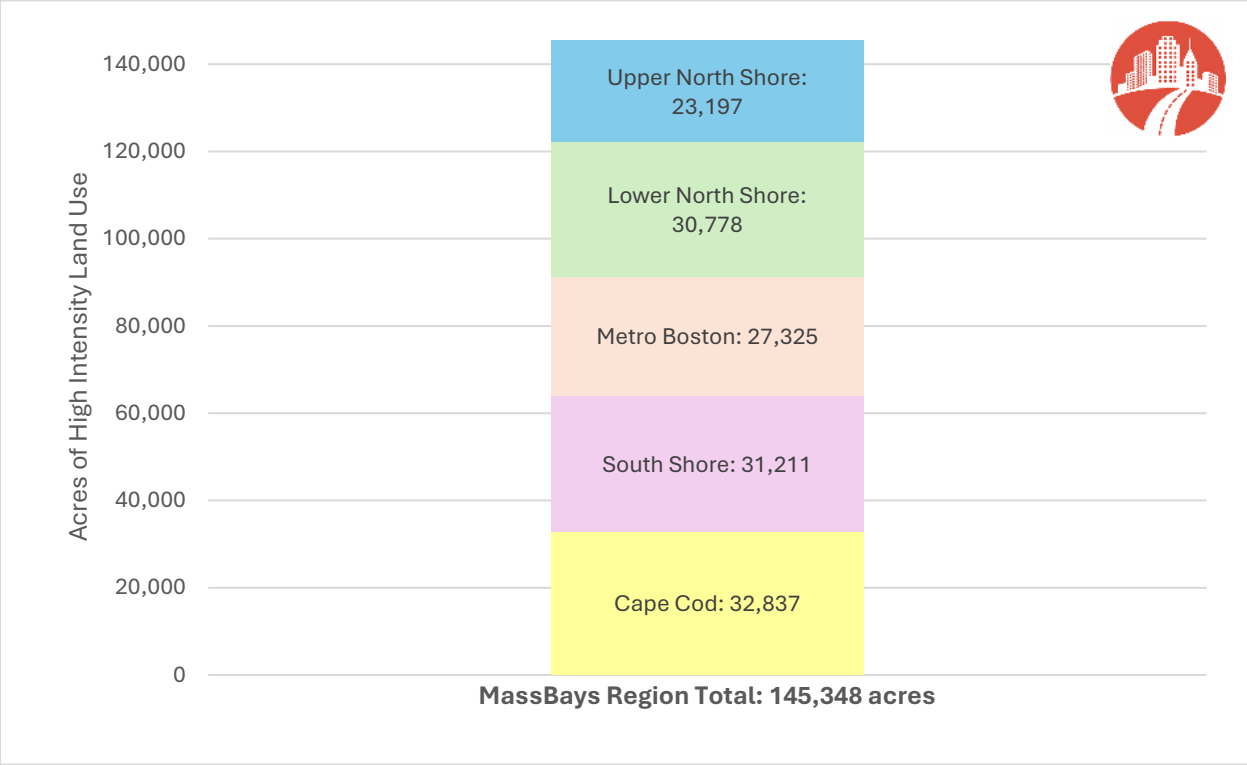


Figure 13. High Intensity Land Use (2016) in the MassBays Region



Annual Stormwater Discharge: Annual stormwater discharge is closely related to the load of bacterial and nutrient contamination to a receiving estuary. High rates of stormwater runoff can lead to increased transport of silt, sediment, and nutrients (especially from agricultural and residential areas), and bacteria (especially from highly developed, impervious areas). In some cases, stormwater runoff can have an effect on the frequency of combined sewer overflows, a significant source of bacterial and nutrient contamination. The rate of stormwater runoff is determined by several factors, including land use type, soil hydrologic group, and rainfall amount. CEI utilized the NRCS Curve Number method and 50 years of local rainfall statistics to estimate the annual volume of stormwater discharge in each estuary.

This metric is calculated as the volume of stormwater runoff divided by the assessment unit land area (i.e., average annual stormwater depth).

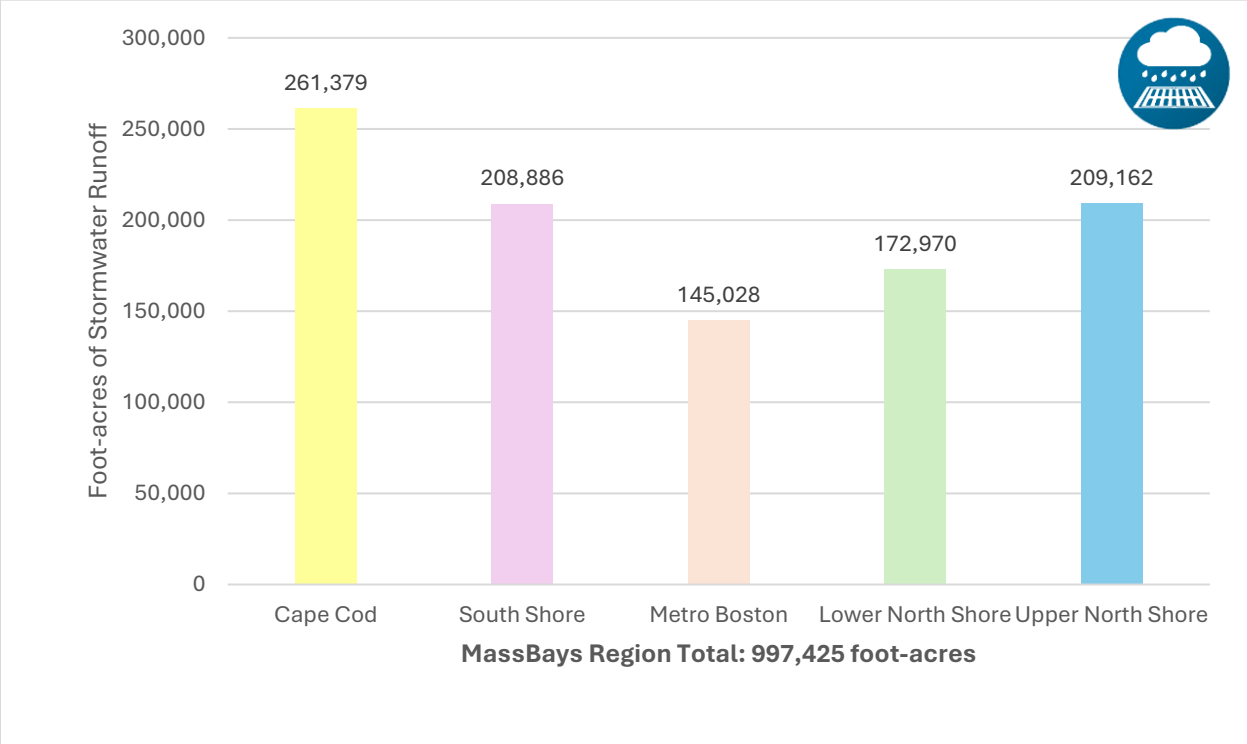


Figure 14. Annual Stormwater Runoff Volume in the MassBays Region



Impervious Area: Impervious land cover (e.g., roads, rooftops, parking lots) prevents water infiltration into the ground and is a key indicator of land development and associated impacts on water quality and natural habitats. Impervious surfaces increase the volume and velocity of stormwater runoff, leading to more frequent and severe flooding, stream bank erosion, and reduced groundwater recharge. The rapid runoff picks up pollutants (sediment, nutrients, oil, grease, heavy metals, etc.) and delivers them into waterways, degrading water quality and threatening aquatic ecosystems.

This metric is calculated as the impervious area divided by the assessment unit land area (i.e., percent impervious cover).

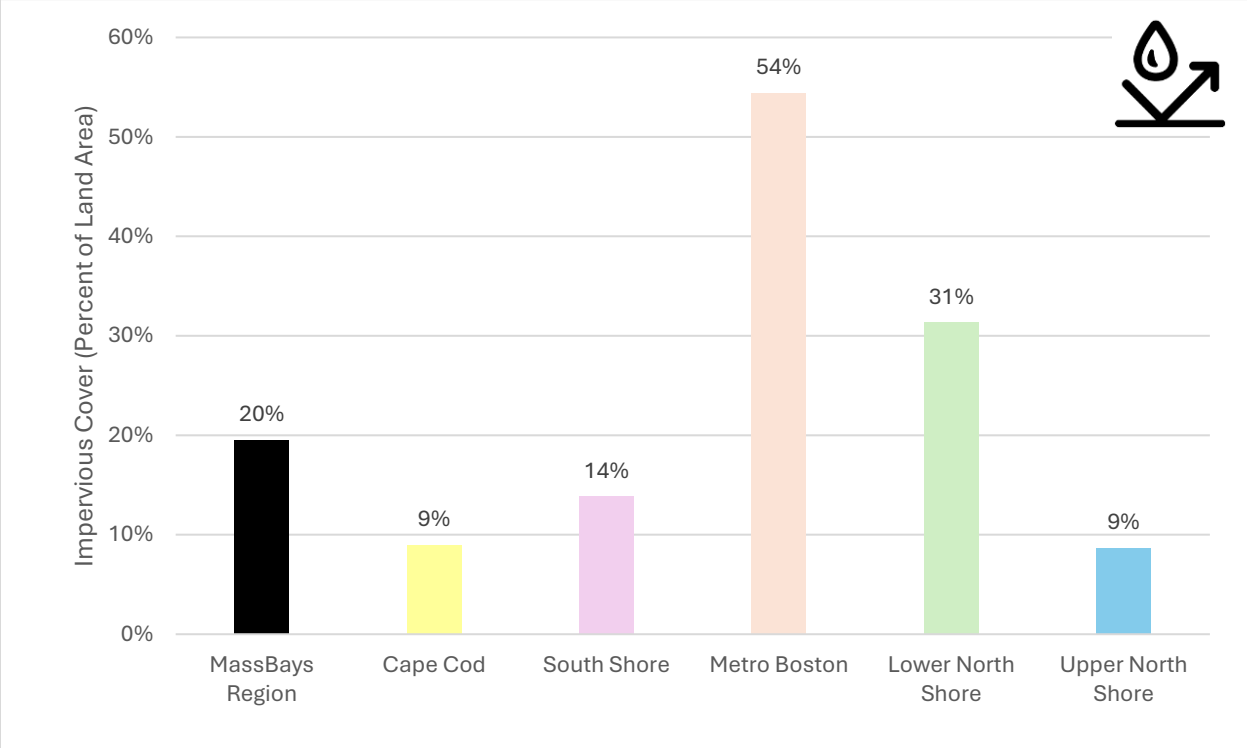


Figure 15. Percent Impervious Area (2016) in the MassBays Region

Population: Population and population density are direct indicators of the extent of anthropogenic influence on an estuarine watershed. Increased population correlates with the presence of high intensity land uses, as well as impervious area. These factors can lead to significant increases in stormwater runoff. High-population areas can lead to increased rates of wastewater discharge, either in the form of wastewater treatment plants or septic system use.



Population was determined using 2020 US Census data. This metric is calculated as population density (population per square mile).

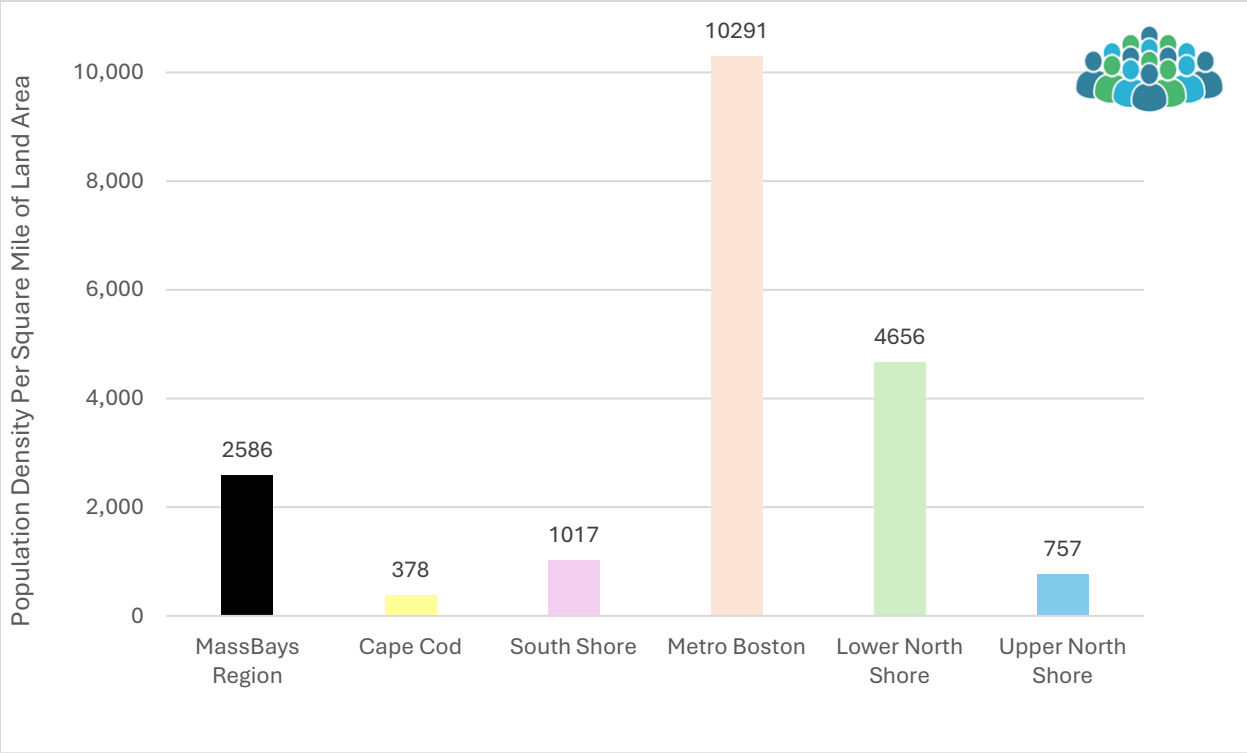


Figure 16. Population Density per Square Mile (2020) in the MassBays Region



NPDES Sites (Active): A National Pollutant Discharge Elimination System (NPDES) site is a location - such as a factory, construction site, or wastewater plant – which operates under a NPDES permit. Under the federal Clean Water Act, these sites are allowed to discharge specific treated or stormwater wastes into public water bodies, provided they follow pollution discharge limits specified in the permit.

This data was acquired from the Permit Compliance System (PCS) database within the EPA's Envirofacts Warehouse. All Massachusetts NPDES facilities with an active or "admin continued" status were selected, with the exception of construction projects requiring a NPDES Construction General Permit (due to the temporary nature of construction projects).

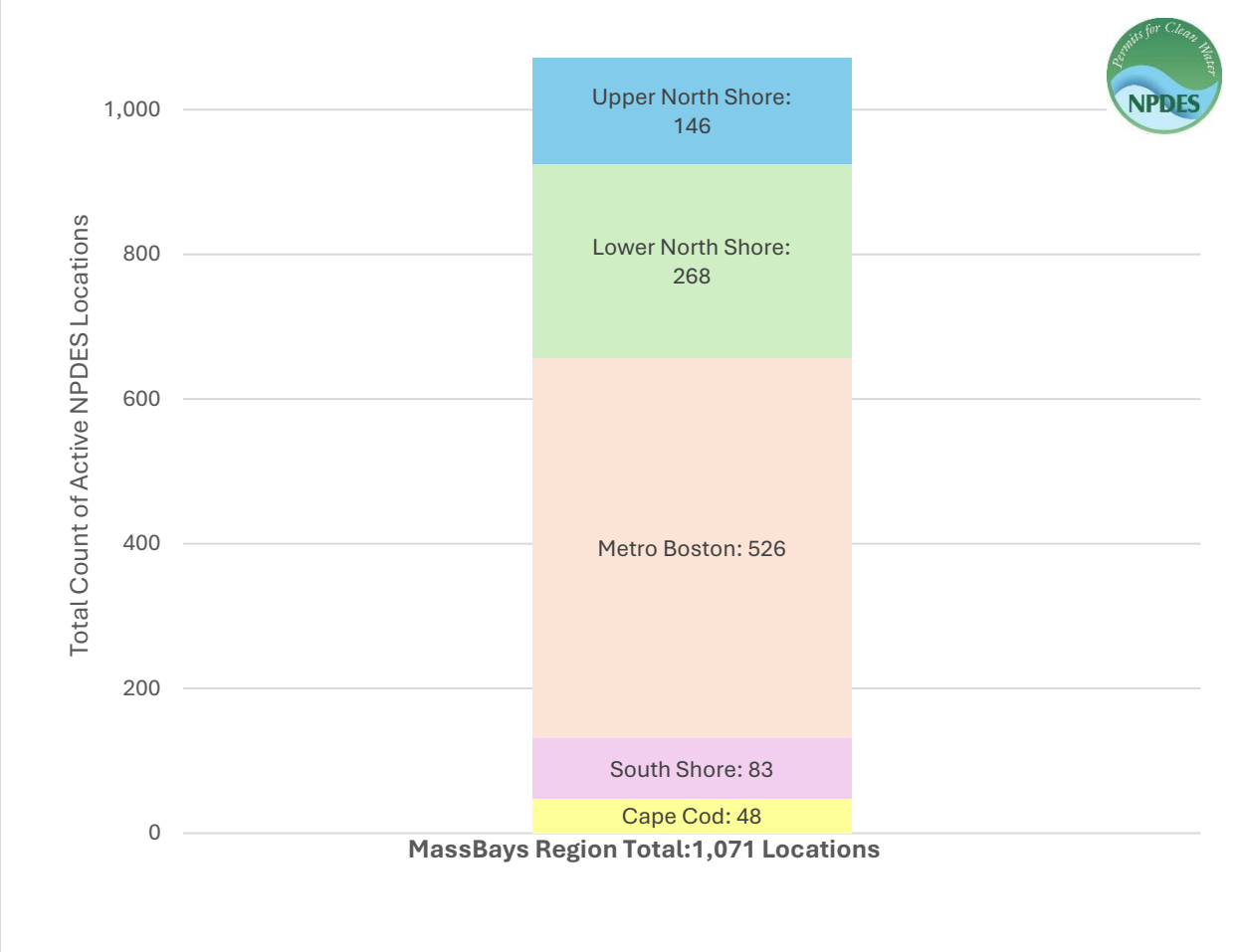
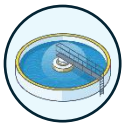


Figure 17. Active NPDES Sites (2025) in the MassBays Region

Wastewater: Wastewater is a direct source of nutrient and bacterial pollution to an estuarine receiving body. Sources of wastewater can include wastewater treatment facility direct discharges to surface water, discharges to groundwater, and septic systems. Some wastewater treatment facility systems may receive wastewater from areas outside of the estuarine watershed in which they are located. As a result, the impact from these wastewater sources may be greater than the population within the watershed would indicate.

While wastewater sources often have an impact on their receiving waters, there are several factors that can mitigate the severity of impact. The quality of treatment performed in any of these wastewater systems will clearly lessen any impacts to the receiving water body, especially if the system includes some type of 'tertiary' treatment to remove nutrients. Additionally, the tidal flushing characteristics of the estuary will have a large effect on the severity of the impact, with faster-flushing water bodies being better suited to receive wastewater discharge. For wastewater sources, the metric is simply the total discharge volume of all sources within the assessment unit.

1. **Wastewater discharges to surface water:** These sources include wastewater treatment facilities (WWTFs) that directly discharge to a surface water body. Permitted treatment facilities associated with sewerage systems were identified using the EPA's Envirofacts Warehouse database. Permitted flow rates for each system were obtained from the database and considered to be an indicator of the magnitude of discharge, although typical flows from a given treatment plant may be less than the permitted flowrate. Locations of outfall pipes were determined using coordinates provided in the EPA database or from descriptions of the receiving waters, and these locations were used to determine whether the facility discharges to the estuary in question.



2. **Septic systems:** Septic systems can contribute to estuarine eutrophication via transport of nitrogen, typically the limiting nutrient in saline waters, into groundwater. CEI inversely estimated the extent of septic system service by first identifying areas with sanitary sewer service using the MADEP Sewer Service Areas GIS layer. These results were then combined with estimates of population density to estimate the number of residents within a given area that are mapped as being served by sanitary sewer. It was assumed that the remaining population was served by an onsite septic system and reported as population and percent of the total population. An average per-capita water use of 69.3 gal/day, provided in the EPA "Onsite Wastewater Treatment System Manual," was used to estimate a daily flow rate of wastewater into the groundwater.



3. **Wastewater discharges to groundwater:** These sources of wastewater result from community septic systems, institutional septic systems, or wastewater treatment plants that discharge to the groundwater rather than surface water. They are distinct from residential septic systems as they are large enough to require an individual permit and are thus more readily quantifiable. These systems were identified from the MassDEP Groundwater Discharge Permits database and represent systems with discharges in excess of 10,000 gallons per day, discharge any amount of industrial wastewater or use reclaimed water in conjunction with a groundwater discharge.



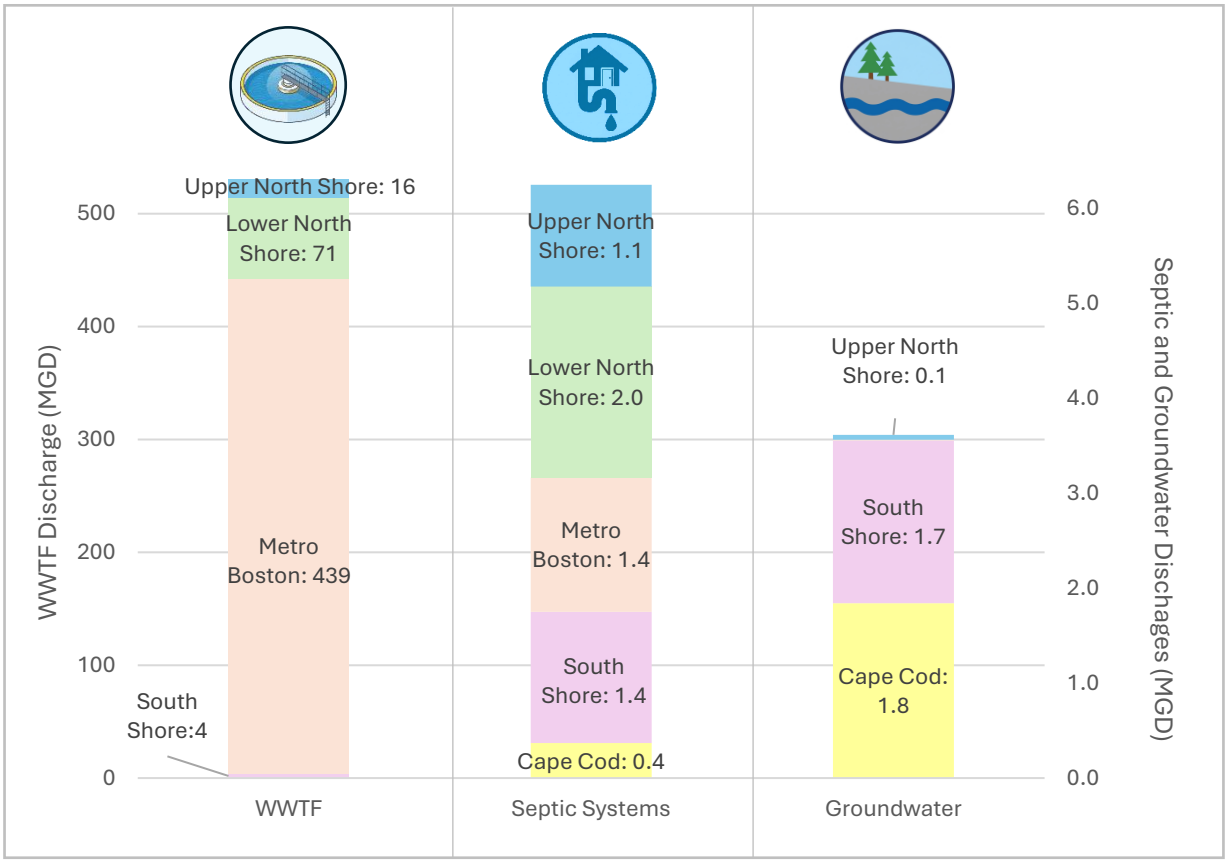
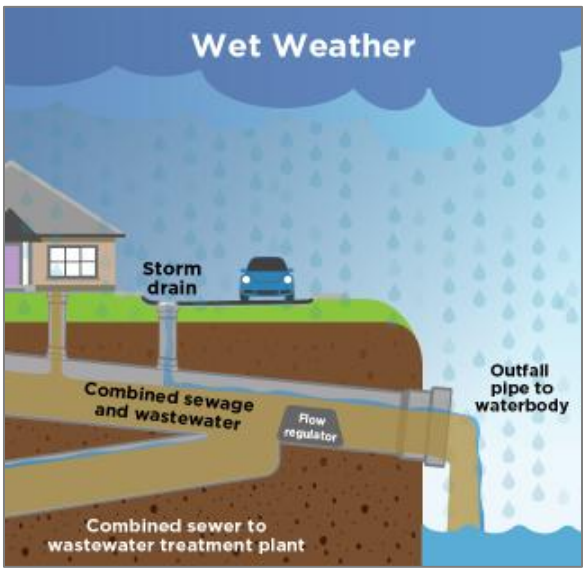


Figure 18. Wastewater Discharges in the MassBays Region by Source Type

Combined Sewer Overflows: A Combined Sewer Overflow (CSO) is the discharge of untreated domestic sewage and stormwater runoff directly into nearby water bodies. These overflows occur in older municipal infrastructure where a single pipe system collects both stormwater and wastewater.



Under normal dry weather conditions, the combined flow is carried directly to a wastewater treatment plant where it is treated before being discharged to a waterbody. During heavy rainfall or snowmelt, flow volume can exceed the system's capacity. When this happens, relief outfalls automatically release the excess mixture of rainwater and untreated sewage into waterbodies to prevent back-ups into streets and basements. These untreated discharges contain bacteria, debris, and other hazardous substances. CSOs can also cause beach closures, shellfish bed closures, algae growth, reduced oxygen levels in waterways, and aesthetic impacts from floating debris or oil slicks.

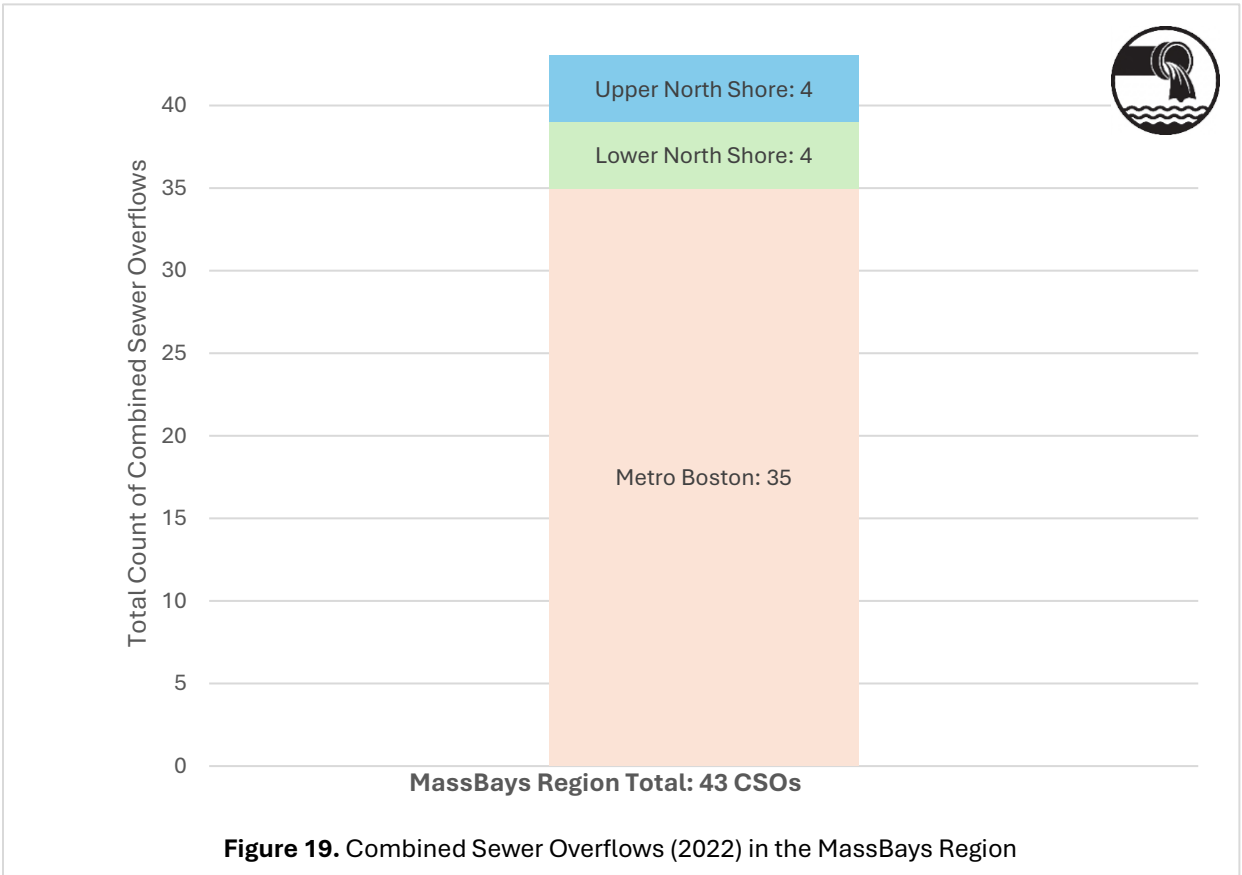


Figure 19. Combined Sewer Overflows (2022) in the MassBays Region

303(d) Impairments: A 303(d) impairment refers to a water body (such as a lake, river, or estuary) that fails to meet state Water Quality Standards under Section 303(d) of the federal Clean Water Act. MassDEP provides spatial representation of its 2022 303(d) list of impairments (from the 2022 Massachusetts Integrated List of Waters) in two ways: linear representation for rivers and streams, and areal representation for lakes and estuaries. Water bodies can be listed for a wide range of impairments, of which a subset was selected to represent the specific management priorities of this ACRS, as listed below:

1. **Nutrient-related** impairments include listings for Ammonia, Total Nitrogen, Phosphorus, Total Phosphorus, Chlorophyll-*a*, Excess Algal Growth, and Nutrient/Eutrophication Biological Indicators.
2. **Dissolved Oxygen**
3. **Bacteria** impairments include listings for Fecal Coliform, *Enterococcus*, and *E. coli*.
4. **Estuarine Bioassessments**

303(d) impairment metrics for estuaries are calculated as the area of impaired water divided by the total area of classified waters within the assessment unit. Metrics for rivers/streams are calculated as the length of the impaired waters divided by the length of classified waters within the assessment unit.

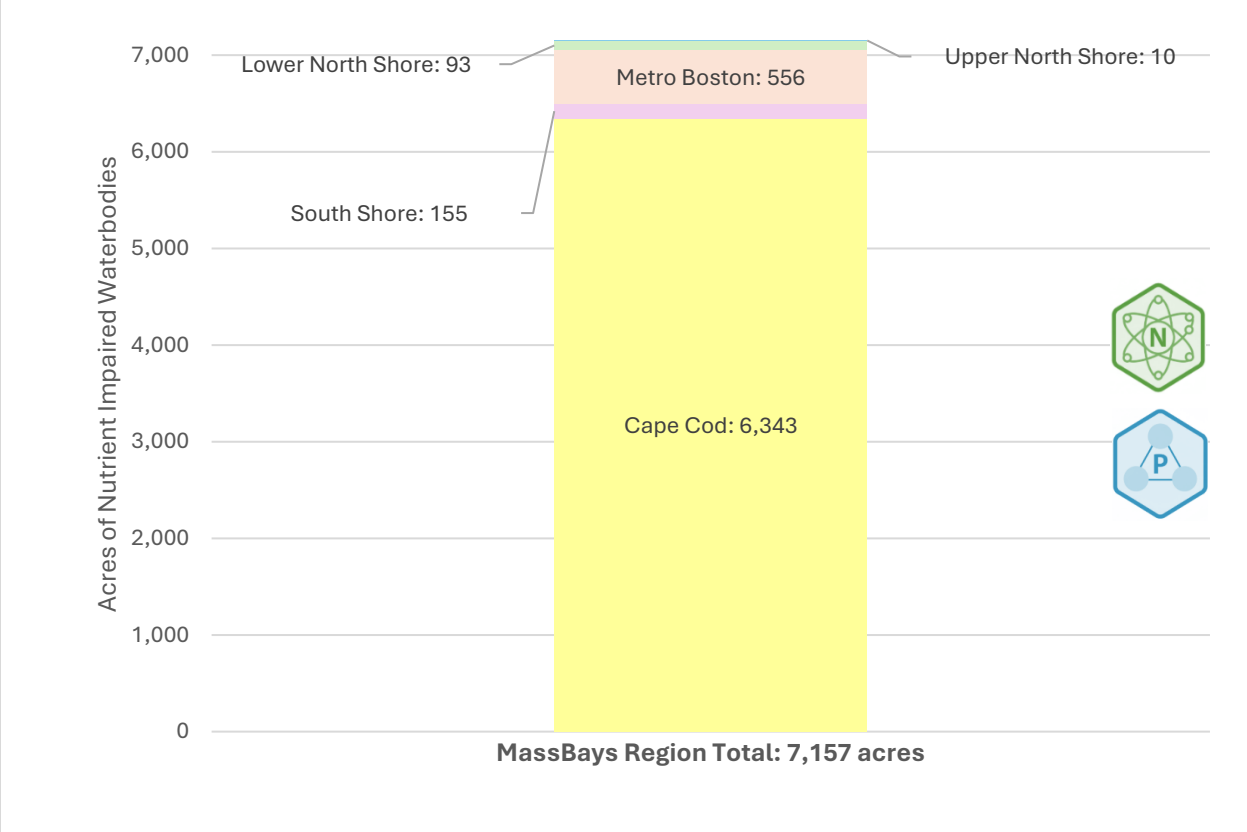


Figure 20. Area of Nutrient-Impaired Waterbodies (2022) in the MassBays Region

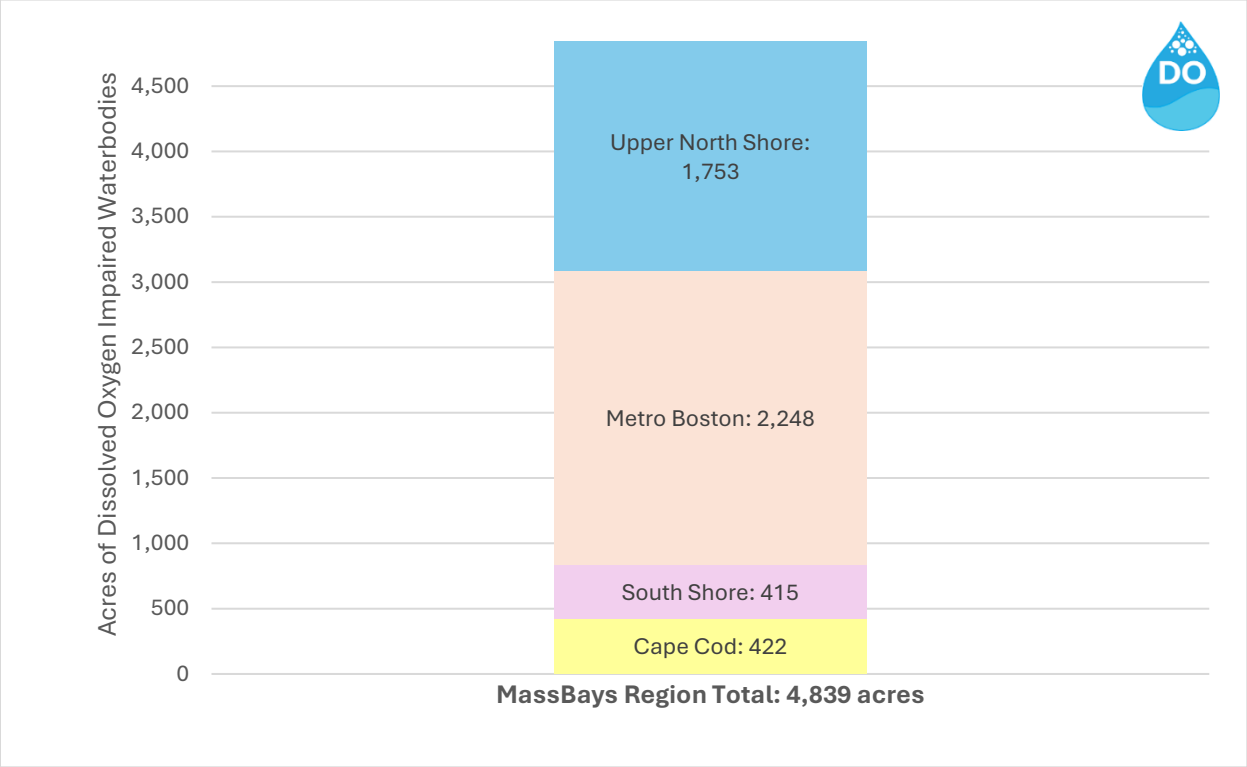


Figure 21. Area of Dissolved Oxygen-Impaired Waterbodies (2022) in the MassBays Region

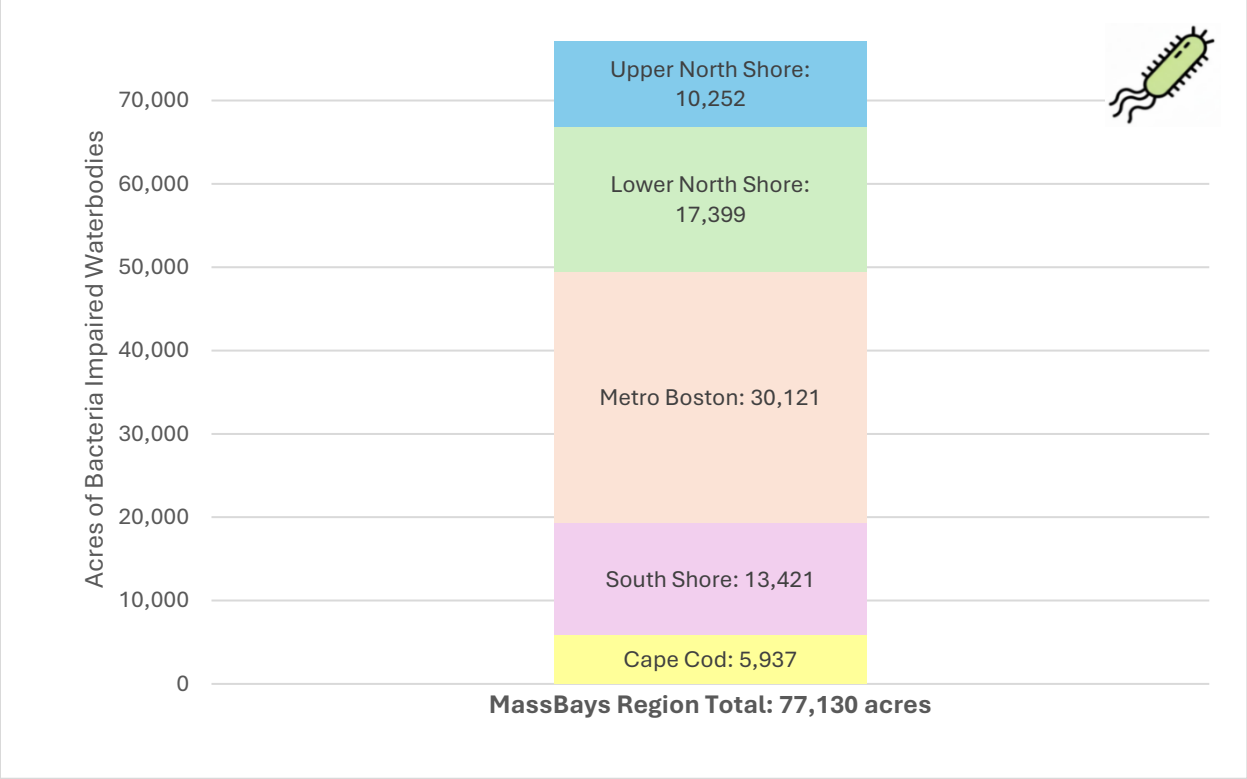


Figure 22. Area of Bacteria-Impaired Waterbodies (2022) in the MassBays Region

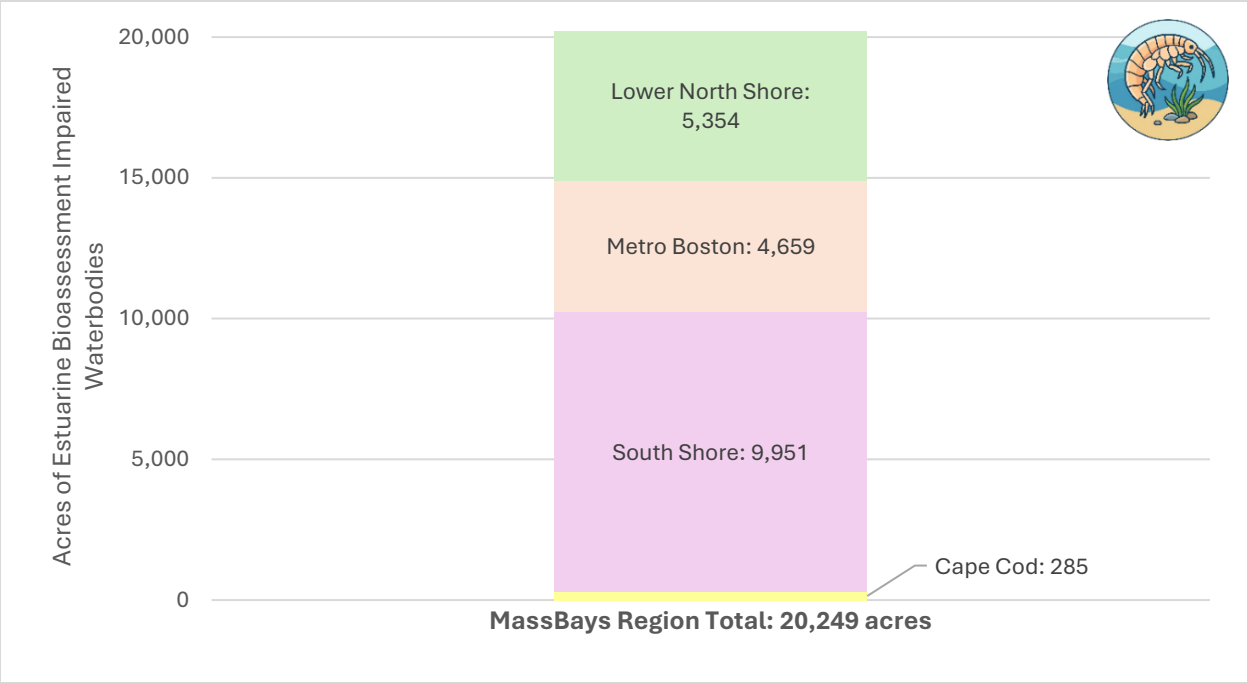


Figure 23. Area of Estuarine Bioassessment-Impaired Waterbodies (2022) in the MassBays Region

Designated Shellfish Growing Area Classification: Shellfish growing areas are classified by the Massachusetts Division of Marine Fisheries for shellfish harvest suitability for human consumption. Each Designated Shellfish Growing Area (DSGA) is classified based on five categories: Approved, Conditionally Approved, Restricted, Conditionally Restricted, and Prohibited. This metric is calculated as the area of each DSGA class divided by the open water area of the assessment unit.



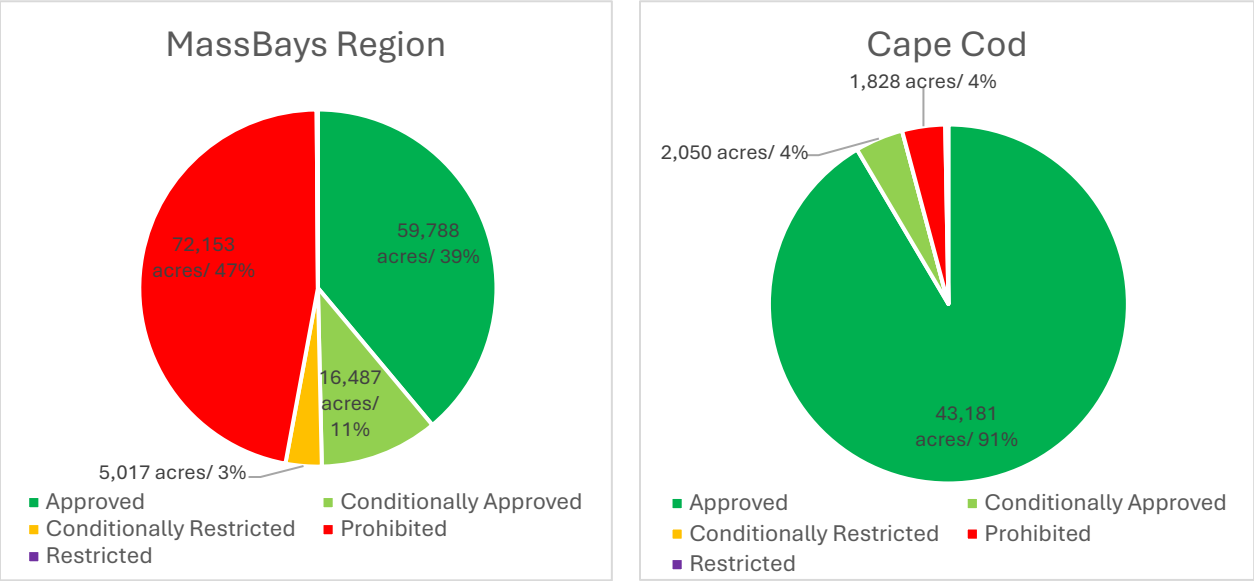


Figure 24. Shellfish Growing Area Classifications (2025) in the MassBays Region

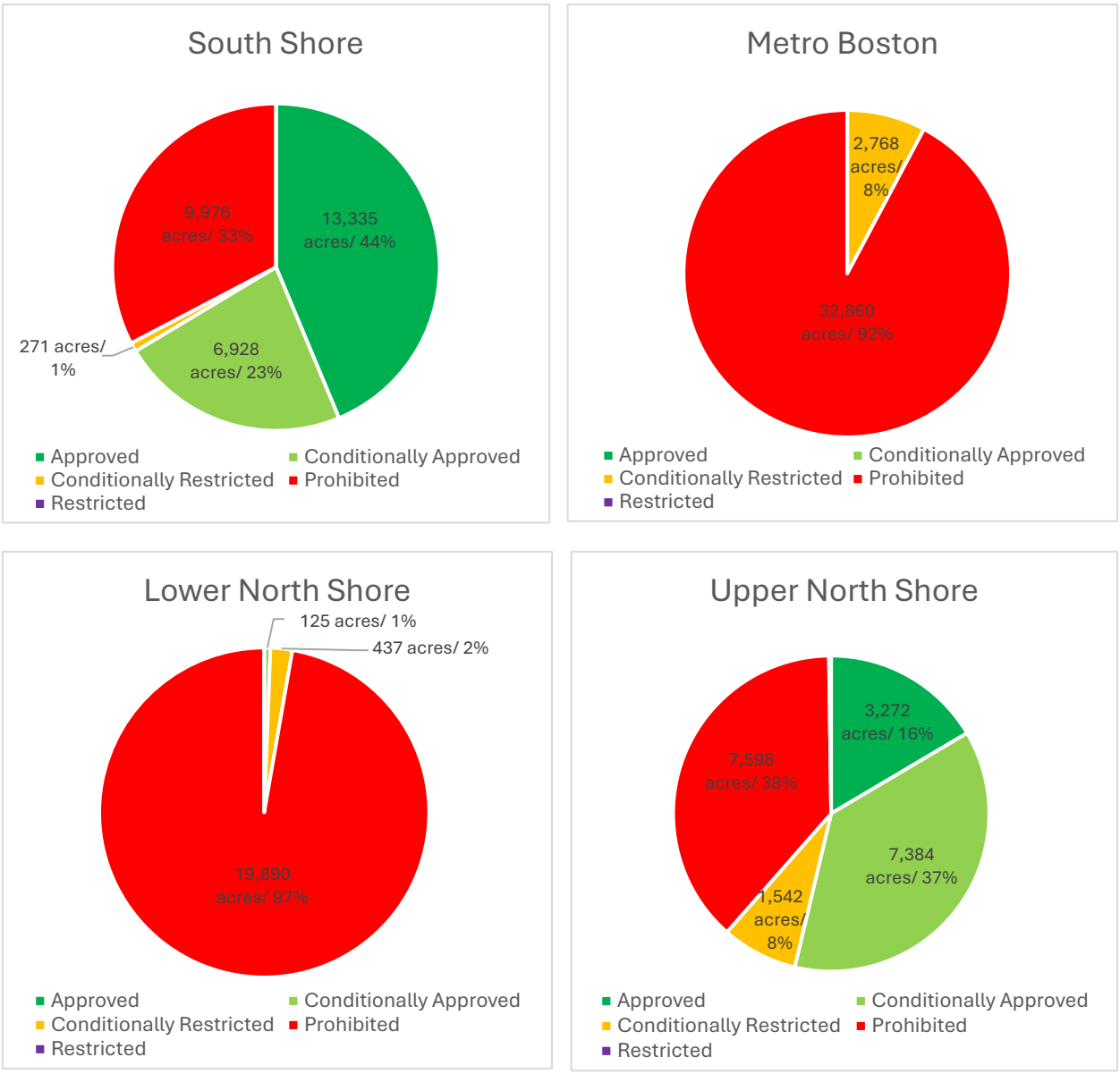


Figure 24 (continued): Shellfish Growing Area Classifications (2025) in the MassBays Region



Impoundments Causing Fish Passage Barriers: Impoundments along streams and waterways can potentially restrict or prevent the passage of diadromous fish. For this reason, the number of impoundments that cause a fish passage barrier are considered a stressor with respect to the estuarine habitat continuity. However, impoundments can cause other stressors beyond fish passage barriers, such as increased stream temperatures and a disruption of natural sediment transport.

The Massachusetts DMF identifies structural feature locations that can influence fish passage within the Restoration Projects layer of the Diadromous Fish dataset. Fish passage impacts of impoundments may have already been addressed by the implementation of fish ladders or other fish passage structures. In such cases, the impoundment was removed from the count of impoundments within the estuarine watershed. Structures with fish passage structures were identified by DMF as being accessible and removed from the analysis.

An estuarine watershed often ends just downstream of an impoundment due to its restriction of tidal flow, which was used to indicate the furthest upstream extent of the estuarine watershed. In these cases, a barrier was counted in the estuarine watershed due to its direct impact, even though it technically was located just outside of the watershed boundary.

This metric is calculated as the number of impoundments causing fish passage barriers divided by the assessment unit land area.

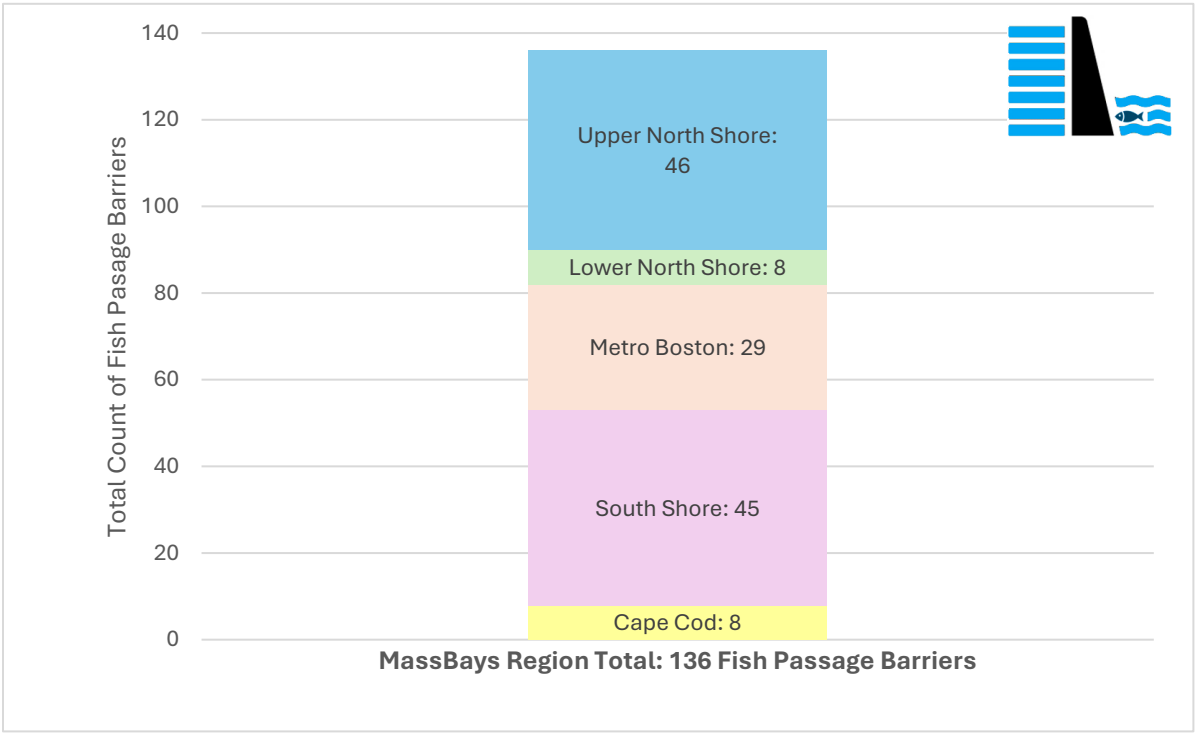


Figure 25. Coastal Impoundments Causing Fish Passage Barriers (2023) in the MassBays Region



Stream Crossings: Road crossings over streams and rivers can cause impediments to anadromous fish passage. Elevated culverts, blocked culverts, strong velocities, and other factors can prevent the upstream migration of fish. Significant field work is necessary to document all road crossings within an estuarine watershed, and is beyond the scope of this project (however, it has been performed by watershed groups in select watersheds, such as the North and South River). Instead of field documentation of all road crossings, the Massachusetts Department of Transportation statewide roads shapefile was intersected with a linear representation of hydraulic features (the National Hydrography Dataset Plus Version 2). Identified potential road crossings were checked against USGS topographic maps and aerial imagery to determine if a potential road crossing was likely to exist or was an artifact of the intersection method (such as a road and stream running parallel which may intersect in their spatial data due to mapping inaccuracies, but not representing an actual stream crossing).

If a road crossing intersected an area of salt marsh, it was also given the additional classification of a road crossing within a tidal area. Beyond the aforementioned effects of road crossings on fish passage, these road crossings within tidal areas may cause additional stress due to their restriction on the natural exchange of tidal flows upstream of the crossing. This metric is calculated as the number of stream crossing per assessment unit land area.

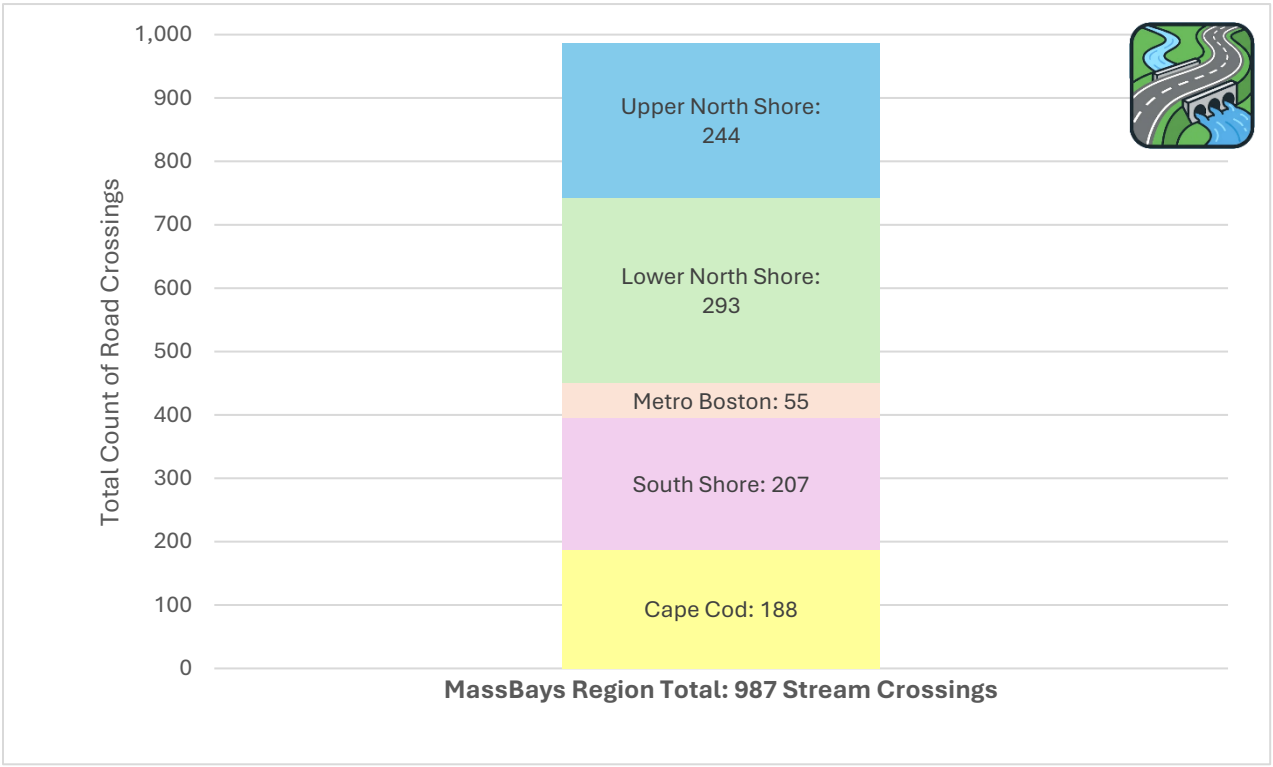


Figure 26. Stream Crossings (2025) in the MassBays Region



Public Coastal Beaches: Public coastal beaches represent both societal benefits and the potential for ecological stressors from human beach use and management (e.g., habitat disruption caused by beach raking). The following metrics were calculated for beaches:

1. **Beach Length and Area:** The length and area of public and semi-public coastal beaches was calculated based on the Massachusetts Department of Public Health's 2005 Marine Beach Layer and CZM's Coast Guide Online Public Access Sites (updated 2026). The CZM data was not available for EDA2 and as such beach area was not reported in EDA2. Instead, EDA2 reported on public access sites per mile of coastline. This metric was replaced by beach area to better represent public access in the 2026 ACRS. Beach length and area are also reported as the percentage of marine coastline and percentage of total watershed area.

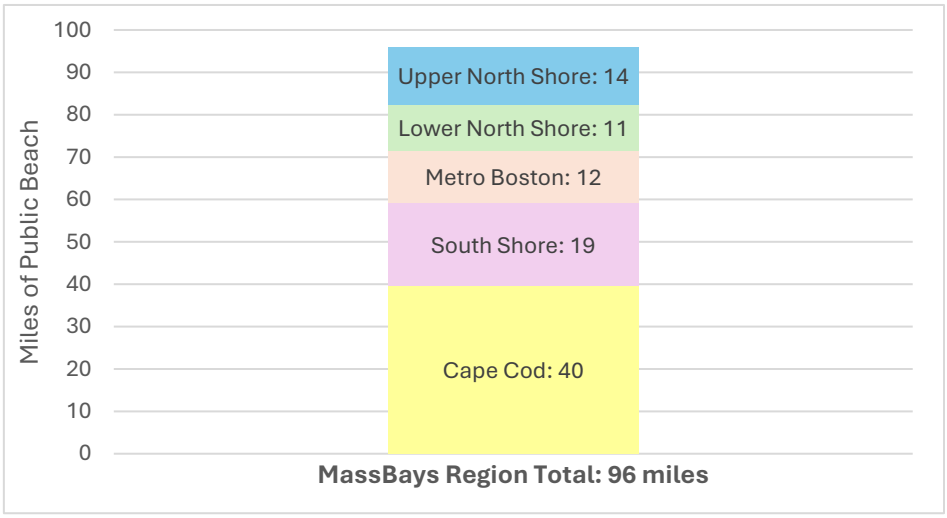


Figure 28. Miles of Public Beach (2005) in the MassBays Region

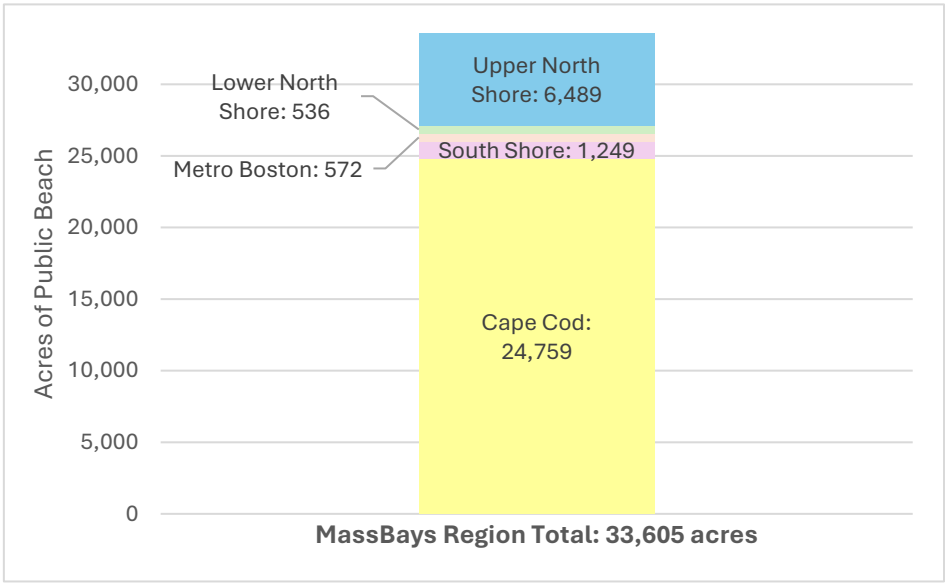


Figure 27. Acres of Public Beaches (2025) in the MassBays Region

2. **Beach Closures:** Beach closures and beach advisories (collectively defined as "Beach Action Days") for public and semi-public beaches are most often due to exceedances of state water quality standards for bacteria (e.g., *Enterococcus*, which is strongly correlated with presence of harmful pathogens in marine and freshwaters due to fecal contamination).



Data for Beach Action Days is presented as "Open Beach Days", calculated as the percentage of days that beaches are "open" (no beach closure or advisory) during the beach season (typically Memorial Day to Labor Day), with categories as follows:

Open Beach Days	% of Beach Season
Good	≥ 98% Open
Needs Improvement	90-98% Open
Challenged Beach	< 90% Open

An unknown number of Beach Action Days are unrelated to time-specific water quality problems (e.g., staffing issues, delays in sampling after a bacteria exceedance, etc.). Reporting on non-water quality Beach Action Days is not readily available.

Note: *These beach-related metrics are also considered to be social metrics, along with Recreational Boating Access Sites, as discussed in Section 3.4*).

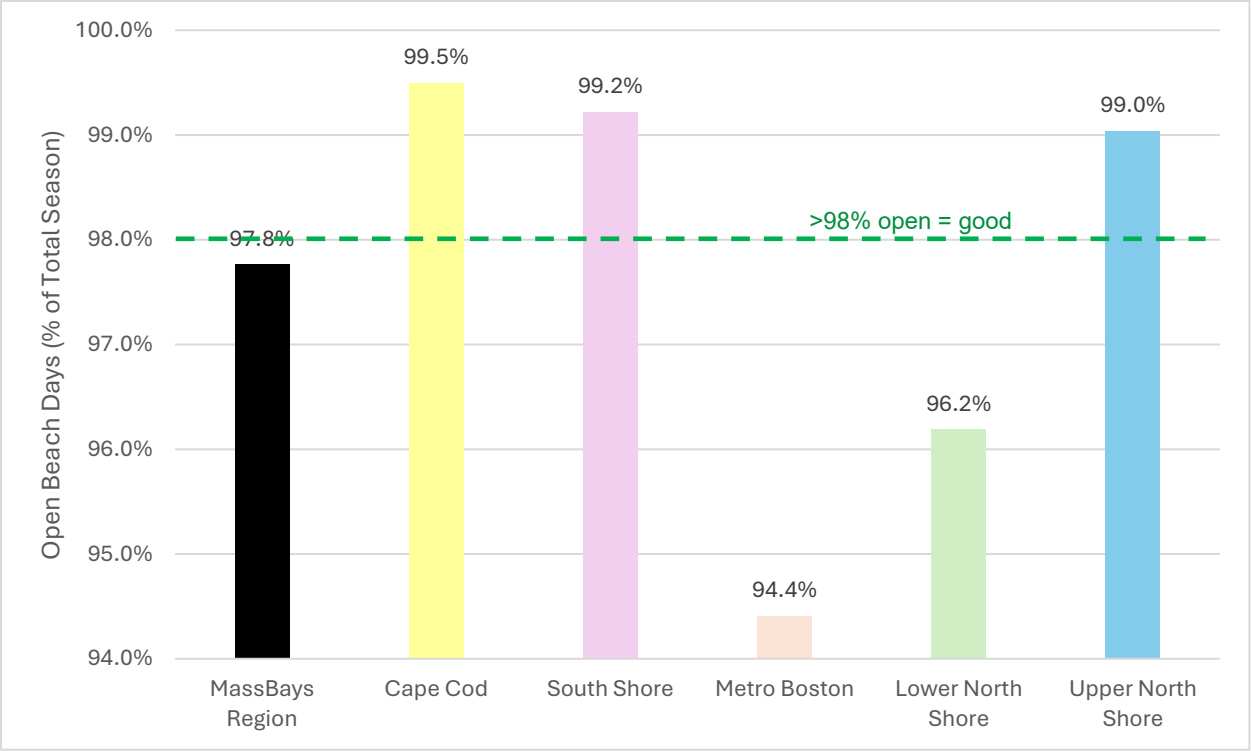


Figure 29. Open Beach Days (2016-2025 average) in the MassBays Region

Marinas: Marinas represent an environmental impact based on the frequency and extent of boat traffic and storage in an area. Boating can impact aquatic health via fuel pollution, boat-related turbulence, trash and debris, and other impacts. Marina boat slip data were compiled by CZM staff from public lists, databases, and visual inspection of orthoimagery. While not fully comprehensive, these data constitute a majority of marina-type resources.



Marinas are defined by CZM as facilities that cater to recreational yachtspersons and provide berths, moorings, maintenance and repair, hauling, storage, fuel, and/or other supplies. This metric is quantified as the number of marina boat slips divided by the area of open water within the estuarine assessment unit.

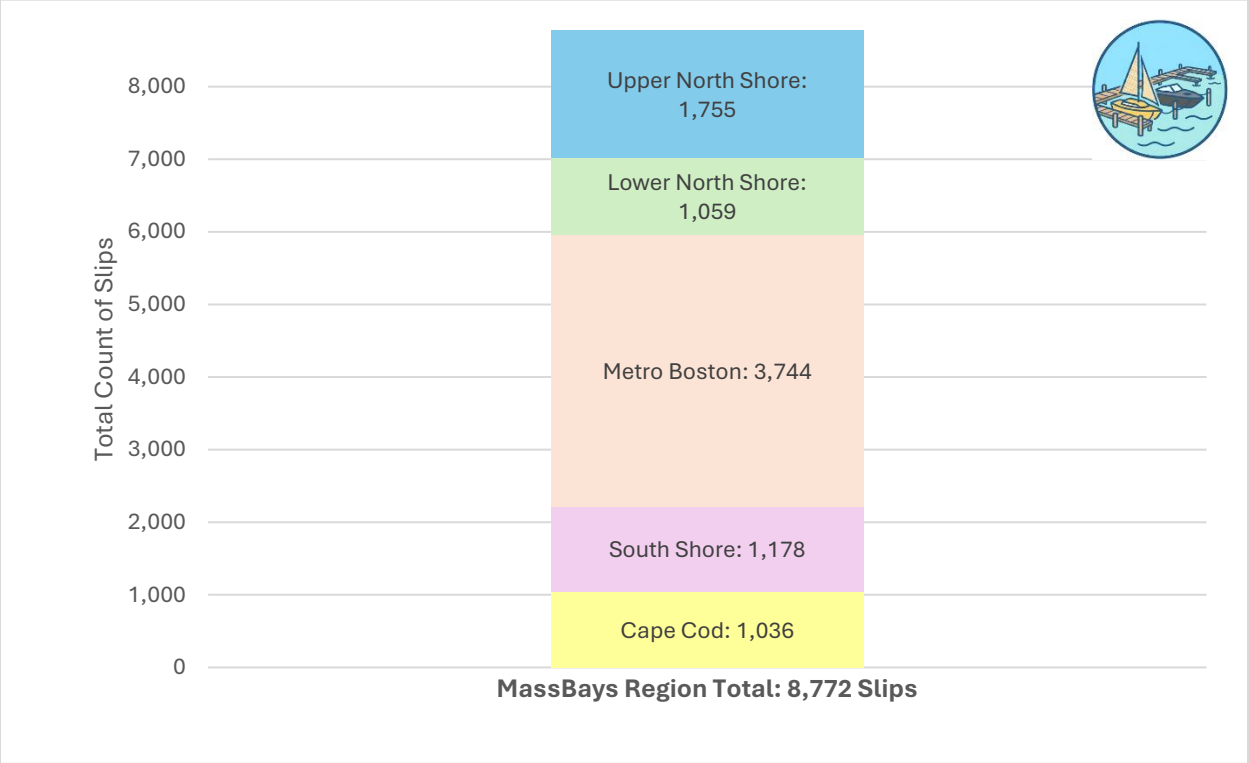


Figure 30. Number of Marina Boat Slips (2019) in the MassBays Region

Mooring Fields: Mooring fields represent potential aquatic environment impacts that are similar to marinas. They provide an insight into the frequency and extent of boat traffic in an area. Boating has the potential to impact aquatic health via fuel and heavy metal pollution, boat-related turbulence, trash and debris, and other impacts. Mooring field areas were created by CZM by digitizing visible mooring areas (ten or more moorings) using 2001 and 2005 aerial photography. The dataset was updated by CZM in 2025.



Mooring fields are quantified as the area of the mooring field divided by the area of open water within the estuarine assessment unit.

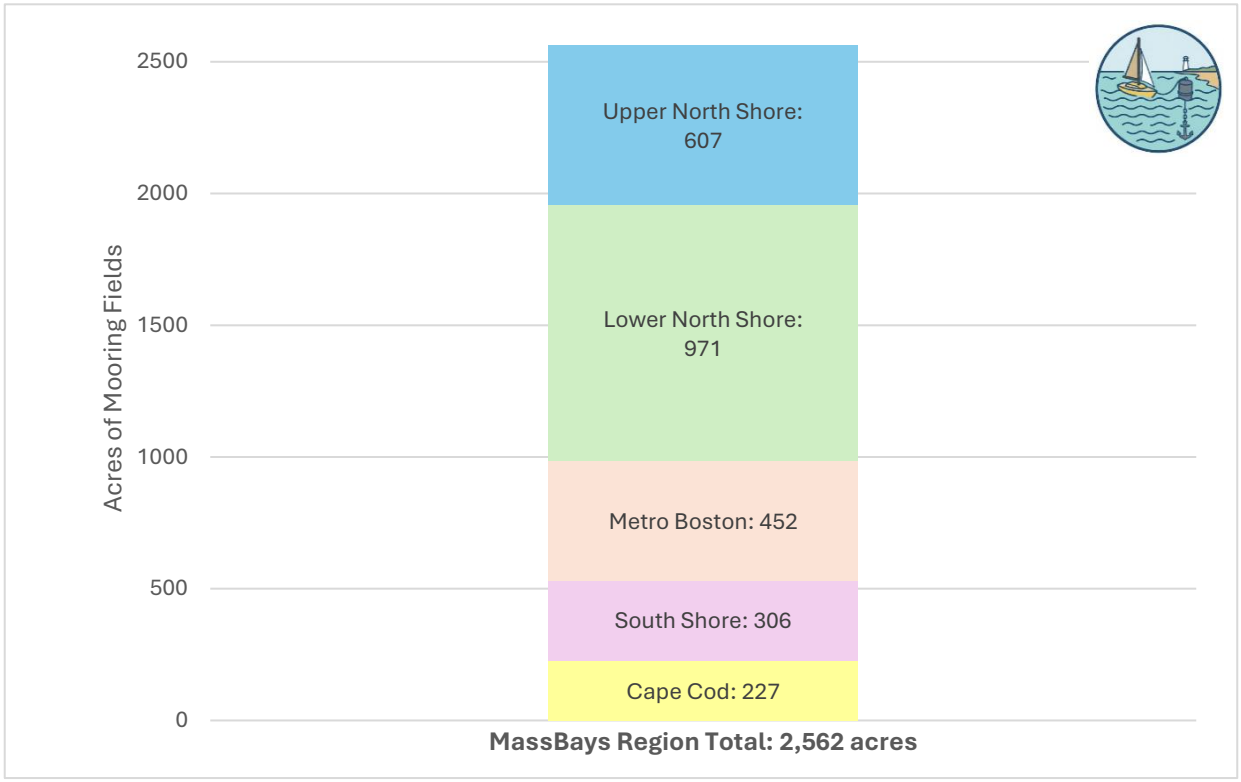


Figure 31. Mooring Field Area (2025) in the MassBays Region

Dredge Projects: CZM provides a polygons of federal (US Army Corps of Engineers) dredge projects conducted along the Massachusetts coastline up to 1998. Dredge projects are indicative of areas that are impacted by boating and access concerns and have potential impacts on estuarine benthic habitat.



The dredge projects metric is the area of the dredge project divided by the area of open water in the estuarine assessment unit.

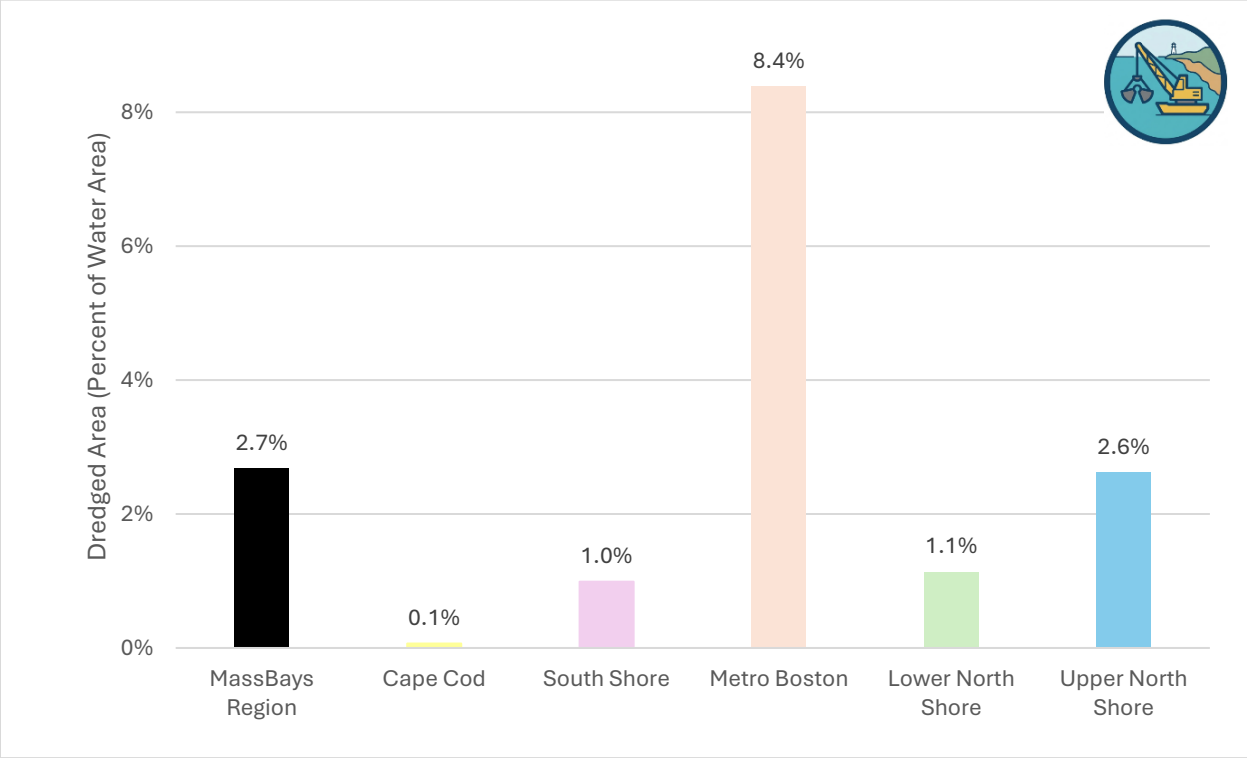
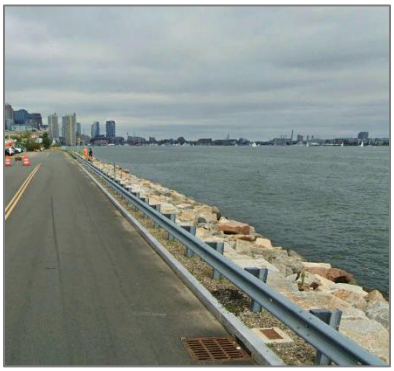


Figure 32. Dredged Area (through 1998) in the MassBays Region

Seawalls and Related Structures: Shoreline stabilization projects represent anthropogenic influence on shoreline morphology. The presence of public or private stabilization projects is indicative of human habitation or access issues present within the assessment area. CZM provides a range of sources for public and private shoreline stabilization projects in 2013 and 2015 along the Massachusetts Coast through the MORIS data viewer. This metric is the length of various stabilization projects divided by the length of coastline for the estuarine assessment unit.



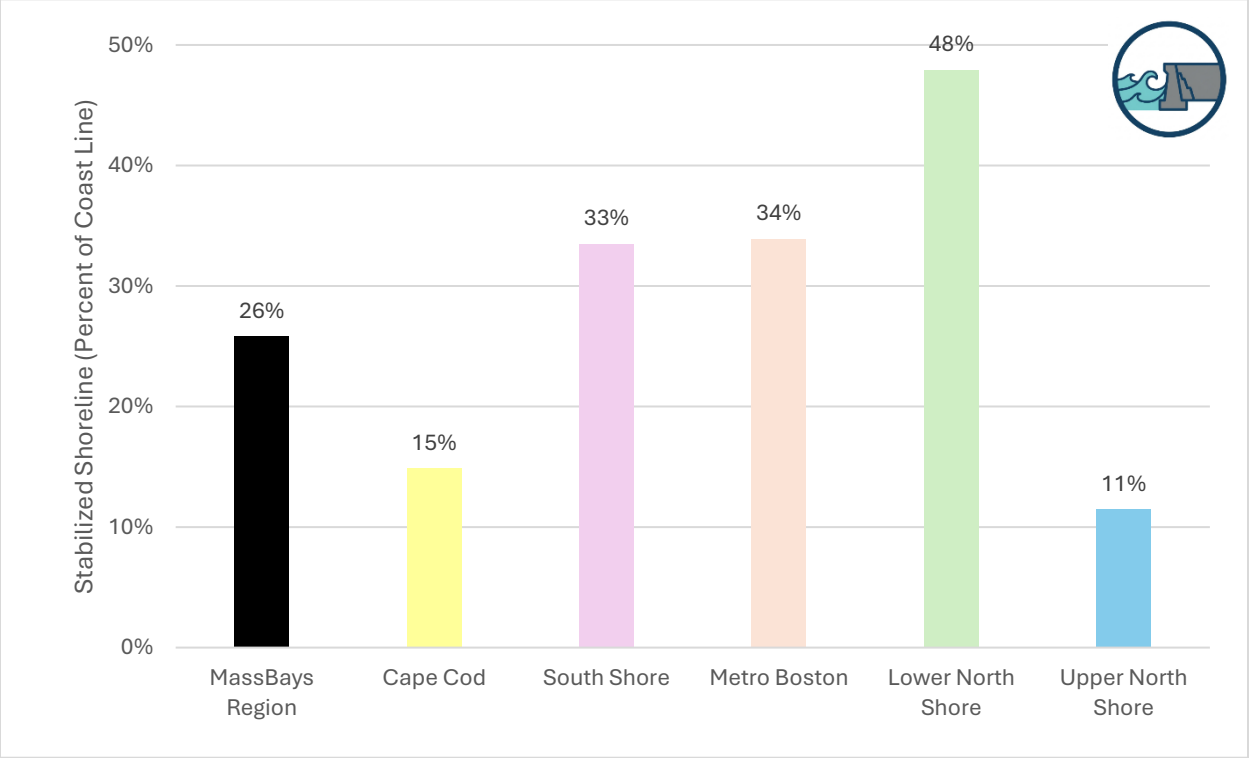


Figure 33. Percentage of Stabilized Shoreline (2013-2015) in the MassBays Region

Coastal Areas Prone to Flooding: Coastal areas prone to flooding are presented in this report based on the Federal Emergency Management Agency (FEMA) Velocity (VE) Zone. The VE Zone includes areas susceptible to inundation by the one percent annual chance flood event and destructive force of breaking waves.



Additional information on coastal flooding and projected impacts to coastal wetlands from sea level rise can be found in the Massachusetts Sea level Affecting Marshes Model (SLAMM) viewer.

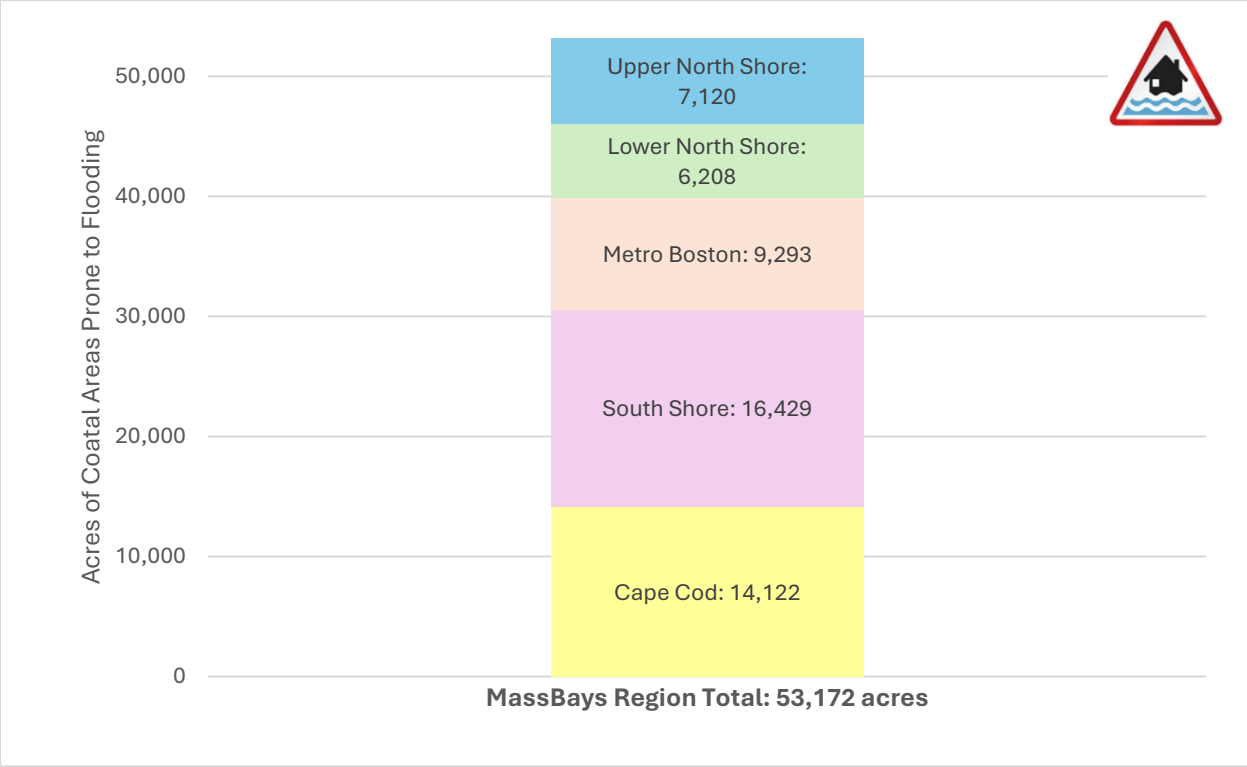


Figure 34. Coastal Areas Prone to Flooding (FEMA VE Zone, 2025) in the MassBays Region

3.4 Social Metrics

See Table 4 for links to the sources of social metric data described below. Appendix A includes the results of this study for all MassBays assessment areas.

Public Beaches: Social metrics for public and semi-public coastal beaches include beach water quality and beach access. See description of Public Beaches in Section 3.3 (Stressor Metrics).

Coastal Boating Access Sites: The CZM Coast Guide Online provides data on public access boat ramps and launches to waterways and waterbodies. This data is used to indicate the extent of recreational use present at estuarine and marine water bodies in the study area. Similar to mooring fields and marinas, boat access can also be viewed as a stressor to the marine environment (due to impacts associated with boat fuel, habitat disruption, etc.), although it is not explicitly included in the listing of stressor metrics.





This metric is calculated as the total number of boat ramps and cartop boat launches within an assessment unit. EDA2 previously reported this metric as the number of boat access parking spots available within each embayment. Due to the shift of data source to the Coast Guide Online Public Access layer, this calculation is no longer reportable.

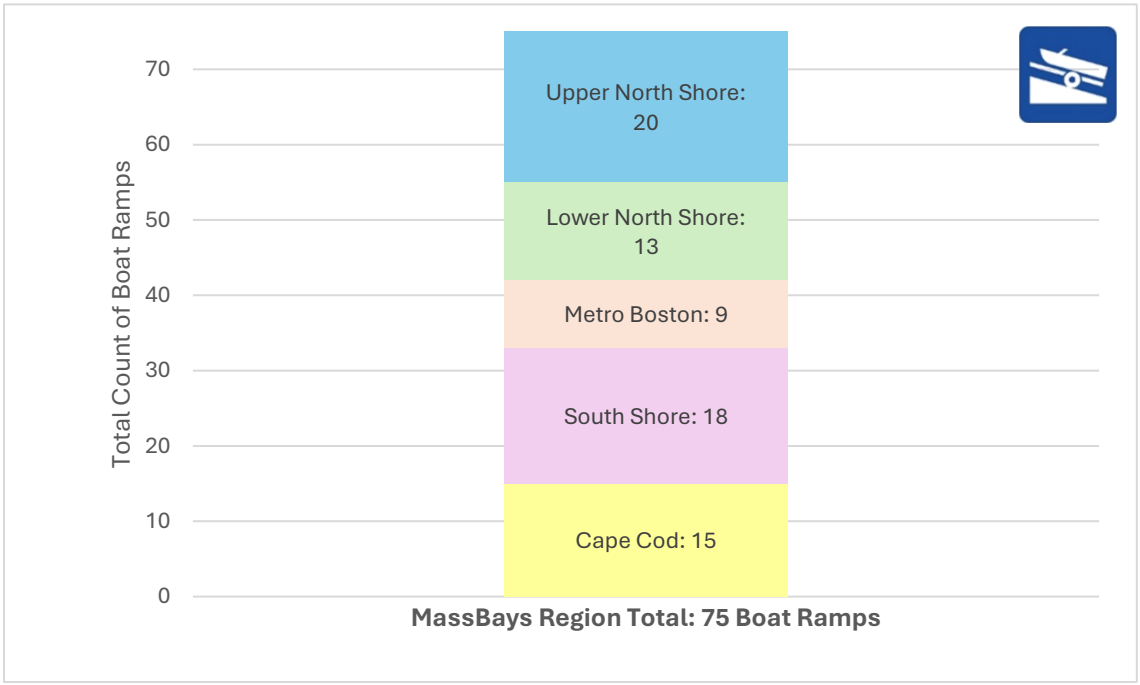


Figure 35. Public Boat Ramps (2025) in the MassBays Region

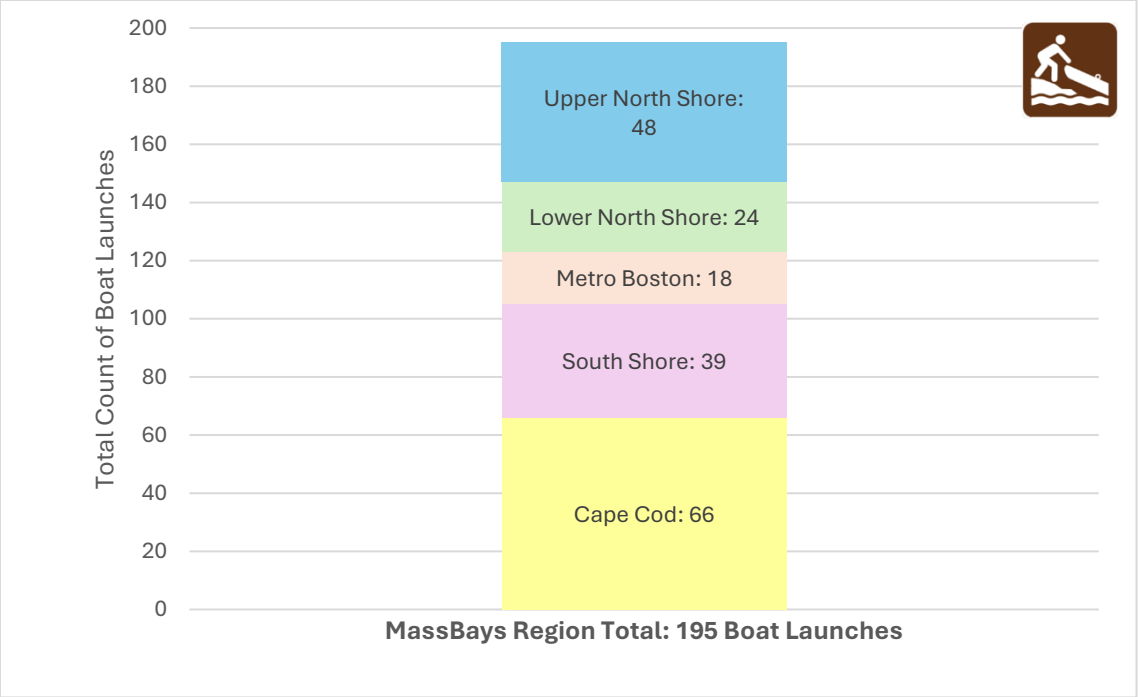


Figure 36. Cartop Boat Launches (2025) in the MassBays Region

Table 2. List of Resource Metrics

Metric	Raw Statistic	Normalized Statistic	Status	Source /URL	Details
Salt Marsh	Area	Percentage of total watershed area	**Updated**	USGS: Geospatial Characterization of Salt Marshes for Massachusetts (2021)	USGS Salt Marsh (2021) layer used to determine the extent of salt marsh.
Tidal Flat	Area	Percentage of total watershed area	Not updated	CZM MORIS: Intertidal Flats (2005)	Tidal flat areas obtained from Environmental Sensitivity Index (ESI) Shoreline Classification Layer, available from CZM MORIS
Eelgrass	Area	Percentage of estuary open water area	**Updated**	MADEP/MassGIS: Eelgrass Phase 6: 2019-2023	Eelgrass bed locations from 2019-2023 as mapped by MADEP and available via MassGIS
Shellfish Habitat	Area per species	Percentage of estuary open-water area per species; total shellfish habitat (species-acres)	Not updated	Division of Marine Fisheries: Shellfish Suitability Areas (2011)	Shellfish Suitability Areas, available via MassGIS
Shorebird Habitat	Area per species	Percentage of total watershed area per species	Not updated	NOAA: MORIS ESI Birds Poly (2016)	Shorebird habitat is obtained from the MA Environmental Sensitivity Index (ESI) geodatabase. Data was produced by CZM but retired from MORIS. However, data is still hosted by NOAA.
Shorebird Nesting Sites	Count	Count per total watershed area	Not updated	NOAA: MORIS ESI Nest Pts (2016)	Shorebird nesting sites are obtained from the MA Environmental Sensitivity Index (ESI) geodatabase. Data was produced by CZM but retired from MORIS. However, data is still hosted by NOAA.
Diadromous Fish – Migratory Habitat	Length per species	Accessible percentage of total potential migratory miles.	**Updated**	MassGIS/ Division of Marine Fisheries: Diadromous Fish (2023)	Diadromous fish passageways and habitat as mapped by MA DMF and available via MassGIS. In many cases, the migratory habitat extends upstream of the estuarine subwatershed boundary. These upstream segments were assigned to the downstream embayment in GIS.
Diadromous Fish – Spawning Habitat	Area per species	Accessible percentage of total potential spawning miles.	**New** for 2026 ACRS	MassGIS/ Division of Marine Fisheries: Diadromous Fish (2023)	Diadromous fish passageways and habitat as mapped by MA DMF and available via MassGIS. In many cases, the spawning habitat extends upstream of the estuarine subwatershed boundary. These upstream segments were assigned to the downstream embayment in GIS.
Rocky Intertidal Shore	Area	Percentage of total watershed area	Not updated	MADEP: Wetlands (2005)	Rocky intertidal shore is delineated in the MADEP wetlands inventory.
Sandy Beaches/Dunes	Area	Percentage of total watershed area	Not updated	MADEP: Wetlands (2005)	Coastal Beaches and Coastal Dunes are delineated in the MADEP wetlands inventory.
Protected Open Space	Area	Percentage of total watershed area	**New** for ACRS 2026	MassGIS: Protected and Recreational OpenSpace (2025)	Protected and Recreational Open Space data was queried for parcels with purpose code C (Conservation), B (Conservation/Recreation), F (Flood Control), W (Water Supply Protection) or Q (Habitat).

Table 3. List of Stressor Metrics

Metric	Raw Statistic	Normalized Statistic	Status	Source /URL	Details
High Intensity Land Use	Area	Percentage of watershed land area	**Updated**	MassGIS: Land Cover/ Land Use (2016)	All residential, commercial, industrial, agricultural, and transportation polygons from Land Cover/ Land Use (2016) data set
Approximate Annual Stormwater Discharge	Annual Volume	Volume per watershed land area	**Updated**	USDA: SSURGO (2025) MassGIS: Land Cover/ Land Use (2016)	Annual stormwater discharge was estimated using the Curve Number method. Curve numbers were be chosen based on soil hydrologic group and land use type for each watershed. The MassGIS Land Cover/ Land Use (2017) layer was intersected with the USDA soils map to create polygons with land use and hydrologic group attributes. These polygons were assigned appropriate curve numbers and annual storm water discharge for each polygon was calculated. Finally, all storm water discharges from individual polygons in each watershed were summed to estimate total watershed annual runoff.
Impervious Area	Area	Percentage of watershed land area	**Updated**	MassGIS: Land Cover/ Land Use (2016)	Impervious land cover within the Land Cover/ Land Use (2016) layer.
Population	Count	Density (population per area)	**Updated**	MassGIS: 2020 U.S. Census	Census 2020 blocks were used to create a population density statistic. The average population density value was multiplied by the land area to estimate a watershed population.
NPDES Sites (Active)	Count	NA	**New** for 2026 ACRS	USEPA: Envirofacts Warehouse	Dataset was created by searching EPA's Envirofacts Warehouse. The data was obtained by doing a search of the Permit Compliance System (PCS) database. All Massachusetts NPDES facilities with an active or "admin continued" status were selected, excluding construction projects requiring a NPDES Construction General Permit (due to the temporary nature of construction projects).
Wastewater Treatment Facilities	Count and Permitted Flowrate	NA	**Updated**		Dataset was created by searching EPA's Envirofacts Warehouse - Permit Compliance System (PCS) database. Massachusetts NPDES facilities with the SIC code "4952: SEWERAGE SYSTEM" were selected as wastewater treatment facilities. Facilities with "active" or "admin continued" status were selected. PCS data also contains permitted discharge rate for each plant.
Wastewater Discharges to Groundwater	Permitted Flow Rate	NA	**Updated**	MADEP: Groundwater Discharge Permits (2025)	MADEP inventory of facilities that are active and discharge either of the following to groundwater: - >10,000 gallons of sanitary wastewater - Any amount of industrial wastewater - Use reclaimed water in conjunction with a groundwater discharge.

Table 3 (continued)

Metric	Raw Statistic	Normalized Statistic	Status	Source /URL	Details
Septic System Use	Approx. population on septic systems	Percentage of watershed total population served by septic systems	**Updated**	MADEP: Sewer Service Areas (2025)	MADEP sewer service areas were intersected with US Census population data determine the approximate population served by sewer services and inversely septic systems and other on-site treatment systems.
Combined Sewer Overflows (CSOs)	Count	NA	**New** for 2026 ACRS	EPA: R1 Combined Sewer Outfall Locations (2022)	EPA compiled Massachusetts CSO data from MassDEP metadata and NPDES permits.
303(d) Impairment for Nutrients (Waterbodies)	Area of impaired waters	Area of impaired waters per area of classified waters	**Updated**	MADEP: 2022 305(b) list	MADEP lake and estuary polygons from 2022 MA Integrated List with impairments for Total Nitrogen, Toal Phosphorus, Ammonia, Phosphorus, Chlorophyll-*a*, Excess Algal Growth, or Nutrient/Eutrophication Biological Indicators
303(d) Impairment for Bacteria (Waterbodies)	Area of impaired waters	Area of impaired waters per area of classified waters	**Updated**	MADEP: 2022 305(b) list	MADEP lake and estuary polygons from the 2022 MA Integrated List with impairments for Fecal Coliform, *Enterococcus*, or *E. coli*.
303(d) Impairment for Dissolved Oxygen (Waterbodies)	Area of impaired waters	Area of impaired waters per area of classified waters	**New** for 2026 ACRS	MADEP: 2022 305(b) list	MADEP lake and estuary polygons from the 2022 MA Integrated List with impairment for Dissolved Oxygen.
303(d) Impairment for Estuarine Bioassessment (Waterbodies)	Area of impaired waters	Area of impaired waters per area of classified waters	**New** for 2026 ACRS	MADEP: 2022 305(b) list	MADEP lake and estuary polygons from the 2022 MA Integrated List with impairment for Estuarine Bioassessments.
303(d) Impairment for Nutrients (Rivers)	Length of impaired waters	Length of impaired waters per length of classified waters	**Updated**	MADEP: 2022 305(b) list	MADEP river lines from the 2022 MA Integrated List with impairments for Total Nitrogen, Toal Phosphorus, Ammonia, Phosphorus, Chlorophyll-a, Excess Algal Growth, or Nutrient/Eutrophication Biological Indicators
303(d) Impairment for Bacteria (Rivers)	Length of impaired waters	Length of impaired waters per length of classified waters	**Updated**	MADEP: 2022 305(b) list	MADEP river lines from the 2022 MA Integrated List with impairments for Fecal Coliform, *Enterococcus, or E. coli*.
303(d) Impairment for Dissolved Oxygen (Rivers)	Length of impaired waters	Length of impaired waters per length of classified waters	**New** for 2026 ACRS	MADEP: 2022 305(b) list	MADEP river lines from the 2022 MA Integrated List with impairments of Dissolved Oxygen.
303(d) Impairment for Estuarine Bioassessment (Rivers)	Length of impaired waters	Length of impaired waters per length of classified waters	**New** for 2026 ACRS	MADEP: 2022 305(b) list	MADEP river lines from the 2022 MA Integrated List with impairments for Estuarine Bioassessments.
Designated Shellfish Growing Area Classification	Area of each DSGA class	Percentage of estuary open water for each DSGA class	**Updated**	MA DMF: Designated Shellfish Growing Areas (2025)	Status was determined using the Division of Marine Fisheries "Designated Shellfish Growing Area (DSGA)" classification polygons. DSGAs fall into five categories ranging from Approved to Restricted.

Table 3 (continued)

Metric	Raw Statistic	Normalized Statistic	Status	Source /URL	Details
Number of Impoundments causing fish passage barriers	Count	Count per watershed land area	**Updated**	MassGIS/ Division of Marine Fisheries: Diadromous Fish (2023)	The Massachusetts Division of Marine Fisheries Restoration Projects layer (within the Diadromous Fish 2023 layer) inventories coastal river locations where structural features can influence fish passage. Data was filtered to select locations where fish passage status was fully or partially impaired. In many cases, the barriers extend upstream of the estuarine subwatershed boundary. These upstream barriers were assigned to the downstream embayment in GIS.
Number of Stream Crossings	Count	Count per watershed land area	**Updated**	MassGIS: MassDOT Roads (2025) USEPA: NHDPlus v2 01 NE	Massachusetts DOT road centerlines were intersected with the National Hydrography Plus v2 Dataset Flowlines to produce a stream crossings layer. A desktop quality control was performed by CEI.
Beach Action Days (*also a Social Metric*)	Count	Average from 2016-2025	**Updated**	MassGIS: Marine Beaches 2005 USEPA: BEACON 2.0	Public and semi-public beach locations and IDs from MassGIS database. USEPA BEACON 2.0 system reports number of action days for each monitored beach.
Mooring Fields	Area	Percentage of open water area	**Updated**	CZM: Mooring Fields (2025)	Mooring fields were digitized by CZM staff using 2001 and 2005 aerial imagery. Dataset was updated in 2025.
Dredge Projects	Area	Percentage of open water area	Not Updated	CZM/USACOE: Dredge Projects (Historical to 1998)	CZM and USACOE provide polygon coverage of dredging project locations through 1998.
Seawalls and related structures	Length	Miles per miles of coastline	**Updated**	CZM: Shoreline Stabilization Structures (2013 and 2015)	CZM provides polyline shapes of known shoreline stabilization projects in 2013 and 2015.
Boating Access (*also a Social Metric*)	Count	Number of boat launches and boat ramps	**Updated**	CZM: Coast Guide Online Public Access Sites	Public access locations are supplied by CZM. The layer includes coastal sites owned by the state, cities and towns, federal agencies, and private and non-profit entities. The coastal public access sites are parcel based where available, based on the MassGIS Level 3 Assessor Parcel Data. Queried for locations where "Launch" or "Boat Ramp" is "Yes".
Marinas	Count	Marina boat slip count per open water area	**Updated**	CZM: Marinas (2019)	Data provided by CZM and compiled from public lists, databases, and visual inspection of orthoimagery. Data show the locations of marinas, boatyards, yacht clubs, and related facilities along the Massachusetts coast.
Areas Prone to Flooding	Area	Percentage of total watershed area	**New** for 2026 ACRS	MassGIS: FEMA NFHL (2025)	The National Flood Hazard Layer dataset represents the current effective flood risk data for parts of the country where maps have been modernized by the Federal Emergency Management Agency (FEMA). Dataset was queried for the velocity (VE) flood zone, areas prone to inundation by 1% annual chance floods and destructive force of breaking waves.

Table 4. List of Social Metrics

Metric	Raw Statistic	Normalized Statistic	Status	Source	Details
Public Beaches (*also a Stressor Metric*)	Count, Length, and Area	Percentage of coastline and total watershed area	**Updated**	MassGIS: Marine Beaches 2005 CZM: Coast Guide Online Public Access Sites	Public and semi-public beach locations and IDs from MassGIS database. Public Access Sites layer was queried for sites where "Beach" was "Yes".
Beach Action Days (*also a Stressor Metric*)	Count	Average from 2016-2025 and Open Beach Day Status	**Updated**	MassGIS: Marine Beaches 2005 USEPA: BEACON 2.0	Public and semi-public beach locations and IDs from MassGIS database. USEPA BEACON 2.0 system reports number of action days for each monitored beach. Beach closure data also presented as "Open Beach Days", calculated as the percentage of days that beaches are open during the beach season (typically Memorial day to Labor Day (estimated 101 days annually)), within the following categories: Good (≥ 98% Open), Needs Improvement (<98% Open), Closure Challenged (<90% Open).
Boat Launches (*also a Stressor Metric*)	Count	NA	**Updated**	MassGIS: Office of Fishing and Boating Access Sites (2025)	Office of Fishing and Boating Access (OFBA) in the MA Dept. of Fish and Game provides point coverage of boating access sites. Queried for locations where "Launch" is "Yes".
Boat Ramps (*also a Stressor Metric*)	Count	NA	**Updated**	MassGIS: Office of Fishing and Boating Access Sites (2025)	Office of Fishing and Boating Access (OFBA) in the MA Dept. of Fish and Game provides point coverage of boating access sites. Queried for locations where "Boat Ramp" is "Yes".

4. How to Use This Report



The results of this study and associated data can be accessed in several formats. These data exploration tools allow users to search and filter the data for the things they care about: a particular town, water body, MassBays assessment unit, a specific habitat type, etc.

- The study results can be viewed as static series of table in PDF format in Appendix A.
- The data tables can also be downloaded in MS-Excel format.
- The 2026 Massachusetts Bays ACRS Viewer provides an interactive map and data viewer. Users can select which coastal metrics to view from a clickable menu.
    - The interactive map provides popup data tables for all metrics – just click on the any data point or polygon presented in the map to explore more detailed information from the data source layer.
    - The interactive map allows users to selectively see how different metrics and data types overlap and interact.
- For additional exploration of coastal water quality and habitats in the MassBays region, please see the MassBays Ecohealth Tracking Tool .

5. Next Steps

When preparing to develop this 2026 ACRS, MassBays and CEI staff determined that several potential new metrics should not be included at this time, either because they were lacking sufficient data, had data sets that were being updated but not yet available, or required additional more detailed analysis beyond the scope of this project. A summary of the current status of these data and potential for inclusion in next ACRS update is provided below.

5.1 Coastal Beach Access



Beach access data could be improved, but this would require significant research and data from beach managers. Although beaches are presented in this ACRS based on area and length, this type of data provides an incomplete reflection of public beach accessibility. Some beaches have multiple pedestrian access points, such as paths through dunes, but may have very little public parking or other accommodations. Other beaches, such as Revere Beach, may be accessible to the public along their entire length, and access point data would not reflect this broad accessibility. At minimum, beach access data should be developed to on par with the boating access data, which includes the number of parking spaces.

Parking lot data (# of parking spaces) is available, but it is not centralized in an accessible source. Data must be gathered from the entities that manage coastal beaches as summarized below.

Beach Parking Lot Data Sources	
Municipalities	• Most of the coastal beaches in Massachusetts are managed by municipalities. • Beach parking data varies greatly from town to town. Some towns list the number of parking spots on the town website (e.g., Recreation Department, etc.), while most only provide a general description.
MA Dept. of Conservation & Recreation (DCR)	• DCR manages state-owned beaches. Some information on parking (e.g., daily fees) is provided on the Mass.gov website, but not the number of parking spaces. • DCR may provide system-wide parking information if requested by MassBays.
Trustees of Reservations (TTOR)	• TTOR manages several coastal properties in the MassBays region • Although parking capacity is not readily available from the TTOR website, it may be possible to acquire this information with a data request from MassBays.
National Park Service (NPS)	• The NPS manages the Cape Cod National Seashore (CCNS). Information on parking lot capacity is not available on the official NPS website for the CCNS. • Parking capacity for specific lots is listed in the *2008 Cape Cod National Seashore Integrated Parking and Transit Study*. It may be possible to acquire updated information with a data request to NPS from MassBays

Conclusions: The biggest challenge and time requirement is acquiring data from municipalities in the region (50 total; approx. 40 located on open bays/ocean; approx. 10 on tidal rivers/estuaries). Non-municipal beach data require coordination/cooperation with DCR, TTOR, and NPS.

5.2 Kelp and Rockweed Beds



Region-wide habitat extent data for kelp and rockweed beds was pending development when EDA2 was published and is still not available as of June 2026. This data is being developed by CZM and the MA Division of Marine Fisheries.

This mapping effort is driven by Massachusetts Executive Order No. 618 (the Commonwealth's Biodiversity and the Blue Economy initiative), which includes a mandate to comprehensively map key coastal and marine habitats - specifically naming kelp, rockweed , and eelgrass. Although statewide habitat extent data (polygons) is not yet available, CZM is updating the existing Canopy-Forming Algal Beds (Kelps) point layer in MORIS as new data are validated.

Conclusion: A seamless statewide layer is anticipated for completion by 2030, and this new habitat extent data should be a high priority for inclusion in future ACRSs and the companion MassBays Ecohealth Tracking Tool.

5.3 Embayment Flushing and Bathymetric Data



As noted in EDA2 and recommended by the MassBays Science and Technical Advisory Committee (STAC), analyses of changing conditions in embayments would benefit from information on mean water depth, water volume (at mean tide) to support calculation of embayment flushing time.

Estimation of flushing time involves multiple variables and may never have been estimated for some embayments in the MassBays region. Studies which include tidal flushing estimates for embayments in the MassBays region include the following:

Woods Hole Group, Inc. (2019). MassBays Water Transport Times Estimation Project.

Note: This study includes 48 embayments using a 30-day MC-FRM tidal simulation and the modified tidal prism method.

Howes, B. L., Schlezinger, D. R., Samimy, R. I., & Ramsey, J. S. (2006). *Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for the Duxbury, Kingston, and Plymouth Harbor System, Duxbury/Kingston/Plymouth, Massachusetts*.

Howes, B. L., Samimy, R. I., Schlezinger, D. R., & Ramsey, J. S. (2017). *Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for the Barnstable Harbor System, Barnstable, Massachusetts*.

Howes, B. L., Samimy, R. I., Schlezinger, D. R., & Ramsey, J. S. (2017). *Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for the Wellfleet Harbor System, Wellfleet, Massachusetts*.

Signell, R. P., & Butman, B. (1992). Modeling Wind-Induced and Tidally Induced Transport in Boston Harbor, Massachusetts.

U.S. Army Corps of Engineers (USACE). (2007). Green Harbor, Marshfield, Massachusetts:

Section 1135 Restoration Feasibility Report. New England District: USACE.

Woods Hole Group, Inc. (2011). Pamet River Integrated Water Resources Management Plan: Hydrodynamic Modeling & Ecological Assessment. Prepared for the Town of Truro, MA.

Hubeny, J. B., Geagan, M., Gilligan, S., & Warren, B. (2017). Multi-century record of anthropogenic impacts on an urbanized mesotidal estuary: Salem Sound, MA. Environmental Earth Sciences, 76(18), Article 640.

Salem Sound 2000, & Salem Sound Coastwatch. (2000). Salem Sound volunteer wetland health assessment and water quality monitoring project (Technical Report). Salem Sound Coastwatch. Salem, MA.

Development of a coast-wide data set and methodology for calculating embayment flushing was recommended in EDA 2 as a key next step to refine the usefulness and robustness of EDA analyses.

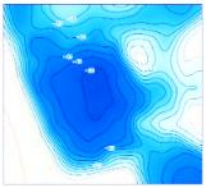
Tidal exchange and river inputs are the two primary processes on which a flushing estimate can be based. Tidal exchange can be estimated in a simple manner by using a **Modified Tidal Prism Model**. This approach is a standard method in coastal engineering for estimating the residence time of water in estuaries where tidal exchange is the dominant mechanism for flushing. In this approach, flushing time Tf is calculated using the following formula:

$$Tf = \frac{V * T}{P + (R * T)}$$

Variable Definitions

- Tf (Flushing Time): The estimated time in days required for the embayment to replace its entire volume with "new" water.
- V (Mean Embayment Volume): The total volume of water in the embayment at mean tide, typically measured in millions of cubic meters.
- P (Tidal Prism Volume): The volume of water that enters the embayment from the ocean between a single low tide and the subsequent high tide.
- R (Freshwater Inflow): The daily volume of freshwater entering from land-based sources, including rivers, streams, and groundwater discharge (m^3/day).
- T (Tidal Period): For the semidiurnal tides characteristic of the Massachusetts coast, a constant of 0.52 days (~12.42 hours) is used.

Estimates developed using the calculation described above could be refined over time with more intensive and costly modeling efforts (and would not be needed for embayments where modeling estimates already exist as listed above).



An important consideration for development of region-wide embayment flushing estimates is the availability of detailed **bathymetry for embayments**. Although a variety of high-quality bathymetric data is available for the Massachusetts coast, there is no single, uniform contour interval that covers the entire area. As

summarized below, the interval of the depth contours depends on the source of the data and the specific location.

Coastal Bathymetry Data Sources	

NOAA Nautical Charts
(ENCs and RNCs)
	• NOAA data is the most standard and widely used bathymetric data for navigation. This data is available as Electronic Navigational Charts (ENCs) and Raster Navigational Charts (RNCs).
	• Contours are typically provided in feet or fathoms (1 fathom = 6 feet). As summarized below, the intervals are not uniform:
	  ○ **Inshore/Shallow Areas:** Contours commonly at 3-foot, 6-foot, 12-foot, and 18-foot intervals. *Data is available for most MassBays embayments*.
	  ○ **Offshore/Deeper Areas:** As depth increases, intervals expand to 30-foot, 60-foot, 120-foot, and larger.

MassGIS Digital Elevation Models (DEMs)	• This is the most flexible and high-resolution data available for detailed analysis. A DEM is a continuous grid of elevation/depth values, not pre-drawn contour lines. The most recent and detailed data comes from topobathymetric LiDAR surveys.
	• DEMs allow for contours to be generated at any interval using GIS software. The underlying data resolution is often high enough to support:
	  ○ **1-meter contours** for nearshore and bay areas.
	  ○ **1-foot or 3-foot contours** for highly detailed local analysis.

NOAA NCEI Bathymetric Data	• The National Centers for Environmental Information (NCEI) provides the raw survey data and high-resolution DEMs used to develop NOAA nautical charts. • Data is provided as high-resolution DEMs, often with resolutions ranging from 1/9 arc-second (~3 meters) to 1/3 arc-second (~10 meters). • Similar to MassGIS DEMs, this data allows users to generate custom contours at very fine intervals, such as 1-meter.

Conclusions:

- To use pre-drawn contours for the MassBays region, the intervals will be in feet and will vary (higher resolution in shallower areas).
- For uses requiring high-resolution data and custom contours (e.g., more detailed, embayment-specific modeling), the best approach is to download a DEM from MassGIS or NCEI.

Development of a region-wide bathymetry data set in GIS and calculation of embayment tidal flushing times (where existing data is not available) is feasible, but was not within the scope/budget for the 2026 ACRS. Development of this data set is recommended as either an addendum to the 2026 ACRS or to support the next ACRS iteration.

Appendix A:

Data Tables for 2026 MassBays Assessment of Coastal Resources and Stressors

2026 ACRS Data Table: Habitat 1

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	Eelgrass Extent 2021 (acres)	Eelgrass Extent 2021 (% of Water Area)	Salt Marsh (acres)	Salt Marsh (% of watershed)	Tidal Flats (acres)	Tidal Flats (% of watershed)	Rocky Intertidal Shores (acres)	Rocky Intertidal Shores (% of Watershed)	Sandy Beaches (acres)	Sandy Beaches (% of watershed)	Protected Open Space (acres)	Protected Open Space (% of Watershed)
ANNISQUAM RIVER	Estuarine	5650	4540	1110	18.5	2%	678.7	12%	623.5	11%	19.9	0%	225.4	4%	888.8	20%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	9580	9578	0.0	0%	600.4	3%	1048.5	5%	16.6	0%	543.9	3%	994.9	10%
BARNSTABLE HARBOR	Estuarine	22302	18446	3856	0.0	0%	4021.3	18%	1660.1	7%	0.2	0%	1058.2	5%	8247.2	45%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	3682	480	0.0	0%	0.0	0%	0.0	0%	10.3	0%	60.2	1%	811.5	22%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	3085	1384	24.1	2%	298.6	7%	354.8	8%	6.8	0%	77.5	2%	267.2	9%
BLACK ROCK CREEK	Estuarine	3275	2746	529	0.0	0%	1114.9	34%	25.0	1%	0.0	0%	116.5	4%	522.3	19%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	1733	3600	0.0	0%	182.9	3%	507.6	10%	2.9	0%	86.0	2%	326.8	19%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	4852	8072	371.5	5%	1387.3	11%	1541.1	12%	13.1	0%	548.3	4%	1019.5	21%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	1320	461	0.0	0%	263.5	15%	279.5	16%	0.0	0%	25.5	1%	282.4	21%
BOSTON HARBOR ISLANDS	Estuarine	15712	1023	14689	70.4	0%	8.2	0%	170.9	1%	64.6	0%	292.1	2%	534.1	52%
BREWSTER COAST	Inter-Estuarine	6078	3511	2568	338.6	13%	0.0	0%	1071.3	18%	0.0	0%	54.0	1%	551.1	16%
CHASE GARDEN CREEK	Estuarine	5487	4700	787	15.1	2%	922.7	17%	473.8	9%	0.0	0%	123.6	2%	1333.6	28%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	13697	2825	1.5	0%	34.6	0%	198.3	1%	10.1	0%	61.5	0%	572.5	4%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	7922	4043	0.0	0%	4719.0	39%	1826.1	15%	1.6	0%	789.4	7%	5423.0	68%
COHASSET HARBOR	Estuarine	6005	4127	1878	15.3	1%	594.4	10%	255.3	4%	28.7	0%	111.7	2%	477.8	12%
DANVERS RIVER	Estuarine	19467	18755	713	0.0	0%	104.6	1%	379.0	2%	0.0	0%	17.6	0%	812.5	4%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	3677	1667	107.2	6%	36.2	1%	525.5	10%	0.0	0%	141.1	3%	193.9	5%
ELLISVILLE HARBOR	Estuarine	3579	2417	1162	44.8	4%	68.9	2%	0.0	0%	11.8	0%	103.8	3%	686.9	28%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	10535	2097	0.0	0%	3123.7	25%	1443.7	11%	3.1	0%	582.3	5%	4260.4	40%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	84	249	0.0	0%	0.0	0%	155.7	47%	0.0	0%	8.5	3%	12.3	15%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	3662	1132	8.0	1%	36.1	1%	171.2	4%	12.2	0%	24.5	1%	296.4	8%
GLOUCESTER HARBOR	Estuarine	3142	1583	1560	64.1	4%	18.9	1%	21.2	1%	57.2	2%	62.1	2%	249.2	16%
GOOD HARBOR	Inter-Estuarine	2638	2045	593	3.0	1%	91.5	3%	8.7	0%	96.8	4%	127.4	5%	330.3	16%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	3497	0	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	462.1	13%
GREEN HARBOR	Inter-Estuarine	5011	2957	2054	0.0	0%	151.0	3%	24.0	0%	19.0	0%	181.5	4%	938.0	32%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	881	0	0.0	0%	0.0	0%	0.0	0%	0.0	0%	2.2	0%	92.1	10%
HERRING RIVER / HERRING POND	Estuarine	1212	680	532	1.0	0%	270.2	22%	274.3	23%	0.0	0%	34.5	3%	210.0	31%
IPSWICH RIVER	Estuarine	6026	5616	410	0.0	0%	1303.9	22%	266.9	4%	0.0	0%	43.7	1%	1541.9	27%
JONES RIVER / KINGSTON BAY	Estuarine	7862	4950	2913	168.2	6%	257.0	3%	1350.4	17%	1.0	0%	28.4	0%	403.2	8%
KETTLE COVE	Inter-Estuarine	1514	1447	66	0.0	0%	30.1	2%	29.3	2%	8.8	1%	9.4	1%	224.0	15%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	1447	596	0.0	0%	0.0	0%	499.6	24%	0.0	0%	37.4	2%	35.6	2%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	1916	463	27.8	6%	1.7	0%	2.2	0%	65.6	3%	58.6	2%	446.0	23%
LITTLE HARBOR	Estuarine	1702	982	719	0.0	0%	54.8	3%	50.0	3%	25.3	1%	47.5	3%	247.3	25%
LONG BEACH	Inter-Estuarine	2503	1528	974	0.0	0%	42.9	2%	1.2	0%	85.9	3%	129.2	5%	189.2	12%
MAGNOLIA COAST	Inter-Estuarine	1022	614	408	12.2	3%	0.0	0%	0.0	0%	47.8	5%	47.1	5%	29.1	5%
MANCHESTER COAST	Inter-Estuarine	603	255	348	0.5	0%	0.0	0%	1.0	0%	22.3	4%	71.4	12%	12.8	5%
MANCHESTER HARBOR	Estuarine	4294	3966	329	124.1	38%	13.0	0%	60.4	1%	14.8	0%	10.1	0%	1193.4	30%
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5862	2053	0.0	0%	0.0	0%	0.0	0%	34.0	0%	184.6	2%	1862.4	32%

2026 ACRS Data Table: Habitat 1

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	Eelgrass Extent 2021 (acres)	Eelgrass Extent 2021 (% of Water Area)	Salt Marsh (acres)	Salt Marsh (% of watershed)	Tidal Flats (acres)	Tidal Flats (% of watershed)	Rocky Intertidal Shores (acres)	Rocky Intertidal Shores (% of Watershed)	Sandy Beaches (acres)	Sandy Beaches (% of watershed)	Protected Open Space (acres)	Protected Open Space (% of Watershed)
MARBLEHEAD HARBOR	Estuarine	1740	1178	562	9.9	2%	11.3	1%	29.8	2%	24.5	1%	29.7	2%	69.8	6%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	1695	1216	0.0	0%	0.0	0%	0.0	0%	34.6	1%	72.1	2%	87.6	5%
MERRIMACK RIVER	Estuarine	11900	8184	3715	0.0	0%	2660.1	22%	899.4	8%	8.3	0%	398.9	3%	1790.7	22%
NAHANT BAY	Inter-Estuarine	4769	1582	3187	91.8	3%	0.7	0%	0.0	0%	44.6	1%	300.8	6%	78.7	5%
NAMELOC HEIGHTS	Inter-Estuarine	2235	556	1680	47.9	3%	0.0	0%	0.0	0%	0.0	0%	99.6	4%	55.1	10%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	3106	945	0.0	0%	262.6	6%	518.9	13%	0.0	0%	53.6	1%	1482.3	48%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	9348	2472	0.0	0%	383.2	3%	467.1	4%	8.8	0%	134.3	1%	584.8	6%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	1196	290	36.0	12%	0.0	0%	175.3	12%	7.9	1%	98.0	7%	78.6	7%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	12710	2237	0.0	0%	2599.7	17%	445.4	3%	13.7	0%	280.2	2%	3474.0	27%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	3794	911	17.4	2%	69.4	1%	682.6	15%	0.0	0%	33.9	1%	1080.7	28%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	3672	1436	435.2	30%	341.8	7%	45.5	1%	0.0	0%	131.5	3%	1680.8	46%
PARKER RIVER	Estuarine	7663	7208	455	0.0	0%	2482.1	32%	77.4	1%	0.0	0%	14.2	0%	3392.7	47%
PROVINCETOWN COAST	Inter-Estuarine	8031	4378	3653	0.0	0%	149.6	2%	40.6	1%	0.0	0%	1899.1	24%	3953.5	90%
PROVINCETOWN HARBOR	Estuarine	7821	3779	4042	920.8	23%	440.2	6%	225.5	3%	5.5	0%	772.7	10%	2503.8	66%
QUIVETT CREEK	Estuarine	2247	1808	439	0.0	0%	247.7	11%	382.8	17%	0.0	0%	60.9	3%	625.0	35%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	1565	931	2.1	0%	0.0	0%	3.8	0%	47.0	2%	44.0	2%	280.0	18%
ROCKY POINT	Inter-Estuarine	1906	1085	821	0.0	0%	0.0	0%	0.0	0%	36.1	2%	70.9	4%	0.8	0%
ROWLEY RIVER	Estuarine	3184	2941	244	0.0	0%	1329.5	42%	94.9	3%	0.0	0%	0.1	0%	1111.2	38%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	5377	5574	452.4	8%	47.7	0%	86.3	1%	46.2	0%	134.1	1%	891.7	17%
SANDWICH HARBOR	Estuarine	8726	7818	908	12.5	1%	585.7	7%	23.2	0%	4.0	0%	159.4	2%	4012.1	51%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	10300	6829	389.4	6%	1119.9	7%	678.0	4%	46.9	0%	343.3	2%	1224.6	12%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	574	594	0.0	0%	7.1	1%	1.3	0%	22.4	2%	35.5	3%	0.0	0%
SCITUATE HARBOR	Estuarine	2554	1647	906	5.3	1%	112.5	4%	65.5	3%	37.4	1%	61.2	2%	157.9	10%
SCORTON CREEK	Estuarine	7673	7049	624	0.0	0%	450.0	6%	6.3	0%	0.0	0%	135.7	2%	1195.2	17%
SCUSSET BEACH	Inter-Estuarine	3414	2524	890	3.2	0%	135.2	4%	0.0	0%	0.0	0%	196.7	6%	803.1	32%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1651	46	0.0	0%	155.3	9%	6.6	0%	0.0	0%	10.1	1%	235.5	14%
TRURO COAST	Inter-Estuarine	5557	3475	2082	232.0	11%	148.7	3%	4.0	0%	0.0	0%	194.0	3%	1680.8	48%
WEIR RIVER / STRAITS POND	Estuarine	4320	3011	1309	0.0	0%	145.4	3%	173.5	4%	17.0	0%	191.4	4%	669.6	22%
WELLFLEET HARBOR	Estuarine	31968	12406	19561	388.9	2%	951.4	3%	1797.1	6%	0.0	0%	552.1	2%	6307.7	51%
WEST SANDWICH	Inter-Estuarine	3447	3422	25	0.0	0%	0.0	0%	0.0	0%	0.0	0%	6.8	0%	2418.9	71%
Total		438841	293359	145482	4461	3%	35268	8%	22231	5%	1086	0%	12642	3%	78909	27%

2026 ACRS Data Table: Shellfish Habitat

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American Oyster (acres)	American Oyster (%)	Bay Scallop (acres)	Bay Scallop (% of Water Area)	Blue Mussel (acres)	Blue Mussel (% of Water Area)	European Oyster (acres)	European Oyster (% of Water Area)	Ocean Quahog (acres)	Ocean Quahog (% of Water Area)	Quahog (acres)	Quahog (% of Water Area)	Razor Clam (acres)	Razor Clam (% of Water Area)	Sea Scallop (acres)	Sea Scallop (% of Water Area)	Soft-shell clam (acres)	Soft-shell clam (% of Water Area)	Surf Clam (acres)	Surf Clam (% of Water Area)	Total Shellfish Habitat (species-acres)	Total Shellfish Habitat (% of Water Area)
ANNISQUAM RIVER	Estuarine	5650	4540	1110	9.6	1%	0.0	0.0%	403.5	36%	79.1	7%	132.2	12%	38.2	3%	134.3	12%	0.0	0%	654.6	59%	174.7	16%	1626.2	146%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	9580	9578	0.0	0%	0.0	0.0%	1382.0	14%	303.3	3%	26.6	0%	0.0	0%	252.5	3%	0.0	0%	1985.5	21%	695.0	7%	4644.9	48%
BARNSTABLE HARBOR	Estuarine	22302	18446	3856	6.8	0%	118.6	3.1%	253.6	7%	0.0	0%	0.0	0%	752.5	20%	180.6	5%	0.0	0%	1826.8	47%	851.9	22%	3990.6	103%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	3682	480	0.0	0%	0.0	0.0%	64.3	13%	0.0	0%	10.3	2%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	10.3	2%	85.0	18%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	3085	1384	0.0	0%	0.0	0.0%	139.2	10%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	539.7	39%	0.0	0%	678.8	49%
BLACK ROCK CREEK	Estuarine	3275	2746	529	0.0	0%	0.0	0.0%	0.0	0%	0.0	0%	1.9	0%	0.0	0%	0.0	0%	75.1	14%	67.5	13%	373.5	71%	518.1	98%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	1733	3600	0.0	0%	0.0	0.0%	527.3	15%	473.5	13%	0.0	0%	63.8	2%	309.7	9%	0.0	0%	642.8	18%	0.0	0%	2017.0	56%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	4852	8072	72.8	1%	128.9	1.6%	2158.8	27%	0.0	0%	0.0	0%	2400.1	30%	815.6	10%	142.3	2%	1231.0	15%	1075.2	13%	8024.6	99%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	1320	461	44.8	10%	39.4	8.6%	0.0	0%	0.0	0%	0.0	0%	84.2	18%	105.9	23%	0.0	0%	77.4	17%	97.9	21%	449.5	98%
BOSTON HARBOR ISLANDS	Estuarine	15712	1023	14689	0.0	0%	0.0	0.0%	275.3	2%	7.1	0%	0.0	0%	0.0	0%	35.5	0%	236.3	2%	432.6	3%	0.0	0%	986.7	7%
BREWSTER COAST	Inter-Estuarine	6078	3511	2568	17.6	1%	474.0	18.5%	0.0	0%	0.0	0%	0.0	0%	864.8	34%	0.0	0%	0.0	0%	1128.0	44%	2292.7	89%	4777.1	186%
CHASE GARDEN CREEK	Estuarine	5487	4700	787	0.0	0%	0.0	0.0%	5.3	1%	0.0	0%	0.0	0%	6.4	1%	0.0	0%	0.0	0%	0.0	0%	649.4	82%	661.1	84%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	13697	2825	0.0	0%	0.0	0.0%	84.1	3%	0.0	0%	0.0	0%	0.0	0%	11.0	0%	0.0	0%	212.4	8%	0.0	0%	307.5	11%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	7922	4043	109.2	3%	0.0	0.0%	312.2	8%	23.6	1%	0.0	0%	10.2	0%	1111.2	27%	0.0	0%	1852.8	46%	702.2	17%	4121.4	102%
COHASSET HARBOR	Estuarine	6005	4127	1878	0.0	0%	0.0	0.0%	147.4	8%	0.0	0%	0.0	0%	0.7	0%	6.0	0%	0.0	0%	69.8	4%	36.4	2%	260.4	14%
DANVERS RIVER	Estuarine	19467	18755	713	0.0	0%	0.0	0.0%	74.6	10%	2.6	0%	0.0	0%	28.8	4%	0.0	0%	0.0	0%	339.8	48%	0.0	0%	445.7	63%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	3677	1667	0.0	0%	103.9	6.2%	611.5	37%	0.0	0%	0.0	0%	191.6	11%	232.2	14%	0.0	0%	295.4	18%	8.7	1%	1443.4	87%
ELLISVILLE HARBOR	Estuarine	3579	2417	1162	0.0	0%	0.0	0.0%	0.0	0%	0.0	0%	422.2	36%	0.0	0%	0.0	0%	0.0	0%	6.9	1%	468.7	40%	897.8	77%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	10535	2097	151.0	7%	0.0	0.0%	243.6	12%	0.0	0%	47.0	2%	8.1	0%	109.8	5%	0.0	0%	1418.6	68%	209.6	10%	2187.8	104%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	84	249	0.0	0%	0.0	0.0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	105.6	42%	0.0	0%	0.0	0%	0.3	0%	105.9	42%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	3662	1132	0.0	0%	0.0	0.0%	108.9	10%	131.2	12%	0.0	0%	60.2	5%	1.0	0%	0.0	0%	180.2	16%	0.0	0%	481.6	43%
GLOUCESTER HARBOR	Estuarine	3142	1583	1560	0.0	0%	0.0	0.0%	135.1	9%	138.2	9%	0.0	0%	5.4	0%	12.0	1%	0.0	0%	56.2	4%	19.6	1%	366.4	23%
GOOD HARBOR	Inter-Estuarine	2638	2045	593	0.0	0%	0.0	0.0%	103.9	18%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	4.1	1%	53.4	9%	161.3	27%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	3497	0	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%
GREEN HARBOR	Inter-Estuarine	5011	2957	2054	0.0	0%	0.0	0%	74.9	4%	0.0	0%	0.0	0%	1.1	0%	4.5	0%	0.0	0%	30.8	2%	246.3	12%	357.6	17%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	881	0	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%
HERRING RIVER / HERRING POND	Estuarine	1212	680	532	37.5	7%	2.9	1%	0.0	0%	0.0	0%	0.0	0%	40.5	8%	132.2	25%	0.0	0%	74.4	14%	91.7	17%	379.2	71%
IPSWICH RIVER	Estuarine	6026	5616	410	0.7	0%	0.0	0%	31.2	8%	0.0	0%	0.0	0%	0.0	0%	26.9	7%	0.0	0%	308.6	75%	0.0	0%	367.3	90%
JONES RIVER / KINGSTON BAY	Estuarine	7862	4950	2913	0.0	0%	0.0	0%	1646.2	57%	15.2	1%	0.0	0%	1274.9	44%	105.3	4%	0.0	0%	591.1	20%	450.6	15%	4083.3	140%
KETTLE COVE	Inter-Estuarine	1514	1447	66	0.0	0%	0.0	0%	19.4	29%	8.1	12%	8.1	12%	0.0	0%	5.5	8%	8.1	12%	22.3	34%	5.5	8%	77.0	116%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	1447	596	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	451.2	76%	0.0	0%	0.0	0%	0.0	0%	451.2	76%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	1916	463	0.7	0%	0.0	0%	116.8	25%	0.0	0%	143.7	31%	0.0	0%	3.9	1%	61.1	13%	14.4	3%	7.8	2%	348.3	75%
LITTLE HARBOR	Estuarine	1702	982	719	0.0	0%	0.0	0%	31.2	4%	0.0	0%	0.0	0%	6.7	1%	0.0	0%	0.0	0%	16.2	2%	0.0	0%	54.1	8%
LONG BEACH	Inter-Estuarine	2503	1528	974	3.6	0%	0.0	0%	105.2	11%	0.0	0%	0.3	0%	0.0	0%	0.0	0%	69.9	7%	3.6	0%	212.3	22%	394.9	41%
MAGNOLIA COAST	Inter-Estuarine	1022	614	408	0.0	0%	0.0	0%	48.0	12%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	9.6	2%	6.1	1%	63.6	16%
MANCHESTER COAST	Inter-Estuarine	603	255	348	0.0	0%	0.0	0%	49.6	14%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	12.5	4%	130.0	37%	192.1	55%
MANCHESTER HARBOR	Estuarine	4294	3966	329	4.0	1%	0.0	0%	68.0	21%	5.6	2%	0.0	0%	15.5	5%	0.0	0%	0.0	0%	30.6	9%	0.0	0%	123.7	38%

2026 ACRS Data Table: Shellfish Habitat

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American Oyster (acres)	American Oyster (%)	Bay Scallop (acres)	Bay Scallop (% of Water Area)	Blue Mussel (acres)	Blue Mussel (% of Water Area)	European Oyster (acres)	European Oyster (% of Water Area)	Ocean Quahog (acres)	Ocean Quahog (% of Water Area)	Quahog (acres)	Quahog (% of Water Area)	Razor Clam (acres)	Razor Clam (% of Water Area)	Sea Scallop (acres)	Sea Scallop (% of Water Area)	Soft-shell clam (acres)	Soft-shell clam (% of Water Area)	Surf Clam (acres)	Surf Clam (% of Water Area)	Total Shellfish Habitat (species-acres)	Total Shellfish Habitat (% of Water Area)
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5862	2053	0.0	0%	0.0	0%	26.2	1%	0.0	0%	1274.0	62%	0.0	0%	0.0	0%	0.0	0%	25.1	1%	1274.0	62%	2599.3	127%
MARBLEHEAD HARBOR	Estuarine	1740	1178	562	24.8	4%	0.0	0%	42.4	8%	0.0	0%	0.0	0%	23.8	4%	0.0	0%	0.0	0%	59.6	11%	0.0	0%	150.6	27%
MARBLEHEAD NECK/ SWAMPSCOTT COAST	Inter-Estuarine	2911	1695	1216	0.0	0%	0.0	0%	78.7	6%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	544.9	45%	623.6	51%
MERRIMACK RIVER	Estuarine	11900	8184	3715	0.0	0%	0.0	0%	1333.7	36%	0.0	0%	8.1	0%	0.0	0%	681.5	18%	81.1	2%	1183.7	32%	503.8	14%	3791.9	102%
NAHANT BAY	Inter-Estuarine	4769	1582	3187	0.0	0%	0.0	0%	1820.7	57%	19.6	1%	0.0	0%	0.0	0%	0.0	0%	314.6	10%	31.0	1%	318.8	10%	2504.5	79%
NAMELOC HEIGHTS	Inter-Estuarine	2235	556	1680	0.0	0%	0.0	0%	0.0	0%	0.0	0%	669.3	40%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	836.5	50%	1505.8	90%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	3106	945	0.0	0%	45.1	5%	0.0	0%	0.0	0%	0.0	0%	49.0	5%	148.7	16%	0.0	0%	332.6	35%	593.2	63%	1168.6	124%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	9348	2472	0.0	0%	0.0	0%	370.8	15%	0.0	0%	0.0	0%	0.0	0%	146.9	6%	0.0	0%	604.2	24%	0.0	0%	1121.8	45%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	1196	290	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	77.4	27%	77.4	27%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	12710	2237	12.4	1%	0.0	0%	377.4	17%	0.0	0%	0.0	0%	69.3	3%	116.4	5%	0.0	0%	201.2	9%	616.2	28%	1392.8	62%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	3794	911	4.6	1%	0.0	0%	4.6	1%	0.0	0%	0.0	0%	74.0	8%	0.0	0%	0.0	0%	863.5	95%	773.2	85%	1719.9	189%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	3672	1436	6.5	0%	0.0	0%	0.7	0%	0.0	0%	0.0	0%	49.6	3%	0.0	0%	18.1	1%	22.2	2%	1212.4	84%	1309.4	91%
PARKER RIVER	Estuarine	7663	7208	455	199.9	44%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	48.5	11%	0.0	0%	219.4	48%	0.0	0%	467.7	103%
PROVINCETOWN COAST	Inter-Estuarine	8031	4378	3653	0.0	0%	0.0	0%	5.2	0%	0.0	0%	99.3	3%	24.6	1%	0.0	0%	83.8	2%	26.2	1%	3350.0	92%	3589.1	98%
PROVINCETOWN HARBOR	Estuarine	7821	3779	4042	16.8	0%	22.0	1%	17.0	0%	0.0	0%	0.0	0%	677.5	17%	0.0	0%	0.0	0%	126.2	3%	2216.7	55%	3076.3	76%
QUIVETT CREEK	Estuarine	2247	1808	439	15.5	4%	0.0	0%	15.5	4%	0.0	0%	0.0	0%	15.5	4%	0.0	0%	0.0	0%	461.9	105%	259.7	59%	768.2	175%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	1565	931	0.0	0%	0.0	0%	195.7	21%	0.0	0%	600.3	64%	0.0	0%	0.0	0%	594.0	64%	4.8	1%	611.6	66%	2006.4	216%
ROCKY POINT	Inter-Estuarine	1906	1085	821	0.0	0%	0.0	0%	148.9	18%	0.0	0%	125.6	15%	0.0	0%	0.0	0%	0.0	0%	44.3	5%	0.0	0%	318.9	39%
ROWLEY RIVER	Estuarine	3184	2941	244	1.1	0%	0.0	0%	3.5	1%	0.0	0%	0.0	0%	0.0	0%	195.9	80%	0.0	0%	209.1	86%	0.0	0%	409.6	168%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	5377	5574	0.0	0%	0.0	0%	252.1	5%	84.5	2%	0.0	0%	71.0	1%	0.0	0%	737.2	13%	196.1	4%	111.3	2%	1452.2	26%
SANDWICH HARBOR	Estuarine	8726	7818	908	0.0	0%	0.0	0%	419.9	46%	0.0	0%	0.0	0%	34.9	4%	0.0	0%	0.0	0%	59.0	7%	180.0	20%	693.9	76%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	10300	6829	0.0	0%	0.0	0%	770.7	11%	0.0	0%	0.0	0%	0.0	0%	57.5	1%	0.0	0%	634.9	9%	25.3	0%	1488.4	22%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	574	594	0.0	0%	0.0	0%	33.3	6%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	1.9	0%	35.2	6%
SCITUATE HARBOR	Estuarine	2554	1647	906	0.0	0%	0.0	0%	36.3	4%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	36.3	4%
SCORTON CREEK	Estuarine	7673	7049	624	0.0	0%	0.0	0%	391.5	63%	0.0	0%	3.9	1%	22.5	4%	0.0	0%	4.5	1%	22.5	4%	357.8	57%	802.7	129%
SCUSSET BEACH	Inter-Estuarine	3414	2524	890	0.0	0%	0.0	0%	96.0	11%	0.0	0%	314.6	35%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	379.3	43%	789.9	89%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1651	46	6.5	14%	0.0	0%	14.1	31%	0.0	0%	0.0	0%	14.8	33%	0.0	0%	0.0	0%	3.9	9%	0.0	0%	39.3	86%
TRURO COAST	Inter-Estuarine	5557	3475	2082	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	63.2	3%	0.0	0%	28.1	1%	0.0	0%	1715.7	82%	1806.9	87%
WEIR RIVER / STRAITS POND	Estuarine	4320	3011	1309	0.0	0%	0.0	0%	426.4	33%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	348.8	27%	180.8	14%	956.0	73%
WELLFLEET HARBOR	Estuarine	31968	12406	19561	1699.4	9%	8397.3	43%	26.5	0%	0.0	0%	0.0	0%	9844.9	50%	51.3	0%	0.0	0%	427.0	2%	11111.8	57%	31558.3	161%
WEST SANDWICH	Inter-Estuarine	3447	3422	25	0.0	0%	0.0	0%	25.6	101%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	25.6	101%
Total		438841	293359	145482	2446	2%	9332	6%	16154	11%	1292	1%	3887	3%	16888	12%	5599	4%	2454	2%	20243	14%	36122	25%	114418	79%

2026 ACRS Data Table: Diadromous Fish Habitat

Assessment Unit	Type	Potential Migratory Miles (miles)	Accessible Migratory Habitat (miles)	Accessible Migratory Habitat (% of Potential)	Accessible Smelt Spawning Habitat (miles)	Accessible Smelt Spawning Habitat (% of Potential)	Potential Herring Spawning (acres)	Accessible Herring Spawning Habitat (acres)	Accessible Herring Spawning Habitat (% of Potential)
ANNISQUAM RIVER	Estuarine	9.3	7.0	76%	0.1	1%	285.0	44.0	15%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	34.7	20.7	60%	2.4	7%	1094.0	181.0	17%
BARNSTABLE HARBOR	Estuarine	4.4	4.4	100%	0.0	0%	22.0	22.0	100%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	3.4	3.4	100%	0.0	0%	92.0	92.0	100%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
BLACK ROCK CREEK	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
BLACKS CREEK / QUINCY BAY	Estuarine	2.0	2.0	100%	0.3	15%	0.0	0.0	0%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	5.8	5.8	100%	0.0	0%	98.0	7.0	7%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1.5	1.5	100%	0.0	0%	16.0	16.0	100%
BOSTON HARBOR ISLANDS	Estuarine	150.7	100.6	67%	0.0	0%	2462.0	1361.0	55%
BREWSTER COAST	Inter-Estuarine	0.3	0.2	55%	0.0	0%	23.0	0.0	0%
CHASE GARDEN CREEK	Estuarine	5.6	5.6	100%	0.0	0%	48.0	48.0	100%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	83.7	55.7	67%	0.2	0%	1116.0	1059.0	95%
COASTAL PLUM ISLAND SOUND	Estuarine	80.9	58.4	72%	0.0	0%	1044.0	749.0	72%
COHASSET HARBOR	Estuarine	9.1	9.1	100%	0.0	0%	184.0	184.0	100%
DANVERS RIVER	Estuarine	10.7	10.2	95%	0.3	3%	19.4	0.2	1%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	7.5	7.5	100%	0.3	3%	353.0	347.0	98%
ELLISVILLE HARBOR	Estuarine	1.2	0.7	56%	0.0	0%	29.0	0.0	0%
ESSEX RIVER / ESSEX BAY	Estuarine	11.6	11.0	95%	0.1	1%	259.0	204.0	79%
FIRST ENCOUNTER BEACH	Inter-Estuarine	1.3	1.3	100%	0.0	0%	119.0	119.0	100%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	3.1	3.1	100%	0.0	0%	0.0	0.0	0%
GLOUCESTER HARBOR	Estuarine	0.2	0.0	9%	0.0	0%	7.0	0.0	0%
GOOD HARBOR	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	4.9	4.9	100%	0.0	0%	496.0	496.0	100%
GREEN HARBOR	Inter-Estuarine	2.1	2.1	100%	0.0	0%	0.0	0.0	0%
HERRING BROOK / GREAT POND	Inter-Estuarine	1.3	1.3	100%	0.0	0%	119.0	119.0	100%
HERRING RIVER / HERRING POND	Estuarine	1.3	1.3	100%	0.0	0%	44.0	44.0	100%
IPSWICH RIVER	Estuarine	44.1	26.3	60%	0.3	1%	771.0	576.0	75%
JONES RIVER / KINGSTON BAY	Estuarine	16.1	15.2	94%	1.1	7%	1275.0	693.0	54%
KETTLE COVE	Inter-Estuarine	0.3	0.3	100%	0.0	0%	0.0	0.0	0%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
LITTLE HARBOR	Estuarine	1.3	1.3	100%	0.0	0%	0.0	0.0	0%
LONG BEACH	Inter-Estuarine	1.2	1.2	100%	0.0	1%	0.0	0.0	0%
MAGNOLIA COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
MANCHESTER COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
MANCHESTER HARBOR	Estuarine	1.2	1.2	100%	0.2	17%	1.0	1.0	100%
MANOMET / INDIAN BROOK	Inter-Estuarine	0.5	0.5	97%	0.0	0%	8.0	0.0	0%

2026 ACRS Data Table: Diadromous Fish Habitat

Assessment Unit	Type	Potential Migratory Miles (miles)	Accessible Migratory Habitat (miles)	Accessible Migratory Habitat (% of Potential)	Accessible Smelt Spawning Habitat (miles)	Accessible Smelt Spawning Habitat (% of Potential)	Potential Herring Spawning (acres)	Accessible Herring Spawning Habitat (acres)	Accessible Herring Spawning Habitat (% of Potential)
MARBLEHEAD HARBOR	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
MERRIMACK RIVER	Estuarine	126.4	78.8	62%	0.0	0%	435.0	0.0	0%
NAHANT BAY	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
NAMELOC HEIGHTS	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	14.7	6.4	44%	0.3	2%	0.0	0.0	0%
NOBSCUSSET HARBOR	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
NORTH RIVER / SOUTH RIVER	Estuarine	55.8	51.7	93%	0.8	1%	680.0	467.0	69%
PAINE'S CREEK / STONY BROOK	Estuarine	4.2	4.2	100%	0.0	0%	423.0	423.0	100%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	2.0	2.0	100%	0.0	0%	0.0	0.0	0%
PARKER RIVER	Estuarine	28.8	26.0	90%	0.6	2%	247.0	173.0	70%
PROVINCETOWN COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
PROVINCETOWN HARBOR	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
QUIVETT CREEK	Estuarine	2.5	2.5	100%	0.0	0%	4.0	4.0	100%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	0.9	0.2	18%	0.0	0%	8.0	0.0	0%
ROCKY POINT	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
ROWLEY RIVER	Estuarine	7.4	5.6	76%	0.2	3%	26.0	0.0	0%
SALEM SOUND / BEVERLY HARBOR	Estuarine	15.5	15.0	97%	0.0	0%	20.4	1.2	6%
SANDWICH HARBOR	Estuarine	2.9	2.9	100%	0.0	0%	45.0	45.0	100%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	15.4	11.2	72%	0.2	1%	698.0	19.0	3%
SCITUATE / COHASSET COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
SCITUATE HARBOR	Estuarine	0.3	0.3	100%	0.0	8%	0.0	0.0	0%
SCORTON CREEK	Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
SCUSSET BEACH	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
SESUIT CREEK / SESUIT HARBOR	Estuarine	2.2	2.2	100%	0.0	0%	63.0	63.0	100%
TRURO COAST	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
WEIR RIVER / STRAITS POND	Estuarine	15.2	15.2	100%	0.2	1%	252.0	121.0	48%
WELLFLEET HARBOR	Estuarine	6.0	6.0	100%	0.0	0%	205.0	202.0	99%
WEST SANDWICH	Inter-Estuarine	0	0	0%	0.0	0%	0.0	0.0	0%
Total		801	594	74%	8	1%	13091	7880	60%

2026 ACRS Data Table: Shorebird Habitat

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American bittern Habitat (acres)	American black duck Habitat (acres)	Arctic tern Habitat (acres)	Bald eagle Habitat (acres)	Black-bellied plover Habitat (acres)	Black-crowned night-heron Habitat (acres)	Brant Habitat (acres)	Canada goose Habitat (acres)	Common moorhen Habitat (acres)	Common tern Habitat (acres)	Diving ducks Habitat (acres)	Double-crested cormorant Habitat (acres)	Dunlin Habitat (acres)	Eiders Habitat (acres)	Great black-backed gull Habitat (acres)	Great egret Habitat (acres)	Harlequin duck Habitat (acres)	Herring gull Habitat (acres)
ANNISQUAM RIVER	Estuarine	5650	4540	1110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	9580	9578	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	12.6	0.0	3.7	0.0	357.1	3.7	3.7	0.0	3.7
BARNSTABLE HARBOR	Estuarine	22302	18446	3856	0.0	7840.7	0.0	0.0	0.0	0.0	0.0	7840.7	0.0	76.8	0.0	0.0	0.0	7840.7	0.0	0.0	0.0	0.0
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	3682	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	3085	1384	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BLACK ROCK CREEK	Estuarine	3275	2746	529	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1107.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BLACKS CREEK / QUINCY BAY	Estuarine	5334	1733	3600	0.0	112.1	0.0	0.0	0.0	0.0	112.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	4852	8072	0.0	5443.4	0.0	0.0	0.0	0.0	5443.4	0.0	0.0	0.0	0.0	0.0	0.0	5443.4	0.0	0.0	0.0	0.0
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	1320	461	0.0	0.0	0.0	0.0	0.0	0.0	349.0	349.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BOSTON HARBOR ISLANDS	Estuarine	15712	1023	14689	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7273.0	0.0	0.0	0.0	0.0
BREWSTER COAST	Inter-Estuarine	6078	3511	2568	0.0	0.0	0.0	0.0	0.0	0.0	128.7	128.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHASE GARDEN CREEK	Estuarine	5487	4700	787	0.0	1776.3	0.0	0.0	0.0	0.0	0.0	1776.3	0.0	68.6	0.0	0.0	0.0	1776.3	0.0	0.0	0.0	0.0
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	13697	2825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COASTAL PLUM ISLAND SOUND	Estuarine	11965	7922	4043	5101.5	5101.5	0.0	0.0	0.0	0.0	0.0	5101.5	5101.5	5101.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COHASSET HARBOR	Estuarine	6005	4127	1878	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	985.7	0.0	0.0	132.3	0.0
DANVERS RIVER	Estuarine	19467	18755	713	0.0	927.2	0.0	0.0	0.0	0.0	0.0	927.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	3677	1667	0.0	1632.9	10.5	0.0	0.0	0.0	1632.9	0.0	0.0	10.5	0.0	0.0	0.0	1632.9	0.0	0.0	0.0	0.0
ELLISVILLE HARBOR	Estuarine	3579	2417	1162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESSEX RIVER / ESSEX BAY	Estuarine	12632	10535	2097	0.0	3108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	84	249	0.0	0.0	0.0	0.0	0.0	0.0	198.2	198.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	3662	1132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	848.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GLOUCESTER HARBOR	Estuarine	3142	1583	1560	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.7	0.0	0.0	0.0	0.0
GOOD HARBOR	Inter-Estuarine	2638	2045	593	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	544.3	0.0	0.0	0.0	0.0
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	3497	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREEN HARBOR	Inter-Estuarine	5011	2957	2054	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1197.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HERRING BROOK / GREAT POND	Inter-Estuarine	881	881	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HERRING RIVER / HERRING POND	Estuarine	1212	680	532	0.0	0.0	0.0	0.0	0.0	0.0	385.5	385.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IPSWICH RIVER	Estuarine	6026	5616	410	397.1	1346.6	0.0	0.0	0.0	0.0	0.0	397.1	397.1	1346.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JONES RIVER / KINGSTON BAY	Estuarine	7862	4950	2913	0.0	2863.4	0.0	0.0	0.0	0.0	2863.4	0.0	0.0	0.0	0.0	0.0	0.0	2863.4	0.0	0.0	0.0	0.0
KETTLE COVE	Inter-Estuarine	1514	1447	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	1447	596	0.0	0.4	0.0	0.0	0.0	0.0	32.2	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	1916	463	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.9	0.0	0.0	3.0	0.0
LITTLE HARBOR	Estuarine	1702	982	719	0.0	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LONG BEACH	Inter-Estuarine	2503	1528	974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	920.4	0.0	0.0	0.0	0.0
MAGNOLIA COAST	Inter-Estuarine	1022	614	408	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0
MANCHESTER COAST	Inter-Estuarine	603	255	348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANCHESTER HARBOR	Estuarine	4294	3966	329	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5862	2053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2026 ACRS Data Table: Shorebird Habitat

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American bittern Habitat (acres)	American black duck Habitat (acres)	Arctic tern Habitat (acres)	Bald eagle Habitat (acres)	Black-bellied plover Habitat (acres)	Black-crowned night-heron Habitat (acres)	Brant Habitat (acres)	Canada goose Habitat (acres)	Common moorhen Habitat (acres)	Common tern Habitat (acres)	Diving ducks Habitat (acres)	Double-crested cormorant Habitat (acres)	Dunlin Habitat (acres)	Eiders Habitat (acres)	Great black-backed gull Habitat (acres)	Great egret Habitat (acres)	Harlequin duck Habitat (acres)	Herring gull Habitat (acres)
MARBLEHEAD HARBOR	Estuarine	1740	1178	562	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	1695	1216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0	539.9	0.0	0.0	0.0	0.0
MERRIMACK RIVER	Estuarine	11900	8184	3715	874.5	1764.9	0.0	1631.6	890.5	0.0	0.0	874.5	874.5	1830.9	0.0	0.0	890.5	0.0	0.0	0.0	0.0	0.0
NAHANT BAY	Inter-Estuarine	4769	1582	3187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAMELOC HEIGHTS	Inter-Estuarine	2235	556	1680	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	3106	945	0.0	0.0	0.0	0.0	0.0	0.0	628.7	628.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	9348	2472	0.0	139.9	0.0	0.0	0.0	0.0	139.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NOBSCUSSET HARBOR	Inter-Estuarine	1486	1196	290	0.0	62.7	0.0	0.0	0.0	0.0	0.0	62.7	0.0	0.0	0.0	0.0	0.0	62.7	0.0	0.0	0.0	0.0
NORTH RIVER / SOUTH RIVER	Estuarine	14947	12710	2237	0.0	605.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	547.9	0.0	0.0	0.0	0.0
PAINE'S CREEK / STONY BROOK	Estuarine	4705	3794	911	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	3672	1436	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PARKER RIVER	Estuarine	7663	7208	455	317.1	317.1	0.0	0.0	0.0	0.0	0.0	317.1	317.1	317.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROVINCETOWN COAST	Inter-Estuarine	8031	4378	3653	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PROVINCETOWN HARBOR	Estuarine	7821	3779	4042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QUIVETT CREEK	Estuarine	2247	1808	439	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	1565	931	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	624.3	0.0	0.0	2.2	0.0
ROCKY POINT	Inter-Estuarine	1906	1085	821	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROWLEY RIVER	Estuarine	3184	2941	244	891.0	891.0	0.0	0.0	0.0	0.0	0.0	891.0	891.0	891.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	5377	5574	0.0	82.7	0.0	0.0	0.0	0.0	0.0	82.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SANDWICH HARBOR	Estuarine	8726	7818	908	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	405.8	0.0	0.0	0.0	154.4	0.0	0.0	0.0	0.0
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	10300	6829	0.0	127.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.2	0.0	0.0	0.0	1527.1	0.0	0.0	0.0	0.0
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	574	594	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.7	0.0	0.0	0.0	0.0
SCITUATE HARBOR	Estuarine	2554	1647	906	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCORTON CREEK	Estuarine	7673	7049	624	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCUSSET BEACH	Inter-Estuarine	3414	2524	890	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1651	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TRURO COAST	Inter-Estuarine	5557	3475	2082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEIR RIVER / STRAITS POND	Estuarine	4320	3011	1309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WELLFLEET HARBOR	Estuarine	31968	12406	19561	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEST SANDWICH	Inter-Estuarine	3447	3422	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		438841	293359	145482	7581	34309	11	1632	890	4	11914	20158	8778	14457	848	4	890	33449	4	4	151	4

2026 ACRS Data Table: Shorebird Habitat

Assessment Unit	Hudsonian godwit Habitat (acres)	King rail Habitat (acres)	Least bittern Habitat (acres)	Least tern Habitat (acres)	Lesser yellowlegs Habitat (acres)	Little blue heron Habitat (acres)	Mallard Habitat (acres)	Pied-billed grebe Habitat (acres)	Piping plover Habitat (acres)	Red knot Habitat (acres)	Roseate tern Habitat (acres)	Scoters Habitat (acres)	Semipalmated sandpiper Habitat (acres)	Shorebirds Habitat (acres)	Short-billed dowitcher Habitat (acres)	Snowy egret Habitat (acres)	Wading birds Habitat (acres)	Waterfowl Habitat (acres)	Total Shorebird Habitat (species-acres)	Total Shorebird Habitat per Watershed Area (species-acres/ watershed area)
ANNISQUAM RIVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
BACK RIVER / FORE RIVER / HINGHAM BAY	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	529.1	0.0	925.0	5%
BARNSTABLE HARBOR	0.0	0.0	0.0	4972.8	0.0	0.0	0.0	0.0	237.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28808.8	129%
BEAVER DAM BROOK / BARTLETT POND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
BELLE ISLE CREEK / WINTHROP BAY	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9	2%
BLACK ROCK CREEK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1107.8	34%
BLACKS CREEK / QUINCY BAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	224.2	4%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	0.0	0.0	0.0	329.9	0.0	0.0	0.0	0.0	329.9	0.0	0.0	5443.4	0.0	3631.3	0.0	0.0	0.0	0.0	26064.8	202%
BOAT MEADOW CREEK / ROCK HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	349.0	0.0	0.0	0.0	0.0	1047.0	59%
BOSTON HARBOR ISLANDS	0.0	0.0	0.0	77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7350.0	47%
BREWSTER COAST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.7	0.0	0.0	0.0	0.0	386.2	6%
CHASE GARDEN CREEK	0.0	0.0	0.0	59.7	0.0	0.0	0.0	0.0	59.7	0.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5543.1	101%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0%
COASTAL PLUM ISLAND SOUND	0.0	5101.5	5101.5	361.9	0.0	0.0	0.0	5101.5	361.9	0.0	0.0	0.0	0.0	1319.0	0.0	0.0	0.0	0.0	42854.5	358%
COHASSET HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	985.7	0.0	0.0	0.0	0.0	0.0	0.0	2103.8	35%
DANVERS RIVER	0.0	0.0	0.0	0.0	0.0	0.0	927.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2781.7	14%
EEL RIVER / PLYMOUTH HARBOR	0.0	0.0	0.0	80.9	0.0	0.0	0.0	0.0	80.9	161.9	10.5	1632.9	0.0	643.4	0.0	0.0	0.0	0.0	7530.3	141%
ELLISVILLE HARBOR	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0%
ESSEX RIVER / ESSEX BAY	0.0	0.0	0.0	88.4	0.0	0.0	0.0	0.0	88.4	0.0	0.0	0.0	0.0	911.1	0.0	0.0	0.0	208.3	7512.4	59%
FIRST ENCOUNTER BEACH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	198.2	0.0	0.0	0.0	0.0	594.5	179%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	848.3	18%
GLOUCESTER HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.7	3%
GOOD HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	544.3	21%
GREAT HERRING POND / BOURNEDALE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
GREEN HARBOR	0.0	0.0	1197.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2394.4	48%
HERRING BROOK / GREAT POND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
HERRING RIVER / HERRING POND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	385.5	0.0	0.0	0.0	0.0	1156.4	95%
IPSWICH RIVER	0.0	397.1	397.1	29.8	0.0	0.0	0.0	397.1	29.8	0.0	0.0	0.0	0.0	211.7	0.0	0.0	0.0	0.0	5347.4	89%
JONES RIVER / KINGSTON BAY	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	1.9	0.0	0.0	2863.4	0.0	1996.6	0.0	0.0	0.0	0.0	13454.2	171%
KETTLE COVE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
KINGSBURY BEACH TO COOKS BROOK BEACH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	0.0	0.0	0.0	0.0	97.5	5%
LANESVILLE COAST / HALIBUT POINT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.9	5%
LITTLE HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	495.1	29%
LONG BEACH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	920.4	37%
MAGNOLIA COAST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	1%
MANCHESTER COAST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
MANCHESTER HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
MANOMET / INDIAN BROOK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%

2026 ACRS Data Table: Shorebird Habitat

Assessment Unit	Hudsonian godwit Habitat (acres)	King rail Habitat (acres)	Least bittern Habitat (acres)	Least tern Habitat (acres)	Lesser yellowlegs Habitat (acres)	Little blue heron Habitat (acres)	Mallard Habitat (acres)	Pied-billed grebe Habitat (acres)	Piping plover Habitat (acres)	Red knot Habitat (acres)	Roseate tern Habitat (acres)	Scoters Habitat (acres)	Semipalmated sandpiper Habitat (acres)	Shorebirds Habitat (acres)	Short-billed dowitcher Habitat (acres)	Snowy egret Habitat (acres)	Wading birds Habitat (acres)	Waterfowl Habitat (acres)	Total Shorebird Habitat (species-acres)	Total Shorebird Habitat per Watershed Area (species-acres/ watershed area)
MARBLEHEAD HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
MARBLEHEAD NECK/SWAMPSCOTT COAST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	552.9	19%
MERRIMACK RIVER	55.3	1830.9	874.5	19.0	890.5	0.0	0.0	874.5	19.0	890.5	0.0	0.0	890.5	895.4	890.5	0.0	0.0	1631.6	19393.5	163%
NAHANT BAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
NAMELOC HEIGHTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	628.7	0.0	0.0	0.0	0.0	1886.2	47%
NEPONSET RIVER / DORCHESTER BAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	279.8	2%
NOBSCUSSET HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	188.1	13%
NORTH RIVER / SOUTH RIVER	0.0	0.0	0.0	163.9	0.0	0.0	605.3	0.0	163.9	112.4	0.0	0.0	0.0	112.4	0.0	0.0	0.0	0.0	2311.1	15%
PAINE'S CREEK / STONY BROOK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
PAMET RIVER / LITTLE PAMET RIVER	0.0	0.0	0.0	62.8	0.0	0.0	0.0	0.0	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	125.6	2%
PARKER RIVER	0.0	317.1	317.1	0.0	0.0	0.0	0.0	317.1	0.0	0.0	0.0	0.0	0.0	42.8	0.0	0.0	0.0	0.0	2579.6	34%
PROVINCETOWN COAST	0.0	0.0	0.0	767.1	0.0	0.0	0.0	0.0	767.1	0.0	0.0	0.0	0.0	33.8	0.0	0.0	0.0	0.0	1568.0	20%
PROVINCETOWN HARBOR	0.0	0.0	0.0	199.6	0.0	0.0	0.0	0.0	199.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	399.1	5%
QUIVETT CREEK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
ROCKPORT HARBOR (SANDY BAY)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	626.5	25%
ROCKY POINT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
ROWLEY RIVER	0.0	891.0	891.0	0.0	0.0	0.0	0.0	891.0	0.0	0.0	0.0	0.0	0.0	41.3	0.0	0.0	0.0	0.0	7169.7	225%
SALEM SOUND / BEVERLY HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	82.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	248.1	2%
SANDWICH HARBOR	0.0	0.0	0.0	50.8	0.0	0.0	0.0	0.0	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	661.7	8%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1796.6	10%
SCITUATE / COHASSET COAST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.7	0.0	0.0	0.0	0.0	0.0	0.0	311.4	27%
SCITUATE HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
SCORTON CREEK	0.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	102.0	1%
SCUSSET BEACH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.3	1%
SESUIT CREEK / SESUIT HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
TRURO COAST	0.0	0.0	0.0	102.3	0.0	0.0	0.0	0.0	102.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.6	4%
WEIR RIVER / STRAITS POND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.0	0.0	261.0	6%
WELLFLEET HARBOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
WEST SANDWICH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%
Total	55	8538	8778	7453	890	4	1780	7581	2681	1165	37	11081	890	11562	890	4	790	1840	201108	46%

2026 ACRS Data Table: Shorebird Nesting Sites

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American black duck (# of sites)	American oystercatcher (# of sites)	Black-crowned night-heron (# of sites)	Canada goose (# of sites)	Colonial waterbirds (# of sites)	Common eider (# of sites)	Common tern (# of sites)	Double-crested cormorant (# of sites)	Glossy ibis (# of sites)	Great black-backed gull (# of sites)	Great egret (# of sites)	Herring gull (# of sites)	Laughing gull (# of sites)	Least tern (# of sites)	Little blue heron (# of sites)	Mallard (# of sites)	Snowy egret (# of sites)	Yellow-crowned night-heron (# of sites)	Total Nesting Sites (# of sites)	Nesting Sites per Acre of Watershed
ANNISQUAM RIVER	Estuarine	5650	4540	1110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	9580	9578	1	0	2	0	0	0	0	0	0	2	0	4	0	0	0	0	0	1	10	5.22E-04
BARNSTABLE HARBOR	Estuarine	22302	18446	3856	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	8.97E-05
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	3682	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	3085	1384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
BLACK ROCK CREEK	Estuarine	3275	2746	529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
BLACKS CREEK / QUINCY BAY	Estuarine	5334	1733	3600	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	3.75E-04
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	4852	8072	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3	2.32E-04
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	1320	461	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
BOSTON HARBOR ISLANDS	Estuarine	15712	1023	14689	1	1	4	0	1	1	1	5	3	7	1	6	0	0	0	0	2	0	33	2.10E-03
BREWSTER COAST	Inter-Estuarine	6078	3511	2568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
CHASE GARDEN CREEK	Estuarine	5487	4700	787	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	13697	2825	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	4	2.42E-04
COASTAL PLUM ISLAND SOUND	Estuarine	11965	7922	4043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
COHASSET HARBOR	Estuarine	6005	4127	1878	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	3.33E-04
DANVERS RIVER	Estuarine	19467	18755	713	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	3677	1667	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	4	7.48E-04
ELLISVILLE HARBOR	Estuarine	3579	2417	1162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
ESSEX RIVER / ESSEX BAY	Estuarine	12632	10535	2097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	84	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	3662	1132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
GLOUCESTER HARBOR	Estuarine	3142	1583	1560	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	6.36E-04
GOOD HARBOR	Inter-Estuarine	2638	2045	593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	3497	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
GREEN HARBOR	Inter-Estuarine	5011	2957	2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
HERRING BROOK / GREAT POND	Inter-Estuarine	881	881	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
HERRING RIVER / HERRING POND	Estuarine	1212	680	532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
IPSWICH RIVER	Estuarine	6026	5616	410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
JONES RIVER / KINGSTON BAY	Estuarine	7862	4950	2913	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
KETTLE COVE	Inter-Estuarine	1514	1447	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	1447	596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	1916	463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
LITTLE HARBOR	Estuarine	1702	982	719	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3	1.76E-03
LONG BEACH	Inter-Estuarine	2503	1528	974	0	0	1	0	0	0	0	1	1	3	0	3	0	0	0	0	0	0	9	3.60E-03
MAGNOLIA COAST	Inter-Estuarine	1022	614	408	0	0	1	0	0	0	0	1	1	2	1	2	0	0	1	0	1	0	10	9.78E-03

2026 ACRS Data Table: Shorebird Nesting Sites

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	American black duck (# of sites)	American oystercatcher (# of sites)	Black-crowned night-heron (# of sites)	Canada goose (# of sites)	Colonial waterbirds (# of sites)	Common eider (# of sites)	Common tern (# of sites)	Double-crested cormorant (# of sites)	Glossy ibis (# of sites)	Great black-backed gull (# of sites)	Great egret (# of sites)	Herring gull (# of sites)	Laughing gull (# of sites)	Least tern (# of sites)	Little blue heron (# of sites)	Mallard (# of sites)	Snowy egret (# of sites)	Yellow-crowned night-heron (# of sites)	Total Nesting Sites (# of sites)	Nesting Sites per Acre of Watershed
MANCHESTER COAST	Inter-Estuarine	603	255	348	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	1	0	0	5	8.29E-03
MANCHESTER HARBOR	Estuarine	4294	3966	329	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	4.66E-04
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5862	2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
MARBLEHEAD HARBOR	Estuarine	1740	1178	562	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
MARBLEHEAD NECK/ SWAMPSCOTT COAST	Inter-Estuarine	2911	1695	1216	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3.44E-04
MERRIMACK RIVER	Estuarine	11900	8184	3715	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	8.40E-05
NAHANT BAY	Inter-Estuarine	4769	1582	3187	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3	6.29E-04
NAMELOC HEIGHTS	Inter-Estuarine	2235	556	1680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	3106	945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	9348	2472	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	4	3.38E-04
NOBSCUSSET HARBOR	Inter-Estuarine	1486	1196	290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
NORTH RIVER / SOUTH RIVER	Estuarine	14947	12710	2237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
PAINE'S CREEK / STONY BROOK	Estuarine	4705	3794	911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	3672	1436	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
PARKER RIVER	Estuarine	7663	7208	455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
PROVINCETOWN COAST	Inter-Estuarine	8031	4378	3653	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	4	4.98E-04
PROVINCETOWN HARBOR	Estuarine	7821	3779	4042	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1.28E-04
QUIVETT CREEK	Estuarine	2247	1808	439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	1565	931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
ROCKY POINT	Inter-Estuarine	1906	1085	821	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	1.05E-03
ROWLEY RIVER	Estuarine	3184	2941	244	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	5377	5574	0	0	1	0	2	0	0	3	0	3	0	3	0	0	0	0	0	0	12	1.10E-03
SANDWICH HARBOR	Estuarine	8726	7818	908	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	10300	6829	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	5.84E-05
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	574	594	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SCITUATE HARBOR	Estuarine	2554	1647	906	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SCORTON CREEK	Estuarine	7673	7049	624	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SCUSSET BEACH	Inter-Estuarine	3414	2524	890	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1651	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
TRURO COAST	Inter-Estuarine	5557	3475	2082	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
WEIR RIVER / STRAITS POND	Estuarine	4320	3011	1309	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3	6.94E-04
WELLFLEET HARBOR	Estuarine	31968	12406	19561	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
WEST SANDWICH	Inter-Estuarine	3447	3422	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00
Total		438841	293359	145482	2	1	10	1	3	1	4	15	5	34	2	36	1	2	1	1	3	1	123	2.80E-04

2026 ACRS Data Table: 303(d) Impairments

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Waterbody Nutrient-Related (acres)	Waterbody Bacteria (acres)	Waterbody Dissolved Oxygen (acres)	Waterbody Estuarine Bioassessment (acres)	Waterbody Total Assessed Area (acres)	Waterbody Nutrient-Related (% Assessed Area)	Waterbody Bacteria (% Assessed Area)	Waterbody Dissolved Oxygen (% Assessed Area)	Waterbody Estuarine Bioassessment (% Assessed Area	River Nutrient-Related (miles)	River Bacteria (miles)	River Dissolved Oxygen (miles)	River Estuarine Bioassessment (miles)	Total Assessed River Length (miles)	River Nutrient-Related (% Assessed Area)	River Bacteria (% Assessed Area)	River Dissolved Oxygen (% Assessed Area)	River Estuarine Bioassessment (% Assessed Area
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	3.3	587.7	0.0	0.0	739.5	0%	79%	0%	0%	0.0	0.0	0.0	0.0	0.5	0%	0%	0%	0%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	0.0	8959.6	295.6	4658.6	8959.6	0%	100%	3%	52%	0.0	1.1	0.4	0.0	1.5	0%	76%	25%	0%
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	17.4	2082.2	0.0	0.0	2093.2	1%	99%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	0.0	0.0	0.0	0.0	126.2	0%	0%	0%	0%	0.0	0.0	0.0	0.0	2.6	0%	0%	0%	0%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	0.0	1618.5	0.0	0.0	1619.7	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	0.0	3807.0	0.0	0.0	3807.0	0%	100%	0%	0%	0.0	0.2	0.2	0.0	0.2	0%	100%	100%	0%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	0.0	5881.1	0.0	5253.3	6318.7	0%	93%	0%	83%	0.0	0.0	0.0	0.0	0.5	0%	0%	0%	0%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	16.6	49.9	16.6	31.5	66.5	25%	75%	25%	47%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	0.0	10430.5	0.0	0.0	10430.5	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	21.0	85.0	0.0	0.0	112.5	19%	76%	0%	0%	0.0	0.6	0.0	0.0	1.2	0%	53%	0%	0%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	555.5	2650.4	1952.8	0.0	2659.1	21%	100%	73%	0%	4.7	4.7	4.7	0.0	5.5	85%	85%	85%	0%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	0.0	3375.6	0.0	0.0	3375.6	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
COHASSET HARBOR	Estuarine	6005	22	4127	1878	69.8	665.2	0.0	0.0	665.2	10%	100%	0%	0%	0.0	0.0	0.0	0.0	0.3	0%	0%	0%	0%
DANVERS RIVER	Estuarine	19467	16	18755	713	92.8	703.3	0.0	0.0	845.6	11%	83%	0%	0%	6.2	12.1	6.0	0.0	14.2	44%	85%	42%	0%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	0.0	1637.8	0.0	1634.6	1637.8	0%	100%	0%	100%	0.0	0.0	0.0	0.0	3.2	0%	0%	0%	0%
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	28.7	7.7	0.0	0.0	72.0	40%	11%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	0.0	955.2	0.0	0.0	1010.3	0%	95%	0%	0%	0.0	0.0	0.0	0.0	1.0	0%	0%	0%	0%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	0.0	1100.8	0.0	1100.8	1117.8	0%	98%	0%	98%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	0.0	1481.5	1481.5	0.0	1485.9	0%	100%	100%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	0.0	0.0	0.0	0.0	77.4	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	0.0	0.0	415.1	0.0	583.1	0%	0%	71%	0%	0.0	0.0	0.0	0.0	1.8	0%	0%	0%	0%
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	0.0	48.5	0.0	0.0	55.0	0%	88%	0%	0%	4.6	0.0	0.0	0.0	4.6	100%	0%	0%	0%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	109.4	0.0	109.4	0.0	138.2	79%	0%	79%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	0.0	0.0	0.0	0.0	42.4	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
IPSWICH RIVER	Estuarine	6026	21	5616	410	0.0	288.8	271.0	0.0	288.8	0%	100%	94%	0%	0.0	2.2	5.3	0.0	5.3	0%	42%	100%	0%
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	56.0	2912.4	0.0	2856.4	2922.6	2%	100%	0%	98%	1.0	0.0	1.0	0.0	5.1	19%	0%	19%	0%
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
LITTLE HARBOR	Estuarine	1702	9	982	719	0.0	174.1	0.0	0.0	174.1	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
LONG BEACH	Inter-Estuarine	2503	8	1528	974	0.0	0.0	0.0	0.0	9.6	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	7.1	0.9	0.9	0.0	8.0	89%	11%	11%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	0.0	308.9	0.0	0.0	308.9	0%	100%	0%	0%	0.0	1.1	0.0	0.0	2.6	0%	41%	0%	0%
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	0.0	0.0	0.0	0.0	156.3	0%	0%	0%	0%	1.4	0.0	0.0	0.0	1.4	100%	0%	0%	0%

2026 ACRS Data Table: 303(d) Impairments

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Waterbody Nutrient-Related (acres)	Waterbody Bacteria (acres)	Waterbody Dissolved Oxygen (acres)	Waterbody Estuarine Bioassessment (acres)	Waterbody Total Assessed Area (acres)	Waterbody Nutrient-Related (% Assessed Area)	Waterbody Bacteria (% Assessed Area)	Waterbody Dissolved Oxygen (% Assessed Area)	Waterbody Estuarine Bioassessment (% Assessed Area	River Nutrient-Related (miles)	River Bacteria (miles)	River Dissolved Oxygen (miles)	River Estuarine Bioassessment (miles)	Total Assessed River Length (miles)	River Nutrient-Related (% Assessed Area)	River Bacteria (% Assessed Area)	River Dissolved Oxygen (% Assessed Area)	River Estuarine Bioassessment (% Assessed Area
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	0.0	560.9	0.0	560.9	560.9	0%	100%	0%	100%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	0.0	3.4	0.0	0.0	3.4	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	0.0	2670.5	0.0	0.0	2670.5	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	0.0	3272.0	0.0	0.0	3272.0	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	0.0	22.5	47.2	0.0	260.0	0%	9%	18%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	0.0	2655.1	0.0	0.0	2655.1	0%	100%	0%	0%	1.6	1.9	1.6	0.0	1.9	82%	100%	84%	0%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	0.0	0.0	0.0	0.0	0.1	0%	0%	0%	0%	0.0	0.9	0.0	0.0	0.9	0%	100%	0%	0%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	0.2	915.2	0.0	0.0	915.4	0%	100%	0%	0%	0.0	0.0	0.6	0.0	1.4	0%	0%	45%	0%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	45.1	0.0	0.0	0.0	306.1	15%	0%	0%	0%	0.0	0.6	0.0	0.0	0.6	0%	100%	0%	0%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	0.0	89.2	0.0	0.0	89.2	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
PARKER RIVER	Estuarine	7663	6	7208	455	0.0	483.9	0.0	0.0	486.1	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	0.0	1.3	0.0	0.0	1.3	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	0.0	3090.2	0.0	0.0	3129.8	0%	99%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
QUIVETT CREEK	Estuarine	2247	2	1808	439	0.0	24.5	24.5	0.0	24.5	0%	100%	100%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	0.0	221.4	0.0	0.0	228.8	0%	97%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	0.0	421.4	0.0	0.0	421.4	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
ROWLEY RIVER	Estuarine	3184	7	2941	244	0.0	186.5	0.0	0.0	186.5	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.1	0%	0%	0%	0%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	0.0	5570.5	0.0	3692.5	5576.9	0%	100%	0%	66%	0.0	2.8	0.0	0.0	3.5	0%	81%	0%	0%
SANDWICH HARBOR	Estuarine	8726	3	7818	908	45.4	88.0	0.0	0.0	133.4	34%	66%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	0.0	5879.0	0.0	0.0	5879.0	0%	100%	0%	0%	0.0	0.3	0.0	0.0	0.3	0%	100%	0%	0%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
SCITUATE HARBOR	Estuarine	2554	8	1647	906	0.0	206.6	0.0	206.6	206.6	0%	100%	0%	100%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
SCORTON CREEK	Estuarine	7673	2	7049	624	0.0	21.7	0.0	0.0	186.4	0%	12%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	0.0	18.8	0.0	0.0	18.8	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.1	0%	0%	0%	0%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	0.0	8.0	0.0	0.0	62.3	0%	13%	0%	0%	0.0	0.0	0.0	0.0	0.6	0%	0%	0%	0%
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	0.0	0.0	0.0	0.0	2.5	0%	0%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	0.0	532.4	0.0	0.0	532.4	0%	100%	0%	0%	0.4	0.4	0.0	0.0	0.4	100%	100%	0%	0%
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	6088.3	347.5	224.7	253.7	6540.6	93%	5%	3%	4%	0.0	2.0	0.0	0.0	5.6	0%	36%	0%	0%
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	0.0	27.2	0.0	0.0	27.2	0%	100%	0%	0%	0.0	0.0	0.0	0.0	0.0	0%	0%	0%	0%
Total		438841	834	293359	145482	7157	77130	4839	20249	86284	8%	89%	6%	23%	20	31	20	0	67	30%	46%	29%	0%

2026 ACRS Data Table: Land Use

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	High Intensity Land Use (acres)	High Intensity Land Use (% of Land Area)	Impervious Area (acres)	Impervious Area (% of Land Area)	2020 Estimated Population	Population Density (population/ acre)	Population Density (population/ miles)	Impoundments Causing Fish Passage Barriers (#)	Fish Passage Barriers per square mile (of Land Area)	Road Crossings (#)	Road Crossings per square mile (of Land Area)	Tidal Road Crossings (#)	Tidal Road Crossings per square mile (of Land Area)
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	2115.6	47%	605.2	13%	9351	2.1	1,318	12	1.7	26	4	9	1
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	6168.9	64%	3262.3	34%	65145	6.8	4,352	17	1.1	18	1	4	0
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	6471.0	35%	1264.8	7%	9373	0.5	325	0	0.0	37	1	6	0
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	2082.4	57%	454.7	12%	5740	1.6	998	0	0.0	11	2	0	0
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	1904.0	62%	1575.1	51%	29999	9.7	6,223	0	0.0	2	0	1	0
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	946.4	34%	263.2	10%	3508	1.3	818	0	0.0	8	2	0	0
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	1001.1	58%	672.1	39%	17811	10.3	6,576	0	0.0	12	4	1	0
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	2349.1	48%	549.6	11%	4916	1.0	648	2	0.3	14	2	5	1
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	702.6	53%	200.9	15%	1404	1.1	681	1	0.5	6	3	4	2
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	89.5	9%	86.9	9%	503	0.5	315	0	0.0	0	0	0	0
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	2318.5	66%	562.6	16%	3583	1.0	653	0	0.0	14	3	0	0
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	1935.0	41%	613.4	13%	5820	1.2	793	1	0.1	12	2	1	0
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	11228.1	82%	10050.0	73%	307241	22.4	14,356	9	0.4	16	1	2	0
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	1132.4	14%	170.0	2%	1585	0.2	128	0	0.0	10	1	9	1
COHASSET HARBOR	Estuarine	6005	22	4127	1878	2628.2	64%	598.5	15%	7645	1.9	1,186	1	0.2	17	3	3	0
DANVERS RIVER	Estuarine	19467	16	18755	713	12340.6	66%	6034.2	32%	103841	5.5	3,544	4	0.1	115	4	4	0
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	2419.8	66%	976.9	27%	11157	3.0	1,942	2	0.3	18	3	0	0
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	1097.2	45%	170.7	7%	1446	0.6	383	2	0.5	4	1	1	0
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	4010.7	38%	356.1	3%	4088	0.4	248	3	0.2	43	3	12	1
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	55.2	66%	14.6	17%	64	0.8	490	0	0.0	0	0	0	0
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	2302.5	63%	1309.8	36%	29217	8.0	5,106	0	0.0	28	5	4	1
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	987.7	62%	525.5	33%	10010	6.3	4,048	4	1.6	7	3	0	0
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	968.7	47%	367.0	18%	3583	1.8	1,121	0	0.0	14	4	4	1
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	1444.7	41%	325.2	9%	3269	0.9	598	0	0.0	12	2	0	0
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	1263.4	43%	532.3	18%	6586	2.2	1,426	1	0.2	9	2	7	2
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	440.3	50%	99.4	11%	599	0.7	435	1	0.7	3	2	0	0
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	295.3	43%	56.7	8%	314	0.5	296	0	0.0	1	1	0	0
IPSWICH RIVER	Estuarine	6026	21	5616	410	3813.4	68%	477.3	8%	7559	1.3	861	4	0.5	27	3	6	1
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	3043.1	61%	1015.0	21%	10831	2.2	1,400	11	1.4	22	3	4	1
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	770.6	53%	118.4	8%	1475	1.0	652	0	0.0	12	5	1	0
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	1209.7	84%	268.1	19%	1597	1.1	707	0	0.0	0	0	0	0
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	866.0	45%	139.6	7%	2111	1.1	705	0	0.0	11	4	2	1
LITTLE HARBOR	Estuarine	1702	9	982	719	634.8	65%	129.0	13%	1749	1.8	1,139	1	0.7	10	7	5	3
LONG BEACH	Inter-Estuarine	2503	8	1528	974	666.6	44%	128.3	8%	1392	0.9	583	0	0.0	7	3	3	1
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	231.6	38%	62.3	10%	1191	1.9	1,242	0	0.0	5	5	1	1
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	214.8	84%	28.3	11%	176	0.7	442	0	0.0	0	0	0	0
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	1842.3	46%	358.8	9%	4214	1.1	680	1	0.2	45	7	2	0
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	2177.0	37%	468.5	8%	6176	1.1	674	1	0.1	16	2	0	0

2026 ACRS Data Table: Land Use

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	High Intensity Land Use (acres)	High Intensity Land Use (% of Land Area)	Impervious Area (acres)	Impervious Area (% of Land Area)	2020 Estimated Population	Population Density (population/ acre)	Population Density (population/ miles)	Impoundments Causing Fish Passage Barriers (#)	Fish Passage Barriers per square mile (of Land Area)	Road Crossings (#)	Road Crossings per square mile (of Land Area)	Tidal Road Crossings (#)	Tidal Road Crossings per square mile (of Land Area)
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	899.3	76%	471.6	40%	9577	8.1	5,204	0	0.0	4	2	0	0
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	1277.8	75%	539.6	32%	10468	6.2	3,952	0	0.0	2	1	0	0
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	3191.2	39%	1381.3	17%	17499	2.1	1,368	14	1.1	35	3	5	0
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	1130.1	71%	714.0	45%	23819	15.1	9,635	0	0.0	0	0	0	0
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	416.1	75%	104.4	19%	1631	2.9	1,878	0	0.0	0	0	0	0
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	1182.7	38%	315.7	10%	1780	0.6	367	0	0.0	1	0	0	0
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	6933.4	74%	5284.4	57%	197830	21.2	13,545	3	0.2	7	0	1	0
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	887.9	74%	229.7	19%	776	0.6	415	0	0.0	8	4	0	0
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	6837.6	54%	1378.1	11%	14683	1.2	739	19	1.0	42	2	3	0
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	1850.4	49%	319.0	8%	2296	0.6	387	0	0.0	15	3	3	1
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	1474.8	40%	286.5	8%	829	0.2	144	0	0.0	9	2	2	0
PARKER RIVER	Estuarine	7663	6	7208	455	2435.3	34%	281.5	4%	2474	0.3	220	5	0.4	42	4	10	1
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	108.1	2%	105.5	2%	18	0.0	3	0	0.0	1	0	1	0
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	887.6	23%	554.6	15%	3725	1.0	631	0	0.0	2	0	0	0
QUIVETT CREEK	Estuarine	2247	2	1808	439	912.1	50%	157.0	9%	1116	0.6	395	0	0.0	7	2	1	0
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	838.8	54%	264.2	17%	4533	2.9	1,853	2	0.8	4	2	0	0
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	717.6	66%	112.1	10%	756	0.7	446	0	0.0	0	0	0	0
ROWLEY RIVER	Estuarine	3184	7	2941	244	992.1	34%	85.2	3%	826	0.3	180	2	0.4	5	1	0	0
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	3383.2	63%	947.1	18%	20086	3.7	2,391	0	0.0	57	7	2	0
SANDWICH HARBOR	Estuarine	8726	3	7818	908	2179.8	28%	570.2	7%	4530	0.6	371	0	0.0	19	2	5	0
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	6617.0	64%	4601.0	45%	147888	14.4	9,189	3	0.2	30	2	3	0
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	390.3	68%	150.7	26%	2761	4.8	3,077	0	0.0	1	1	0	0
SCITUATE HARBOR	Estuarine	2554	8	1647	906	1055.0	64%	333.9	20%	4753	2.9	1,847	0	0.0	9	3	4	2
SCORTON CREEK	Estuarine	7673	2	7049	624	2637.0	37%	580.7	8%	5736	0.8	521	0	0.0	12	1	2	0
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	1154.6	46%	363.9	14%	3625	1.4	919	0	0.0	5	1	0	0
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	1006.0	61%	279.6	17%	1640	1.0	636	3	1.2	10	4	1	0
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	1438.4	41%	393.4	11%	1337	0.4	246	0	0.0	1	0	0	0
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	1500.6	50%	506.2	17%	6176	2.1	1,313	5	1.1	17	4	1	0
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	4130.3	33%	795.2	6%	4095	0.3	211	2	0.1	28	1	2	0
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	714.0	21%	297.0	9%	1678	0.5	314	0	0.0	2	0	0	0
Total		438841	834	293359	145482	145348	0	57295	0	1185210	4	2586	136	0	987	2	147	0

2026 ACRS Data Table: Dredging, Flooding, Seawalls

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Dredging Area (acres)	Dredging Area (% of Water Area)	Public Shoreline Stabilization (miles)	Public Shoreline Stabilization (% of Coastline)	Private Shoreline Stabilization (miles)	Private Shoreline Stabilization (% of Coastline)	FEMA VE Flood Zone Area (acres)	FEMA VE Flood Zone Area (% of Watershed)
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	69.4	6.3%	0.0	0%	0.76	2%	231.1	4%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	462.3	4.8%	14.8	23%	8.65	13%	4320.7	23%
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	0.0	0%	0.3	1%	0.74	2%	3981.3	18%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	0.0	0%	0.7	45%	0.35	22%	159.7	4%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	5.9	0.4%	4.1	20%	3.87	20%	732.4	16%
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	0.0	0%	0.7	34%	0.03	1%	245.9	8%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	0.0	0%	5.7	57%	2.28	23%	506.0	9%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	41.8	0.5%	0.9	2%	3.70	9%	5936.2	46%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	0.0	0%	0.3	14%	0.00	0%	194.8	11%
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	1429.7	9.7%	8.5	32%	1.15	4%	1391.4	9%
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	0.0	0%	0.0	0%	0.95	30%	208.7	3%
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	0.0	0%	0.1	8%	0.16	10%	979.7	18%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	921.7	32.6%	7.2	15%	0.01	0%	1557.3	9%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	0.0	0%	0.2	0%	0.74	1%	914.5	8%
COHASSET HARBOR	Estuarine	6005	22	4127	1878	35.4	1.9%	2.5	11%	1.25	6%	1098.7	18%
DANVERS RIVER	Estuarine	19467	16	18755	713	0.0	0%	0.3	2%	0.00	0%	0.4	0%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	118.5	7.1%	3.2	37%	2.49	28%	1387.9	26%
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	0.0	0%	0.4	14%	0.16	6%	208.1	6%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	23.3	1.1%	0.0	0%	0.04	0%	669.2	5%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	0.0	0%	0.0	0%	0.25	36%	26.6	8%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	56.5	5.0%	1.6	16%	6.40	62%	654.1	14%
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	87.6	5.6%	2.2	17%	3.92	29%	511.8	16%
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	0.0	0%	0.0	0%	2.08	35%	605.6	23%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	0.0	0%	0.0	0%	0.00	0%	0.0	0%
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	11.1	0.5%	4.0	97%	0.58	14%	394.4	8%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	0.0	0%	0.0	0%	0.00	0%	2.8	0%
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	0.0	0%	0.0	0%	0.00	0%	223.1	18%
IPSWICH RIVER	Estuarine	6026	21	5616	410	3.8	0.9%	0.0	0%	0.49	2%	22.8	0%
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	26.3	0.9%	0.6	7%	3.25	39%	3027.7	39%
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	0.0	0%	0.2	17%	0.71	62%	82.1	5%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	0.0	0%	0.1	3%	1.33	46%	111.9	5%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	0.2	0.0%	1.0	16%	1.58	25%	490.2	21%
LITTLE HARBOR	Estuarine	1702	9	982	719	0.0	0%	0.7	8%	1.15	13%	299.2	18%
LONG BEACH	Inter-Estuarine	2503	8	1528	974	0.0	0%	0.6	8%	1.51	19%	807.5	32%
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	0.0	0%	0.0	1%	1.62	38%	426.5	42%
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	0.0	0%	0.6	13%	0.98	23%	340.3	56%
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	0.0	0%	0.6	10%	1.08	18%	192.4	4%
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	0.0	0%	0.6	12%	3.71	68%	476.3	6%

2026 ACRS Data Table: Dredging, Flooding, Seawalls

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Dredging Area (acres)	Dredging Area (% of Water Area)	Public Shoreline Stabilization (miles)	Public Shoreline Stabilization (% of Coastline)	Private Shoreline Stabilization (miles)	Private Shoreline Stabilization (% of Coastline)	FEMA VE Flood Zone Area (acres)	FEMA VE Flood Zone Area (% of Watershed)
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	0.0	0%	1.1	16%	4.13	60%	580.9	33%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	0.0	0%	0.6	7%	4.33	48%	717.3	25%
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	263.5	7.1%	4.0	102%	0.74	19%	1750.3	15%
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	0.0	0%	3.1	34%	2.86	31%	868.1	18%
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	0.0	0%	0.1	4%	0.49	20%	188.5	8%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	0.0	0%	0.1	1%	0.03	1%	414.2	10%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	76.4	3.1%	8.5	32%	1.54	6%	784.9	7%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	0.0	0%	0.4	9%	1.82	45%	309.9	21%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	0.0	0%	2.0	28%	2.74	39%	1289.2	9%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	0.0	0%	0.2	9%	0.28	16%	175.0	4%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	0.0	0%	0.4	7%	0.17	3%	399.4	8%
PARKER RIVER	Estuarine	7663	6	7208	455	0.0	0%	0.0	0%	0.00	0%	0.0	0%
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	0.0	0%	0.0	0%	0.00	0%	1979.8	25%
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	0.0	0%	2.9	20%	2.42	17%	1291.5	17%
QUIVETT CREEK	Estuarine	2247	2	1808	439	0.0	0%	0.0	0%	0.01	1%	329.2	15%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	12.3	1.3%	1.9	32%	3.47	57%	444.5	18%
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	0.0	0%	0.7	15%	1.58	35%	306.7	16%
ROWLEY RIVER	Estuarine	3184	7	2941	244	0.0	0%	0.0	0%	0.00	0%	0.0	0%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	60.0	1.1%	2.1	16%	6.68	50%	1500.5	14%
SANDWICH HARBOR	Estuarine	8726	3	7818	908	0.9	0.1%	0.8	24%	0.42	12%	613.3	7%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	109.7	1.6%	8.4	29%	5.08	17%	1271.6	7%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	0.0	0%	1.2	63%	0.16	8%	443.7	38%
SCITUATE HARBOR	Estuarine	2554	8	1647	906	58.2	6.4%	3.1	39%	0.85	11%	586.4	23%
SCORTON CREEK	Estuarine	7673	2	7049	624	0.0	0%	0.1	5%	0.17	9%	206.2	3%
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	0.1	0.0%	0.6	19%	0.18	6%	298.6	9%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	4.6	10.2%	0.7	47%	0.29	19%	26.7	2%
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	0.0	0%	0.0	1%	0.41	8%	383.5	7%
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	0.0	0%	3.3	21%	2.20	14%	327.6	8%
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	23.7	0.1%	1.6	4%	3.74	10%	2264.5	7%
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	0.0	0%	0.2	0%	0.00	0%	0.0	0%
Total		438841	834	293359	145482	3903	3%	111	13%	105	13%	53172	12%

2026 ACRS Data Table: Stormwater / Wastewater

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Average Runoff Depth (in/yr)	Estimated Stormwater Volume (ac-ft/yr)	Sewered Area (acres)	Sewered Area (% of Land Area)	Estimated Population using Septic Systems	Population Using Septic Systems (%)	Estimated Flowrate from Septic Systems (gal/day)	Population Density (population/ acre)	Flowrate from facilities discharging wastewater to groundwater (gal/day)	Total NPDES Discharge Locations	Wastewater Treatment Plants Discharging to Surface Water	Wastewater Treatment Plant Permitted Flow Rate (MGD)	Combined Sewer Overflow Locations
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	43.7	16,527	1773.1	39%	1509.0	17%	104574	0	0	13	1	7.24	0
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	46.1	36,782	8652.1	90%	2134.0	3%	147886	0	0	62	1	3.07	0
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	35.7	54,910	730.8	4%	1472.0	65%	102010	0	0	11	0	0	0
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	38.7	11,875	27.2	1%	269.0	72%	18642	1	20000	2	0	0	0
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	42.5	10,919	3085.4	100%	1366.0	4%	94664	0	0	34	1	436	0
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	40.4	9,241	382.0	14%	2223.0	66%	154054	0	0	5	0	0	0
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	45.7	6,595	1733.4	100%	5.0	0%	347	0	0	12	0	0	0
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	45.3	18,318	239.5	5%	1396.0	72%	96743	1	30500	8	0	0	0
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	37.0	4,064	185.6	14%	235.0	35%	16286	1	12000	0	0	0	0
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	45.4	3,869	828.2	81%	0.0	0%	0	0	0	3	0	0	0
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	35.4	10,353	387.1	11%	353.0	69%	24463	4	94458	1	0	0	0
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	34.4	13,484	192.0	4%	572.0	50%	39640	1	165000	4	0	0	0
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	45.1	51,507	13246.8	97%	14774.0	5%	1023838	1	8640	292	0	0	30
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	41.7	27,550	9.0	0%	245.0	98%	16979	0	0	7	1	1.8	0
COHASSET HARBOR	Estuarine	6005	22	4127	1878	46.8	16,110	992.5	24%	2732.0	53%	189328	1	18920	8	1	0.072	0
DANVERS RIVER	Estuarine	19467	16	18755	713	43.3	67,710	16331.4	87%	12562.0	11%	870547	0	0	125	0	0	0
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	43.3	13,280	1504.4	41%	2448.0	25%	169646	1	13500	11	0	0	0
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	36.4	7,325	0.0	0%	0.0	0%	0	0	0	2	0	0	0
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	43.0	37,740	784.8	7%	1938.0	61%	134303	0	0	8	0	0	0
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	38.6	269	0.0	0%	0.0	0%	0	0	0	0	0	0	0
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	43.3	13,229	2713.4	74%	3787.0	12%	262439	0	0	25	0	0	0
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	44.2	5,833	845.8	53%	654.0	7%	45322	0	0	20	0	0	4
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	43.0	7,334	1014.4	50%	919.0	26%	63687	0	0	32	0	0	0
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	37.0	10,790	56.9	2%	94.0	56%	6514	1	80000	0	0	0	0
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	43.1	10,620	1138.8	39%	1493.0	25%	103465	0	0	10	1	2.1	0
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	35.1	2,578	17.8	2%	61.0	92%	4227	2	40675	0	0	0	0
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	37.9	2,144	0.0	0%	0.0	0%	0	0	0	0	0	0	0
IPSWICH RIVER	Estuarine	6026	21	5616	410	44.0	20,604	983.2	18%	1982.0	30%	137353	0	0	1	0	0	0
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	44.6	18,390	1788.4	36%	3102.0	34%	214969	1	725000	12	0	0	0
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	42.3	5,097	34.1	2%	89.0	71%	6168	0	0	2	0	0	0
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	35.5	4,275	0.0	0%	0.0	0%	0	0	0	0	0	0	0
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	42.1	6,714	736.9	38%	738.0	35%	51143	0	0	0	0	0	0
LITTLE HARBOR	Estuarine	1702	9	982	719	47.5	3,890	706.5	72%	461.0	26%	31947	0	0	0	0	0	0
LONG BEACH	Inter-Estuarine	2503	8	1528	974	42.9	5,463	191.1	13%	744.0	71%	51559	0	0	1	0	0	0
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	42.0	2,146	31.0	5%	428.0	85%	29660	0	0	1	0	0	0
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	42.5	902	0.0	0%	0.0	0%	0	0	0	0	0	0	0

2026 ACRS Data Table: Stormwater / Wastewater

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Average Runoff Depth (in/yr)	Estimated Stormwater Volume (ac-ft/yr)	Sewered Area (acres)	Sewered Area (% of Land Area)	Estimated Population using Septic Systems	Population Using Septic Systems (%)	Estimated Flowrate from Septic Systems (gal/day)	Population Density (population/ acre)	Flowrate from facilities discharging wastewater to groundwater (gal/day)	Total NPDES Discharge Locations	Wastewater Treatment Plants Discharging to Surface Water	Wastewater Treatment Plant Permitted Flow Rate (MGD)	Combined Sewer Overflow Locations
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	42.9	14,163	883.5	22%	787.0	22%	54539	0	0	11	1	1.2	0
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	37.2	18,161	78.7	1%	434.0	76%	30076	4	736000	1	0	0	0
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	43.0	4,223	1177.8	100%	54.0	1%	3742	0	0	15	0	0	0
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	42.4	5,992	1686.2	99%	475.0	4%	32918	0	0	0	1	3	0
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	42.0	28,626	3043.1	37%	2932.0	17%	203188	1	36000	42	3	6.6	0
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	44.1	5,817	1436.1	91%	729.0	3%	50520	0	0	1	0	0	1
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	41.6	1,925	62.7	11%	474.0	66%	32848	0	0	0	0	0	0
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	34.4	8,896	1093.6	35%	404.0	63%	27997	3	666969	1	0	0	0
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	45.4	35,355	9054.7	97%	2137.0	1%	148094	0	0	123	0	0	5
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	37.4	3,728	0.0	0%	0.0	0%	0	0	0	0	0	0	0
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	43.4	45,938	854.3	7%	2253.0	49%	156133	2	23490	17	1	1.6	0
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	34.8	11,013	32.8	1%	316.0	92%	21899	2	51800	0	0	0	0
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	32.6	9,989	0.0	0%	0.0	0%	0	0	0	0	0	0	0
PARKER RIVER	Estuarine	7663	6	7208	455	42.4	25,476	175.5	2%	484.0	81%	33541	1	15000	7	0	0	0
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	36.4	13,264	0.0	0%	0.0	0%	0	0	0	2	0	0	0
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	37.5	11,805	597.0	16%	804.0	26%	55717	1	650000	6	0	0	0
QUIVETT CREEK	Estuarine	2247	2	1808	439	35.4	5,327	0.0	0%	0.0	0%	0	0	0	0	0	0	0
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	43.3	5,650	927.3	59%	619.0	14%	42897	0	0	7	1	0.8	0
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	44.3	4,003	131.9	12%	206.0	71%	14276	1	37500	2	0	0	0
ROWLEY RIVER	Estuarine	3184	7	2941	244	41.9	10,257	4.9	0%	36.0	97%	2495	0	0	2	0	0	0
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	41.2	18,451	4682.4	87%	668.0	3%	46292	0	0	18	1	41	0
SANDWICH HARBOR	Estuarine	8726	3	7818	908	37.0	24,112	185.9	2%	392.0	77%	27166	1	13250	6	0	0	0
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	43.6	37,384	9160.7	89%	9873.0	6%	684199	0	0	71	1	25.8	3
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	47.4	2,268	441.9	77%	277.0	10%	19196	0	0	0	0	0	0
SCITUATE HARBOR	Estuarine	2554	8	1647	906	46.4	6,367	780.2	47%	1847.0	42%	127997	0	0	3	0	0	0
SCORTON CREEK	Estuarine	7673	2	7049	624	35.6	20,915	150.7	2%	537.0	90%	37214	3	66000	3	0	0	0
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	38.2	8,044	379.4	15%	266.0	93%	18434	1	22020	3	0	0	0
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	35.1	4,830	0.0	0%	0.0	0%	0	0	0	4	0	0	0
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	34.0	9,856	0.0	0%	0.0	0%	0	0	0	1	0	0	0
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	46.2	11,582	1199.1	40%	2186.0	34%	151490	1	6500	4	0	0	0
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	34.5	35,718	25.3	0%	151.0	72%	10464	2	55500	6	0	0	0
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	34.5	9,849	124.2	4%	23.0	24%	1594	1	25815	3	0	0	0
Total		438841	834	293359	145482	40.8	997425	99714	34%	90149	8%	6247326	4	3614537	1071	15	530	43

2026 ACRS Data Table: Marinas

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Moorings (#)	Mooring Area (acres)	Moorings (% of Water Area)	Slips (#)	Slips per Water Area (% of Water Area)
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	5	66.1	6%	305	27%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	144	256.8	3%	1531	16%
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	0	28.3	1%	35	1%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	0	0.0	0%	0	0%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	0	86.9	6%	414	30%
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	0	0.0	0%	0	0%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	0	0.0	0%	0	0%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	150	28.3	0%	0	0%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	0	0.0	0%	43	9%
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	10	0.0	0%	0	0%
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	0	16.2	1%	0	0%
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	0	1.2	0%	14	2%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	24	41.4	1%	1113	39%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	0	196.2	5%	0	0%
COHASSET HARBOR	Estuarine	6005	22	4127	1878	0	19.2	1%	75	4%
DANVERS RIVER	Estuarine	19467	16	18755	713	0	46.4	7%	305	43%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	647	78.6	5%	120	7%
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	0	0.0	0%	0	0%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	0	39.0	2%	80	4%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	0	0.0	0%	0	0%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	413	345.9	31%	228	20%
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	41	119.1	8%	113	7%
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	0	0.0	0%	0	0%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	0	0.0	0%	0	0%
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	0	9.2	0%	320	16%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	0	0.0	0%	0	0%
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	0	0.0	0%	0	0%
IPSWICH RIVER	Estuarine	6026	21	5616	410	0	16.0	4%	0	0%
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	0	4.2	0%	54	2%
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	0	0.0	0%	0	0%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	0	0.0	0%	0	0%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	0	11.4	2%	0	0%
LITTLE HARBOR	Estuarine	1702	9	982	719	0	0.0	0%	0	0%
LONG BEACH	Inter-Estuarine	2503	8	1528	974	0	0.0	0%	0	0%
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	0	10.4	3%	0	0%
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	0	0.0	0%	0	0%
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	2	77.2	23%	56	17%
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	0	0.0	0%	0	0%

2026 ACRS Data Table: Marinas

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Moorings (#)	Mooring Area (acres)	Moorings (% of Water Area)	Slips (#)	Slips per Water Area (% of Water Area)
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	750	284.1	51%	6	1%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	0	0.0	0%	0	0%
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	236	94.4	3%	1197	32%
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	0	52.8	2%	0	0%
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	0	0.0	0%	0	0%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	0	0.0	0%	0	0%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	0	66.8	3%	686	28%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	0	0.0	0%	0	0%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	0	65.9	3%	155	7%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	0	0.0	0%	0	0%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	0	0.0	0%	0	0%
PARKER RIVER	Estuarine	7663	6	7208	455	0	34.2	8%	0	0%
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	0	0.0	0%	0	0%
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	135	110.7	3%	114	3%
QUIVETT CREEK	Estuarine	2247	2	1808	439	0	0.0	0%	0	0%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	0	13.8	1%	0	0%
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	0	0.0	0%	0	0%
ROWLEY RIVER	Estuarine	3184	7	2941	244	0	6.1	3%	60	25%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	12	112.8	2%	193	3%
SANDWICH HARBOR	Estuarine	8726	3	7818	908	0	0.0	0%	0	0%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	0	51.9	1%	271	4%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	0	0.0	0%	0	0%
SCITUATE HARBOR	Estuarine	2554	8	1647	906	40	59.8	7%	367	40%
SCORTON CREEK	Estuarine	7673	2	7049	624	0	0.0	0%	0	0%
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	0	0.0	0%	0	0%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	0	3.7	8%	380	833%
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	0	0.0	0%	0	0%
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	0	40.4	3%	87	7%
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	0	66.7	0%	250	1%
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	0	0.0	0%	200	792%
Total		438841	834	293359	145482	2609	2562	2%	8772	6%

2026 ACRS Data Table: Shellfish Closures

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	Approved (acres)	Conditionally Approved (acres)	Conditionally Restricted (acres)	Prohibited (acres)	Restricted (acres)	Total (acres)	% Approved or Conditionally Approved
ANNISQUAM RIVER	Estuarine	5650	4540	1110	156	968	0	218	0	1342	84%
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	9580	9578	0	0	1271	8699	0	9971	0%
BARNSTABLE HARBOR	Estuarine	22302	18446	3856	3338	1162	0	209	0	4709	96%
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	3682	480	31	0	0	451	0	482	6%
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	3085	1384	0	0	398	1201	0	1599	0%
BLACK ROCK CREEK	Estuarine	3275	2746	529	0	0	0	730	0	730	0%
BLACKS CREEK / QUINCY BAY	Estuarine	5334	1733	3600	0	0	508	3359	0	3866	0%
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	4852	8072	5499	2626	0	91	0	8216	99%
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	1320	461	448	0	0	79	0	528	85%
BOSTON HARBOR ISLANDS	Estuarine	15712	1023	14689	0	0	289	14613	0	14901	0%
BREWSTER COAST	Inter-Estuarine	6078	3511	2568	2576	0	0	0	0	2576	100%
CHASE GARDEN CREEK	Estuarine	5487	4700	787	710	100	0	157	0	967	84%
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	13697	2825	0	0	118	2523	0	2641	0%
COASTAL PLUM ISLAND SOUND	Estuarine	11965	7922	4043	955	3182	71	358	0	4567	91%
COHASSET HARBOR	Estuarine	6005	4127	1878	347	466	0	1169	0	1982	41%
DANVERS RIVER	Estuarine	19467	18755	713	0	0	0	725	0	725	0%
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	3677	1667	1	4	0	1623	0	1628	0%
ELLISVILLE HARBOR	Estuarine	3579	2417	1162	1161	0	0	20	0	1180	98%
ESSEX RIVER / ESSEX BAY	Estuarine	12632	10535	2097	187	2356	0	161	45	2749	92%
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	84	249	254	0	0	0	0	254	100%
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	3662	1132	0	0	0	1136	0	1136	0%
GLOUCESTER HARBOR	Estuarine	3142	1583	1560	0	0	0	1557	0	1557	0%
GOOD HARBOR	Inter-Estuarine	2638	2045	593	103	0	0	497	0	600	17%
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	3497	0	0	0	0	0	0	0	0%
GREEN HARBOR	Inter-Estuarine	5011	2957	2054	285	0	0	1865	0	2151	13%
HERRING BROOK / GREAT POND	Inter-Estuarine	881	881	0	0	0	0	0	0	0	0%
HERRING RIVER / HERRING POND	Estuarine	1212	680	532	520	0	0	76	0	596	87%
IPSWICH RIVER	Estuarine	6026	5616	410	0	398	0	105	0	503	79%
JONES RIVER / KINGSTON BAY	Estuarine	7862	4950	2913	0	2264	0	667	0	2931	77%
KETTLE COVE	Inter-Estuarine	1514	1447	66	0	0	0	73	0	73	0%
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	1447	596	608	0	0	0	0	608	100%
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	1916	463	343	0	0	110	0	453	76%
LITTLE HARBOR	Estuarine	1702	982	719	0	0	0	733	0	733	0%
LONG BEACH	Inter-Estuarine	2503	1528	974	687	0	0	295	0	983	70%
MAGNOLIA COAST	Inter-Estuarine	1022	614	408	0	0	0	401	0	401	0%
MANCHESTER COAST	Inter-Estuarine	603	255	348	0	0	0	356	0	356	0%
MANCHESTER HARBOR	Estuarine	4294	3966	329	0	0	0	328	0	328	0%
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5862	2053	1971	0	0	111	0	2082	95%

2026 ACRS Data Table: Shellfish Closures

Assessment Unit	Type	Total Area (acres)	Land Area (acres)	Water Area (acres)	Approved (acres)	Conditionally Approved (acres)	Conditionally Restricted (acres)	Prohibited (acres)	Restricted (acres)	Total (acres)	% Approved or Conditionally Approved
MARBLEHEAD HARBOR	Estuarine	1740	1178	562	0	0	0	563	0	563	0%
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	1695	1216	0	125	0	1095	0	1219	10%
MERRIMACK RIVER	Estuarine	11900	8184	3715	687	0	1471	1983	0	4141	17%
NAHANT BAY	Inter-Estuarine	4769	1582	3187	0	0	0	3315	0	3315	0%
NAMELOC HEIGHTS	Inter-Estuarine	2235	556	1680	1685	0	0	0	0	1685	100%
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	3106	945	947	0	0	60	0	1007	94%
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	9348	2472	0	0	184	2466	0	2650	0%
NOBSCUSSET HARBOR	Inter-Estuarine	1486	1196	290	317	0	0	0	0	317	100%
NORTH RIVER / SOUTH RIVER	Estuarine	14947	12710	2237	0	1232	0	1550	0	2782	44%
PAINE'S CREEK / STONY BROOK	Estuarine	4705	3794	911	931	0	0	14	0	945	99%
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	3672	1436	1397	137	0	70	0	1604	96%
PARKER RIVER	Estuarine	7663	7208	455	0	187	0	357	0	544	34%
PROVINCETOWN COAST	Inter-Estuarine	8031	4378	3653	3731	124	0	3	0	3858	100%
PROVINCETOWN HARBOR	Estuarine	7821	3779	4042	3545	219	0	649	127	4541	83%
QUIVETT CREEK	Estuarine	2247	1808	439	441	0	0	54	0	495	89%
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	1565	931	154	0	0	776	0	930	17%
ROCKY POINT	Inter-Estuarine	1906	1085	821	564	0	0	272	0	836	67%
ROWLEY RIVER	Estuarine	3184	2941	244	0	293	0	49	0	342	86%
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	5377	5574	0	0	0	5582	0	5582	0%
SANDWICH HARBOR	Estuarine	8726	7818	908	881	24	0	167	6	1077	84%
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	10300	6829	0	0	437	6718	0	7154	0%
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	574	594	610	0	0	0	0	610	100%
SCITUATE HARBOR	Estuarine	2554	1647	906	321	337	0	296	0	955	69%
SCORTON CREEK	Estuarine	7673	7049	624	582	0	0	129	0	711	82%
SCUSSET BEACH	Inter-Estuarine	3414	2524	890	859	0	0	15	0	874	98%
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1651	46	5	31	0	27	0	64	57%
TRURO COAST	Inter-Estuarine	5557	3475	2082	2127	0	0	0	0	2127	100%
WEIR RIVER / STRAITS POND	Estuarine	4320	3011	1309	0	0	271	1114	0	1384	0%
WELLFLEET HARBOR	Estuarine	31968	12406	19561	19823	252	0	111	0	20187	99%
WEST SANDWICH	Inter-Estuarine	3447	3422	25	0	0	0	23	0	23	0%
Total		438841	293359	145482	59788	16487	5017	72153	179	153624	50%

2026 ACRS Data Table: Social Metrics

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Total Public Coastal Access (acres)	Public Coastal Access (% of Watershed)	Public Beaches	Open Beach Days: Good (≥ 98% Open)	Open Beach Days: Needs Improvement (<98% Open)	Open Beach Days: Needs Improvement (<90% Open)	Public Beach (miles)	Public Beach (acres)	Public Beach Coastline (% of Coastline)	Public Beach Area (% of Watershed)	Beach Action Days (2016-2025)	Average Action Days per Year (%)	Boat Launches (#)	Boat Ramps (#)
ANNISQUAM RIVER	Estuarine	5650	37	4540	1110	783.6	14%	1.0	1.0	0.0	0.0	0.3	144.7	1%	3%	0	0	13	3
BACK RIVER / FORE RIVER / HINGHAM BAY	Estuarine	19159	65	9580	9578	1620.7	8%	20.0	14.0	4.0	2.0	5.4	117.2	8%	1%	550	55	8	4
BARNSTABLE HARBOR	Estuarine	22302	31	18446	3856	5221.1	23%	2.0	2.0	0.0	0.0	6.4	1478.4	21%	7%	14	1	5	3
BEAVER DAM BROOK / BARTLETT POND	Inter-Estuarine	4162	2	3682	480	18.2	0%	1.0	1.0	0.0	0.0	1.0	18.2	63%	0%	2	0	0	0
BELLE ISLE CREEK / WINTHROP BAY	Estuarine	4469	20	3085	1384	441.8	10%	6.0	3.0	1.0	2.0	1.5	45.0	8%	1%	543	54	3	1
BLACK ROCK CREEK	Estuarine	3275	2	2746	529	503.1	15%	1.0	1.0	0.0	0.0	2.0	104.7	100%	3%	0	0	1	1
BLACKS CREEK / QUINCY BAY	Estuarine	5334	10	1733	3600	302.5	6%	5.0	0.0	1.0	4.0	2.9	43.6	29%	1%	1078	108	2	1
BLUEFISH RIVER / BACK RIVER / DUXBURY BAY	Estuarine	12925	42	4852	8072	642.5	5%	4.0	4.0	0.0	0.0	4.0	277.9	10%	2%	12	1	14	2
BOAT MEADOW CREEK / ROCK HARBOR	Estuarine	1780	2	1320	461	131.5	7%	3.0	3.0	0.0	0.0	0.8	23.2	45%	1%	3	0	2	2
BOSTON HARBOR ISLANDS	Estuarine	15712	27	1023	14689	518.9	3%	3.0	3.0	0.0	0.0	0.6	217.5	2%	1%	10	1	0	0
BREWSTER COAST	Inter-Estuarine	6078	3	3511	2568	424.9	7%	7.0	7.0	0.0	0.0	1.7	370.9	52%	6%	9	1	5	1
CHASE GARDEN CREEK	Estuarine	5487	2	4700	787	791.9	14%	4.0	4.0	0.0	0.0	1.2	117.2	73%	2%	4	0	3	1
CHELSEA CREEK / MYSTIC RIVER / CHARLES RIVER	Estuarine	16522	47	13697	2825	226.0	1%	2.0	2.0	0.0	0.0	0.1	3.6	0%	0%	0	0	2	1
COASTAL PLUM ISLAND SOUND	Estuarine	11965	67	7922	4043	5662.6	47%	5.0	4.0	1.0	0.0	2.1	3915.7	3%	33%	22	2	2	2
COHASSET HARBOR	Estuarine	6005	22	4127	1878	144.0	2%	5.0	4.0	1.0	0.0	1.2	88.1	5%	1%	104	10	2	1
DANVERS RIVER	Estuarine	19467	16	18755	713	141.5	1%	3.0	1.0	1.0	1.0	0.1	16.2	1%	0%	449	45	4	2
EEL RIVER / PLYMOUTH HARBOR	Estuarine	5345	9	3677	1667	167.8	3%	5.0	5.0	0.0	0.0	3.6	123.7	41%	2%	17	2	3	2
ELLISVILLE HARBOR	Estuarine	3579	3	2417	1162	195.3	5%	1.0	1.0	0.0	0.0	0	76.4	0%	2%	0	0	0	0
ESSEX RIVER / ESSEX BAY	Estuarine	12632	56	10535	2097	2515.4	20%	4.0	4.0	0.0	0.0	2.2	1010.7	4%	8%	0	0	5	2
FIRST ENCOUNTER BEACH	Inter-Estuarine	333	1	84	249	2.8	1%	1.0	1.0	0.0	0.0	0.2	2.8	22%	1%	0	0	0	0
FOREST RIVER / SOUTH RIVER / SALEM HARBOR	Estuarine	4794	10	3662	1132	319.2	7%	7.0	2.0	2.0	3.0	0.4	70.6	4%	1%	584	58	2	1
GLOUCESTER HARBOR	Estuarine	3142	13	1583	1560	244.1	8%	3.0	2.0	1.0	0.0	0.3	59.5	3%	2%	63	6	7	0
GOOD HARBOR	Inter-Estuarine	2638	6	2045	593	90.1	3%	2.0	1.0	1.0	0.0	0.5	84.7	9%	3%	217	22	0	0
GREAT HERRING POND / BOURNEDALE	Inter-Estuarine	3497	0	3497	0	0.0	0%	0.0	0.0	0.0	0.0	0	0.0	0%	0%	0	0	0	0
GREEN HARBOR	Inter-Estuarine	5011	4	2957	2054	198.7	4%	3.0	3.0	0.0	0.0	2.2	41.0	53%	1%	23	2	2	1
HERRING BROOK / GREAT POND	Inter-Estuarine	881	0	881	0	21.4	2%	1.0	1.0	0.0	0.0	0.0	0.5	0%	0%	0	0	1	0
HERRING RIVER / HERRING POND	Estuarine	1212	1	680	532	48.7	4%	1.0	1.0	0.0	0.0	0.5	31.5	62%	3%	0	0	0	0
IPSWICH RIVER	Estuarine	6026	21	5616	410	835.0	14%	2.0	2.0	0.0	0.0	0.1	256.8	0%	4%	0	0	2	1
JONES RIVER / KINGSTON BAY	Estuarine	7862	8	4950	2913	249.7	3%	3.0	1.0	2.0	0.0	0.1	6.4	2%	0%	86	9	5	2
KETTLE COVE	Inter-Estuarine	1514	1	1447	66	137.7	9%	3.0	2.0	1.0	0.0	0.3	58.9	27%	4%	53	5	0	0
KINGSBURY BEACH TO COOKS BROOK BEACH	Inter-Estuarine	2042	3	1447	596	8.5	0%	6.0	4.0	2.0	0.0	0.9	8.5	32%	0%	86	9	1	0
LANESVILLE COAST / HALIBUT POINT	Inter-Estuarine	2379	6	1916	463	130.0	5%	1.0	1.0	0.0	0.0	0.1	1.6	1%	0%	7	1	3	1
LITTLE HARBOR	Estuarine	1702	9	982	719	4.7	0%	2.0	2.0	0.0	0.0	0.3	4.2	3%	0%	13	1	0	0
LONG BEACH	Inter-Estuarine	2503	8	1528	974	193.0	8%	5.0	5.0	0.0	0.0	1.2	71.8	16%	3%	3	0	3	0
MAGNOLIA COAST	Inter-Estuarine	1022	4	614	408	17.1	2%	2.0	1.0	1.0	0.0	0.4	6.2	10%	1%	44	4	1	1
MANCHESTER COAST	Inter-Estuarine	603	4	255	348	14.4	2%	3.0	3.0	0.0	0.0	0.6	14.2	14%	2%	20	2	0	0
MANCHESTER HARBOR	Estuarine	4294	6	3966	329	16.4	0%	2.0	0.0	2.0	0.0	0.1	6.6	2%	0%	117	12	1	1
MANOMET / INDIAN BROOK	Inter-Estuarine	7915	5	5862	2053	35.0	0%	0.0	0.0	0.0	0.0	0.0	0.0	1%	0%	0	0	1	1

2026 ACRS Data Table: Social Metrics

Assessment Unit	Type	Total Area (acres)	Coast Line Length (miles)	Land Area (acres)	Water Area (acres)	Total Public Coastal Access (acres)	Public Coastal Access (% of Watershed)	Public Beaches	Open Beach Days: Good (≥ 98% Open)	Open Beach Days: Needs Improvement (<98% Open)	Open Beach Days: Needs Improvement (<90% Open)	Public Beach (miles)	Public Beach (acres)	Public Beach Coastline (% of Coastline)	Public Beach Area (% of Watershed)	Beach Action Days (2016-2025)	Average Action Days per Year (%)	Boat Launches (#)	Boat Ramps (#)
MARBLEHEAD HARBOR	Estuarine	1740	7	1178	562	57.8	3%	7.0	7.0	0.0	0.0	0.1	17.5	1%	1%	105	11	3	2
MARBLEHEAD NECK/SWAMPSCOTT COAST	Inter-Estuarine	2911	9	1695	1216	82.2	3%	5.0	5.0	0.0	0.0	1.2	24.5	13%	1%	2	0	0	0
MERRIMACK RIVER	Estuarine	11900	4	8184	3715	1892.8	16%	5.0	5.0	0.0	0.0	3.8	490.1	97%	4%	49	5	5	5
NAHANT BAY	Inter-Estuarine	4769	9	1582	3187	114.9	2%	11.0	6.0	2.0	3.0	3.7	99.8	40%	2%	962	96	2	2
NAMELOC HEIGHTS	Inter-Estuarine	2235	2	556	1680	16.2	1%	1.0	1.0	0.0	0.0	0.3	10.6	14%	0%	0	0	0	0
NAMSKAKET CREEK / LITTLE NAMSKAKET CREEK	Estuarine	4051	5	3106	945	1268.4	31%	4.0	4.0	0.0	0.0	0.9	1113.2	18%	27%	2	0	2	1
NEPONSET RIVER / DORCHESTER BAY	Estuarine	11819	27	9348	2472	749.0	6%	8.0	5.0	0.0	3.0	1.9	144.9	7%	1%	849	85	3	2
NOBSCUSSET HARBOR	Inter-Estuarine	1486	4	1196	290	43.4	3%	8.0	8.0	0.0	0.0	0.6	35.7	16%	2%	1	0	4	0
NORTH RIVER / SOUTH RIVER	Estuarine	14947	7	12710	2237	1809.8	12%	3.0	3.0	0.0	0.0	3.7	46.9	53%	0%	5	1	5	3
PAINE'S CREEK / STONY BROOK	Estuarine	4705	2	3794	911	187.8	4%	3.0	3.0	0.0	0.0	0.8	15.4	43%	0%	3	0	1	0
PAMET RIVER / LITTLE PAMET RIVER	Estuarine	5108	5	3672	1436	1725.0	34%	4.0	4.0	0.0	0.0	0.3	1574.0	7%	31%	9	1	2	1
PARKER RIVER	Estuarine	7663	6	7208	455	2964.2	39%	1.0	1.0	0.0	0.0	0	316.7	0%	4%	0	0	2	2
PROVINCETOWN COAST	Inter-Estuarine	8031	18	4378	3653	6343.2	79%	1.0	1.0	0.0	0.0	12.7	6340.0	70%	79%	0	0	1	0
PROVINCETOWN HARBOR	Estuarine	7821	15	3779	4042	2966.0	38%	11.0	7.0	4.0	0.0	4.8	2962.7	33%	38%	295	30	11	1
QUIVETT CREEK	Estuarine	2247	2	1808	439	406.1	18%	3.0	3.0	0.0	0.0	1.2	213.7	61%	10%	1	0	1	0
ROCKPORT HARBOR (SANDY BAY)	Estuarine	2496	6	1565	931	57.2	2%	3.0	3.0	0.0	0.0	0.4	17.0	7%	1%	21	2	1	0
ROCKY POINT	Inter-Estuarine	1906	5	1085	821	0.0	0%	0.0	0.0	0.0	0.0	0.0	0.0	0%	0%	0	0	0	0
ROWLEY RIVER	Estuarine	3184	7	2941	244	1075.6	34%	1.0	1.0	0.0	0.0	0.0	9.3	0%	0%	0	0	3	2
SALEM SOUND / BEVERLY HARBOR	Estuarine	10951	13	5377	5574	141.6	1%	12.0	5.0	7.0	0.0	1.2	128.7	9%	1%	442	44	7	1
SANDWICH HARBOR	Estuarine	8726	3	7818	908	434.8	5%	2.0	2.0	0.0	0.0	0.7	133.9	22%	2%	16	2	1	1
SAUGUS RIVER / PINES RIVER / LYNN HARBOR	Estuarine	17129	29	10300	6829	1252.0	7%	10.0	8.0	1.0	1.0	3.2	98.9	11%	1%	225	23	5	4
SCITUATE / COHASSET COAST	Inter-Estuarine	1168	2	574	594	17.8	2%	2.0	1.0	1.0	0.0	0.4	17.8	19%	2%	65	7	0	0
SCITUATE HARBOR	Estuarine	2554	8	1647	906	103.1	4%	2.0	2.0	0.0	0.0	0.2	8.0	2%	0%	39	4	2	2
SCORTON CREEK	Estuarine	7673	2	7049	624	429.6	6%	1.0	1.0	0.0	0.0	1.6	20.5	88%	0%	5	1	1	0
SCUSSET BEACH	Inter-Estuarine	3414	3	2524	890	659.6	19%	2.0	2.0	0.0	0.0	1.0	485.8	35%	14%	3	0	0	0
SESUIT CREEK / SESUIT HARBOR	Estuarine	1696	1	1651	46	68.6	4%	3.0	3.0	0.0	0.0	0.0	10.1	3%	1%	0	0	4	2
TRURO COAST	Inter-Estuarine	5557	5	3475	2082	1834.8	33%	5.0	5.0	0.0	0.0	2.4	1834.7	44%	33%	2	0	1	0
WEIR RIVER / STRAITS POND	Estuarine	4320	16	3011	1309	279.1	6%	9.0	8.0	1.0	0.0	1.4	44.1	9%	1%	45	5	5	4
WELLFLEET HARBOR	Estuarine	31968	38	12406	19561	9617.4	30%	10.0	9.0	1.0	0.0	1.5	8471.8	4%	27%	46	5	19	1
WEST SANDWICH	Inter-Estuarine	3447	0	3422	25	54.7	2%	0.0	0.0	0.0	0.0	0	0.0	0%	0%	0	0	1	1
Total		438841	834	293359	145482	59672	14%	266	209	38	19	96	33605	11%	8%	7325	733	195	75