

Appendix I. Supplemental Information

I.1. Climate and Meteorology

Conditions that affect the weather and climate in an area include wind velocity, air temperature, and precipitation. Long-term averages of these conditions produce the regional climate. Extreme meteorological conditions are produced in the Mid-Atlantic region of the United States during tropical and extra-tropical storms. Over the open ocean, meteorological characteristics are fundamentally influenced by oceanographic conditions and are therefore sometimes jointly discussed as “metocean” conditions. In temperate regions such as the Mid-Atlantic, several metocean conditions are highly seasonal and driven by both atmospheric and oceanic circulation patterns. Daily variability in meteorological conditions will drive fluctuations in wind farm power production and associated stresses on the WTGs, while long-term performance may be estimated based on the climatic conditions.

I.1.1 Regional Climate Overview

The Atlantic seaboard is classified as a mid-latitude climate zone based on the Köppen Climate Classification System. This larger region, which encompasses the Mid-Atlantic region, is characterized by mostly moist subtropical conditions, generally warm and humid in the summer with relatively mild winters (BOEM 2021). Prevailing winds at the middle latitudes over North America occur mostly west to east (“westerlies”) and contribute to seasonal variability along the Atlantic seaboard (NJDEP 2010).

Consistent with the larger Mid-Atlantic region, the climate across New York state can be described as humid and continental (New York State Climate Action Council 2010). The New York Bight region along New York state’s southern coast experiences four distinct seasons with cold air temperatures during the winter months. Areas along the Atlantic coast, including the New York Bight, are especially prone to coastal storms and their associated effects, including heavy precipitation, high winds, and coastal flooding (New York State Climate Action Council 2010). Coastal storms are common in the vicinity of the Lease Area and include hurricanes and tropical storms during the warmer months (July to September), and northeasters or “nor’easters” (extratropical storms in which the winds in coastal areas blow from the northeast) during the cooler months (October to April). Extreme rainfall and flooding associated with storm events contribute to erosion of New York state’s coastal wetland areas and inland areas adjacent to the shoreline (New York State Climate Action Council 2010).

The North Atlantic Oscillation (NAO) also affects climate in the Northwest Atlantic on the scale of decades (NJDEP 2010; Townsend et al. 2004). The NAO is calculated as the wintertime pressure difference between the high-pressure system over the Azores Islands and the low-pressure system over Iceland (NJDEP 2010; Townsend et al. 2004). Shifts in the ratio of these pressures contribute to warmer or cooler average winters. Since the late 1970s, warmer NAO conditions have persisted on average (NJDEP 2010; Townsend et al. 2004). The NAO may be influenced by the El Niño-Southern Oscillation, which is a large-scale, multi-year fluctuation in sea surface temperatures in the Pacific Ocean (NJDEP 2010). The NAO may also be correlated with an 11-year solar cycle (IPCC 2021).

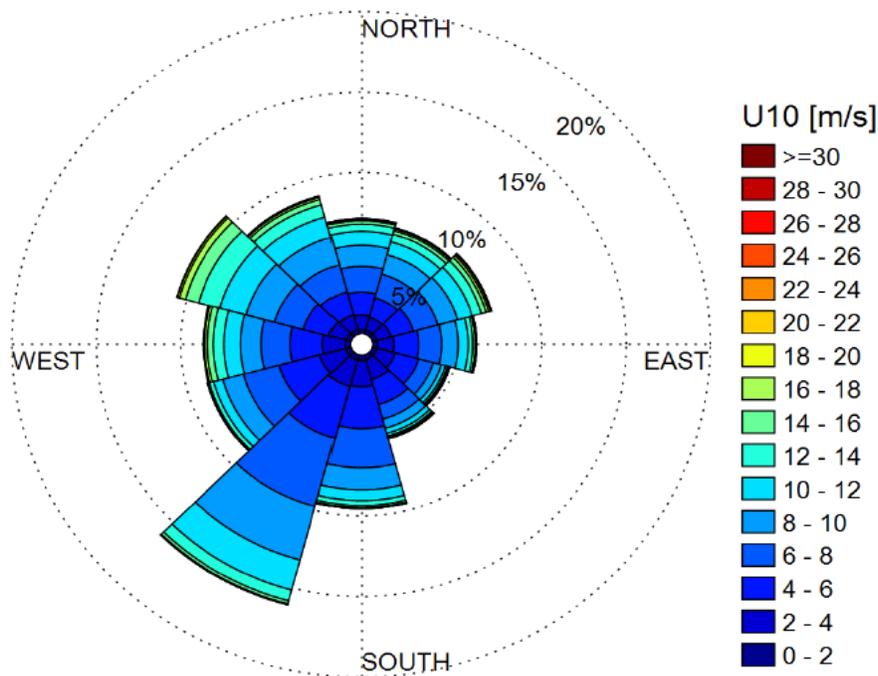
The U.S. Northeast region is currently subject to climate changes associated with global warming that are primarily attributed to human activities, especially the production of heat-trapping (i.e., “greenhouse”) gases (Dupigny-Giroux et al. 2018; Hayhoe et al. 2018; IPCC 2021). These regional changes include an average winter-spring increase in air temperature of 1.67 °F (increase of 0.93 °C) between 1940 and 2014. By 2035, the Northeast region is expected to be 3.6 °F (2 °C) warmer on average than during the pre-industrial era (Dupigny-Giroux et al. 2018). The Northeast region has also seen a 55 percent increase in

the number of heaviest 1-percent precipitation events between 1958 and 2016 (Dupigny-Giroux et al. 2018). Severe storms have become more frequent and more intense. Storm flood heights driven by hurricanes in New York City have increased by more than 3.9 feet (1.2 meters) over the last thousand years (Dupigny-Giroux et al. 2018). Due to predicted increases in average global temperatures, the frequency and intensity of extreme regional weather events such as heat waves, strong winds, and heavy precipitation are expected to increase in the coming decades (New York State Climate Action Council 2010; Dupigny-Giroux et al. 2018).

I.1.2 Winds

Winds during the summer are typically from the southwest and flow parallel to the shore, while winds in the winter months are typically from the northwest and flow perpendicular to the shore. Spring and fall are more variable, with wind currents from either the southwest or northeast (Schofield et al. 2008). Empire has been collecting wind data, along with other directional wave and meteorological condition information, from a floating metocean buoy for 2 years. This metocean data will be used to inform final siting and design of the Projects (Empire 2022). Empire has also performed a preliminary metocean analysis using data from January 2000 through October 2019. This analysis shows that annual average wind speeds in the Lease Area at 33 feet (10 meters) AMSL range between 9.8 feet per second (3 meters per second [m/s]) and 23 feet per second (7 m/s) (Empire 2022 citing Kjeller Vindteknikk 2020). Winds in the Project area are predominantly from the south to southwest and the northwest (COP Appendix I; Empire 2022) as depicted on Figure I-1.

Lease Area OCS-A 0512 - 10 m height - All year



Source: COP Appendix I; Empire 2022

Note: Lease Area OCS-A 0512 is modeled at 40.28, -73.31 (latitude, longitude)

Figure I-1 All-Year Wind Rose at 33 Feet (10 Meters) AMSL for Lease Area OCS-A 0512 for the Period 2002–2019

In addition to the wind data presented above, representative data for wind speed and wind direction are publicly available from NOAA’s National Data Buoy Center for the Long Island buoy (Buoy No. 44025) (NOAA 2021a) and the New York Harbor Entrance buoy (Buoy No. 44065) (NOAA 2021b). The Long Island buoy is within the Lease Area at coordinates of 40.251, -73.164 (latitude, longitude) and is 30 nm south of Islip, New York. The New York Harbor Entrance buoy is approximately 8 miles west of the Lease Area at coordinates of 40.369, -73.703.

The most recent data available from the New York Harbor Entrance buoy are for the period of January 2015 through December 2020. The maximum wind speed¹ recorded during this period was 47.4 miles per hour (mph) (21.2 m/s) in 2018, with average wind speeds from 11.2 to 15.7 mph (5 to 7 m/s) across these 6 years (Table I-1). Using 2017 as an example year to consider seasonal averages, the maximum wind speed was recorded in the spring of 2017 at 47.0 mph (21 m/s), although the highest average seasonal wind speed of 16.8 mph (7.5 m/s) occurred in the winter of 2017 (Table I-2). The average wind direction for all seasons between 2015 and 2020 was from the southwest. In other years, higher maximum wind speeds have occurred in summer and fall months due to tropical cyclones. For example, a maximum sustained wind speed of 51.4 mph (23.0 m/s) and gusts up to 70.5 mph (31.5 m/s) were recorded at the New York Harbor Entrance buoy on August 4, 2020, in association with Hurricane Isaias (NOAA 2021b).

Data from the Long Island buoy (Buoy No. 44025) in the Lease Area are available for the period of October 1975 through December 2008. The Long Island buoy measured similar conditions as the New York Harbor Entrance buoy with a maximum wind speed of 51.0 mph (22.8 m/s) in 1991, and average wind speeds from 11.2 to 18.9 mph (5.0 to 8.4 m/s) across the 34 years recorded (NOAA 2021a).

Table I-1 Annual Average and Maximum Wind Speed and Direction at New York Harbor Entrance Buoy (Buoy No. 44065) from January 2015 to December 2020

| Year | Average Wind Speed | | Maximum Wind Speed | | Average Wind Direction |
|------|--------------------|-----|--------------------|------|-------------------------|
| | mph | m/s | mph | m/s | Degrees from True North |
| 2015 | 14.1 | 6.3 | 41.6 | 18.6 | 202 (Southwest) |
| 2016 | 14.5 | 6.5 | 45.0 | 20.1 | 200 (Southwest) |
| 2017 | 14.3 | 6.4 | 47.0 | 21.0 | 198 (Southwest) |
| 2018 | 14.1 | 6.3 | 47.4 | 21.2 | 191 (Southwest) |
| 2019 | 14.1 | 6.3 | 42.9 | 19.2 | 192 (Southwest) |
| 2020 | 13.9 | 6.2 | 51.4 | 23.0 | 196 (Southwest) |

Source: NOAA 2021b

Note: NOAA buoy measurements for wind speed are averaged over an 8-minute period.

Table I-2 Seasonal Average and Maximum Wind Speed and Direction at New York Harbor Entrance Buoy (Buoy No. 44065) in 2017

| Season | Average Wind Speed | | Maximum Wind Speed | | Average Wind Direction |
|--------|--------------------|-----|--------------------|------|-------------------------|
| | mph | m/s | mph | m/s | Degrees from True North |
| Winter | 16.8 | 7.5 | 44.3 | 19.8 | 223.9 (Southwest) |
| Spring | 14.5 | 6.5 | 47.0 | 21.0 | 187.0 (South) |
| Summer | 11.4 | 5.1 | 30.4 | 13.6 | 183.5 (South) |

¹ NOAA buoy measurements for wind speed are averaged over an 8-minute period. Higher speeds are recorded for 5- to 8-second gusts.

| Season | Average Wind Speed | | Maximum Wind Speed | | Average Wind Direction |
|--------|--------------------|-----|--------------------|------|-------------------------|
| | mph | m/s | mph | m/s | Degrees from True North |
| Fall | 15.2 | 6.8 | 39.1 | 17.5 | 197.8 (Southwest) |

Source: NOAA 2021b

Note: NOAA buoy measurements for wind speed are averaged over an 8-minute period.

I.1.3 Air Temperature and Precipitation

NOAA’s National Centers for Environmental Information, formerly the National Climatic Data Center, defines distinct climatological divisions to represent areas that are nearly climatically homogeneous. Locations within the same climatic division are considered to share the same overall climatic features and influences. The site of the Proposed Action is within the New York coastal division or New York Climate Division 4 (NOAA National Centers for Environmental Information 2021a).

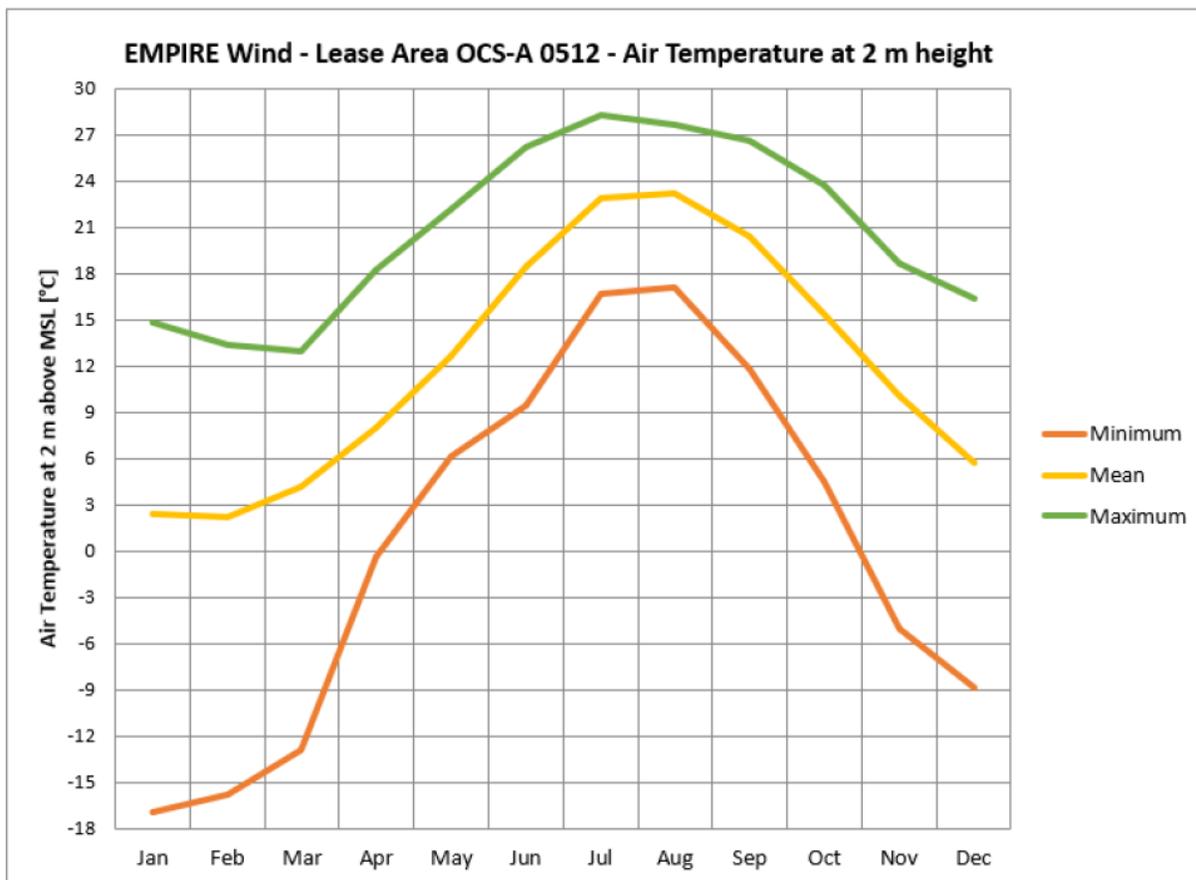
The mean average annual air temperature in the coastal division of New York was 51.4 °F (10.8 °C) between 1895 and 2021 (NOAA National Centers for Environmental Information 2021b). The seasonal mean ranged from 31.9 °F (-0.1 °C) in winter (December through February) to 70.8 °F (21.6 °C) in summer (June through August) (NOAA National Centers for Environmental Information 2021b).

Air temperature information is also available from NOAA’s National Data Buoy Center Long Island buoy (Buoy No. 44025) and New York Harbor Entrance buoy (Buoy No. 44065). This information is presented in Table I-3 and shows air temperatures near the Lease Area ranging from 35 °F to 75 °F (1.67 °C to 23.90 °C), with the higher temperatures during the summer months (Empire 2022 citing NOAA 2018b, 2018c). Minimum, mean, and maximum air temperatures occurring over the Lease Area at 2 meters AMSL from the period between 2002 and 2019 are shown graphically on Figure I-2.

Table I-3 Average Air Temperature at NOAA Buoys in the Study Area

| Month | Average Air Temperature in °F (°C) | |
|-----------|------------------------------------|----------------------------------|
| | Buoy Number 44065 (2008–2018) | Buoy Number 44025 (2007–2018) |
| January | 35.01 (1.67) | 37.98 (3.32) |
| February | 36.66 (2.59) | 38.70 (3.72) |
| March | 39.58 (4.21) | 41.49 (5.27) |
| April | 46.65 (8.14) | 47.03 (8.35) |
| May | 56.71 (13.73) | 55.33 (12.96) |
| June | 66.04 (18.91) | 65.46 (18.59) |
| July | 73.92 (23.29) | 73.29 (22.94) |
| August | 75.02 (23.90) | 73.98 (23.32) |
| September | 69.69 (20.94) | 68.61 (20.34) |
| October | 59.94 (15.52) | 60.53 (15.85) |
| November | 49.10 (9.50) | 51.06 (10.59) |
| December | 42.13 (5.63) | 43.77 (6.54) |

Sources: Empire 2022 citing NOAA 2018b, 2018c



Source: Empire 2022 citing Kjeller Vindteknikk 2020

Figure I-2 Minimum, Mean, and Maximum Air Temperature at 2 Meters AMSL at Lease Area OCS-A 0512

Precipitation in the New York coastal region primarily takes the form of rain and snow. The mean annual precipitation for the coastal region of New York between 1895 and 2021 was 44.89 inches (114.0 centimeters) (NOAA National Centers for Environmental Information 2021c). During the same period, the mean monthly precipitation ranged from 3.40 inches (8.6 centimeters) in February to 4.19 inches (10.6 centimeters) in March (NOAA National Centers for Environmental Information 2021c). A summary of monthly and annual mean temperature and precipitation data collected for the New York coastal division between 1895 and 2021 is presented in Table I-4.

Table I-4 Mean Temperatures and Precipitation for New York Coastal Division, 1895 to 2021

| Month | Average Mean Temperature | | Maximum Mean Temperature | | Minimum Mean Temperature | | Total Mean Precipitation | |
|----------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|
| | °F | °C | °F | °C | °F | °C | Inches | cm |
| January | 30.3 | -0.9 | 38.0 | 3.3 | 22.6 | -5.2 | 3.6 | 9.1 |
| February | 30.8 | -0.7 | 38.7 | 3.7 | 22.8 | -5.1 | 3.4 | 8.6 |
| March | 38.4 | 3.6 | 46.6 | 8.1 | 30.1 | -1.1 | 4.2 | 10.7 |
| April | 47.9 | 8.8 | 57.0 | 13.9 | 38.8 | 3.8 | 3.9 | 9.9 |
| May | 58.1 | 14.5 | 67.6 | 19.8 | 48.7 | 9.3 | 3.8 | 9.7 |

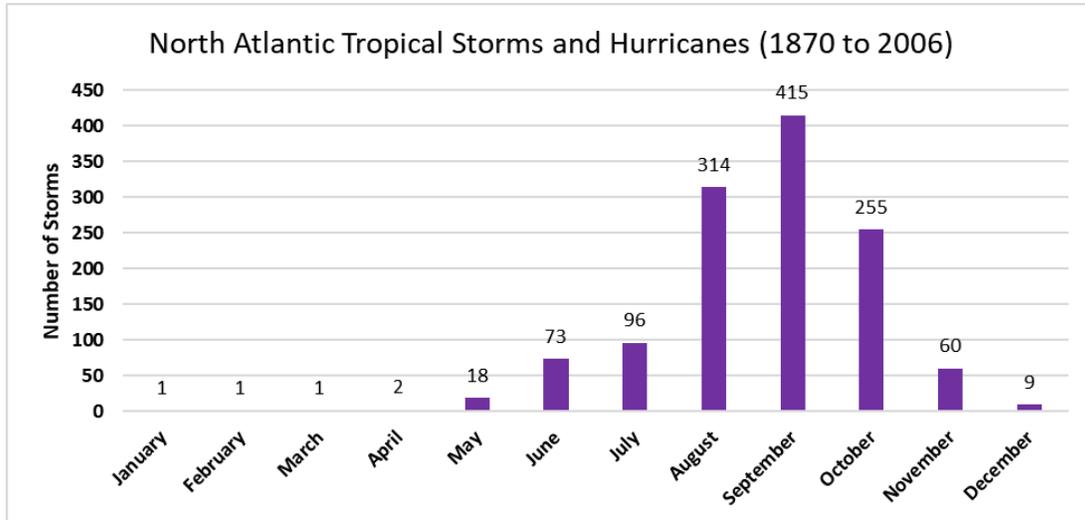
| Month | Average Mean Temperature | | Maximum Mean Temperature | | Minimum Mean Temperature | | Total Mean Precipitation | |
|---------------|--------------------------|-------------|--------------------------|-------------|--------------------------|------------|--------------------------|--------------|
| | °F | °C | °F | °C | °F | °C | Inches | cm |
| June | 67.4 | 19.7 | 76.6 | 24.8 | 58.2 | 14.6 | 3.5 | 8.9 |
| July | 73.1 | 22.8 | 81.9 | 27.7 | 64.3 | 17.9 | 3.7 | 9.4 |
| August | 71.8 | 22.1 | 80.3 | 26.8 | 63.2 | 17.3 | 4.1 | 10.4 |
| September | 65.3 | 18.5 | 74.2 | 23.4 | 56.4 | 13.6 | 3.6 | 9.1 |
| October | 54.8 | 12.7 | 63.8 | 17.7 | 45.7 | 7.6 | 3.6 | 9.1 |
| November | 44.4 | 6.9 | 52.4 | 11.3 | 36.3 | 2.4 | 3.8 | 9.7 |
| December | 34.6 | 1.4 | 42.0 | 5.6 | 27.1 | -2.7 | 4.0 | 10.2 |
| Annual | 51.4 | 10.8 | 59.9 | 15.5 | 42.9 | 6.0 | 44.9 | 114.0 |

Source: NOAA National Centers for Environmental Information 2021b, 2021c
cm = centimeters

I.1.4 Extreme Storm Events

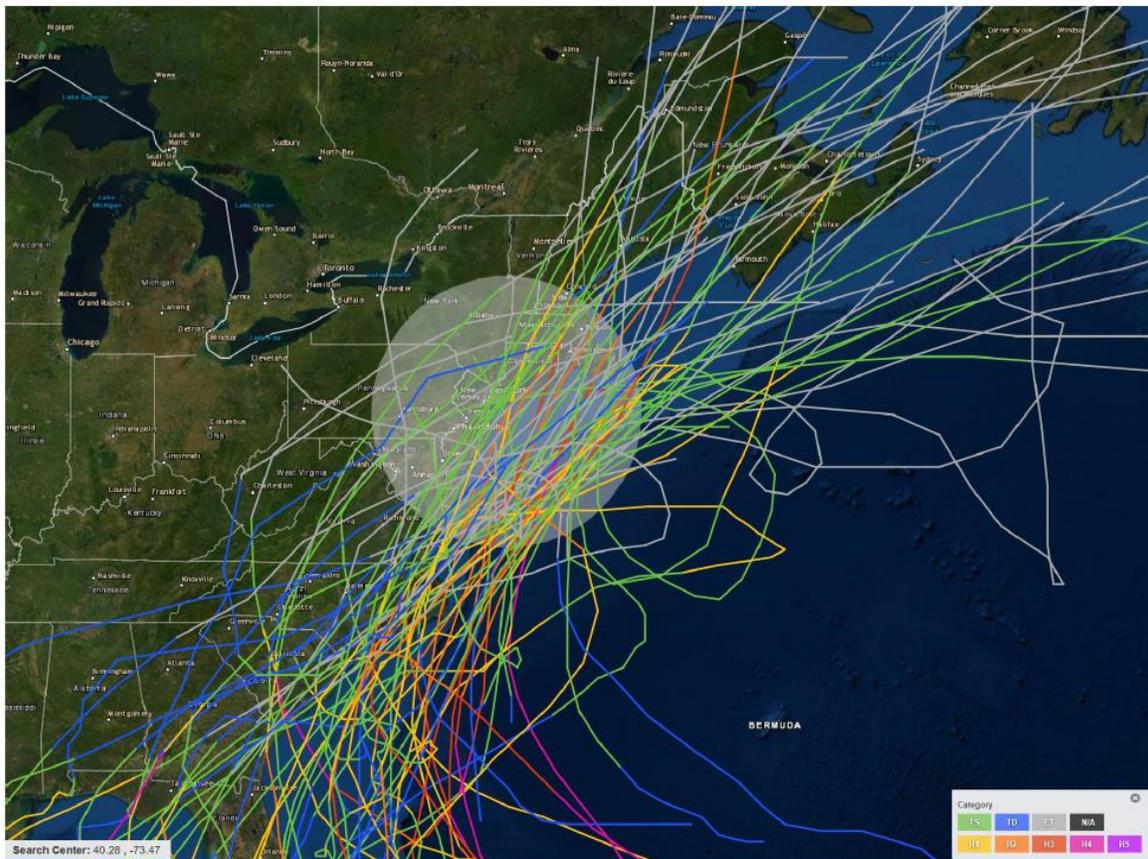
Strong weather events in the Lease Area include, but are not limited to, hurricanes and tropical storms in the warmer months and nor'easters during the winter months. The number of tropical storms, including hurricanes, generally reaches a peak during the period from August to early October (COP Appendix I; Empire 2022). This is consistent with the peak period for tropical cyclones throughout the North Atlantic basin (Figure I-3) (McAdie et al. 2009). Such storms that travel along the coastline of the eastern United States have the potential to affect the Project area with high winds and severe flooding.

Figure I-4 and Figure I-5 identify the hurricane tracks surrounding the Lease Area between 1950 and 2019 (COP Appendix I; Empire 2022). The category for each storm is designated by a color for each segment of its track on Figure I-4 and Figure I-5. Table I-5 lists each of the hurricanes affecting the Lease Area and the corresponding maximum storm categories as the hurricane occurred within 200 nm (370 kilometers) of the Lease Area for the corresponding period (NOAA 2021c). Most historical hurricanes affecting the Lease Area are Category 1, but storms as powerful as Category 3 hurricanes have passed nearby the Lease Area. The New York State ClimAID assessment determined that intense hurricanes are likely to increase in frequency over the 21st century for New York City and Long Island (New York State Climate Action Council 2010).



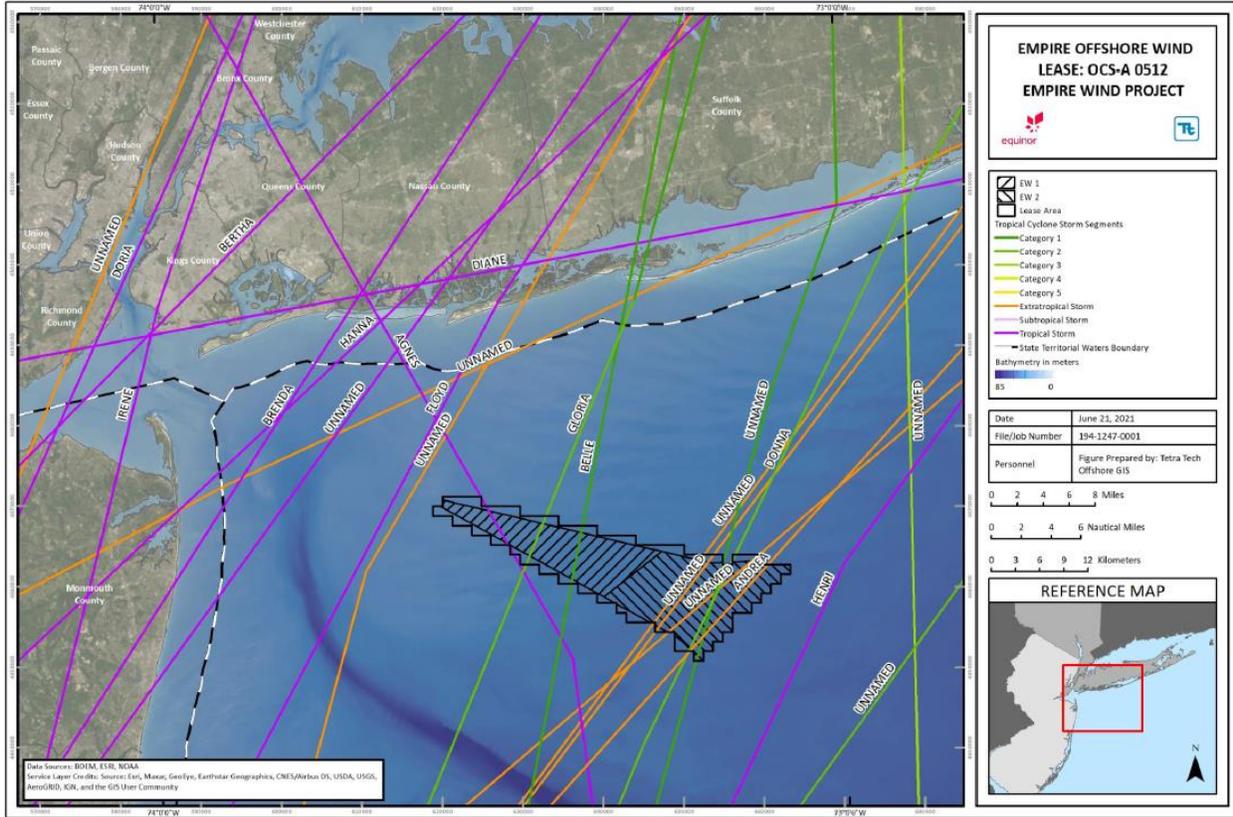
Source: McAdie et al. 2009

Figure I-3 Total Number of North Atlantic Basin Tropical Storms and Hurricanes per Month from 1870 to 2006



Source: COP Appendix I; Empire 2022

Figure I-4 Tracks of Hurricanes between 1950 and 2019 within a 200-nm (370-kilometer) Radius around Lease Area OCS-A 0512



Source: Empire 2022

Figure I-5 Hurricane Track Lines in the Project Area

Table I-5 Hurricanes with Tracks Passing within 200 nm of the Lease Area between 1950 and 2019

| Storm Name | Year | Maximum Storm Category within 200 nm of Lease Area |
|------------|------|--|
| Arthur | 2014 | Category 1 Hurricane |
| Sandy | 2012 | Category 2 Hurricane |
| Irene | 2011 | Category 1 Hurricane |
| Earl | 2010 | Category 1 Hurricane |
| Gustav | 2002 | Category 1 Hurricane |
| Floyd | 1999 | Category 1 Hurricane |
| Bonnie | 1998 | Category 1 Hurricane |
| Edouard | 1996 | Category 1 Hurricane |
| Emily | 1993 | Category 3 Hurricane |
| Bob | 1991 | Category 3 Hurricane |
| Charley | 1986 | Category 1 Hurricane |
| Gloria | 1985 | Category 2 Hurricane |
| Belle | 1976 | Category 2 Hurricane |
| Gerda | 1969 | Category 3 Hurricane |
| Doria | 1967 | Category 1 Hurricane |

| Storm Name | Year | Maximum Storm Category within 200 nm of Lease Area |
|------------|------|--|
| Gladys | 1964 | Category 1 Hurricane |
| Alma | 1962 | Category 1 Hurricane |
| Esther | 1961 | Category 3 Hurricane |
| Donna | 1960 | Category 2 Hurricane |
| Daisy | 1958 | Category 2 Hurricane |
| Ione | 1955 | Category 1 Hurricane |
| Edna | 1954 | Category 3 Hurricane |
| Carol | 1954 | Category 3 Hurricane |
| Carol | 1953 | Category 1 Hurricane |
| Barbara | 1953 | Category 1 Hurricane |
| Dog | 1950 | Category 2 Hurricane |
| Able | 1950 | Category 2 Hurricane |

Source: NOAA 2021c

Notes: The Lease Area was represented by a point with the following coordinates: latitude 40.28, longitude -73.47. Hurricane categories are identified as 1 through 5 based on the Saffir-Simpson scale.

Hurricane Sandy, which occurred in 2012, provides an example of extreme storm conditions that have occurred in the region. In coastal New York, the storm surge created by Hurricane Sandy was more severe than a 100-year extreme event (Empire 2022). In Bergen Point West Reach on the northern side of Staten Island, tide gauges measured a storm surge of 9.56 feet (2.91 meters) and estimated inundation of 9.53 feet (2.9 meters). At the Battery on the southern tip of Manhattan, tide gauges measured storm surges of 9.40 feet (2.87 meters) and estimated inundation of 9.00 feet (2.7 meters) (Blake et al. 2013). Marine observations at NOAA Buoy No. 44025 and NOAA Buoy No. 44065 recorded maximum sustained wind speeds of 49 knots (56.4 mph; 25.2 m/s) and 48 knots (55.2 mph; 24.7 m/s), respectively (Blake et al. 2013).

I.1.5 Potential General Impacts of Offshore Wind Facilities on Meteorological Conditions

A known impact of offshore wind facilities on meteorological conditions is the wake effect. A WTG extracts energy from the free flow of wind, creating turbulence downstream of the WTG. The resulting “wake effect” is the aggregated influence of the WTGs for the entire wind farm on the available wind resource and the energy production potential of any facility downstream. Christiansen and Hasager (2005) observed offshore wake effects from existing facilities via satellite with synthetic aperture radar to last anywhere from 1.2 to 12.4 miles (2 to 20 kilometers) depending on ambient wind speed, direction, degree of atmospheric stability, and the number of turbines within a facility. During stable atmospheric conditions, these offshore wakes can be longer than 43.5 miles (70 kilometers).

Under certain conditions, offshore wind farms can also affect temperature and moisture downwind of the facilities. For example, from September 2016 to October 2017, a study using aircraft observations accompanied by mesoscale simulations examined the spatial dimensions of micrometeorological impacts from a wind energy facility in the North Sea (Siedersleben et al. 2018). Measurements and associated modeling indicated that measurable redistribution of moisture and heat were possible up to 62 miles (100 kilometers) downwind of the wind farm. However, this occurred only when (a) there was a strong, sustained temperature inversion at or below hub height and (b) wind speeds were greater than approximately 13.4 mph (6 m/s) (Siedersleben et al. 2018). Typically, air temperature will decrease with height above the sea surface in the lower atmosphere (i.e., the troposphere), and air will freely rise and disperse up to a “mixing height” (Holzworth 1972; Ramaswamy et al. 2006). A temperature inversion

occurs when a warmer overlying air mass causes temperatures to increase with height; a strong inversion inhibits the further rise of cooler surface air masses, thus limiting the mixing height (Ramaswamy et al. 2006). Therefore, the North Sea study suggests that rapidly spinning turbines with hub heights at or above a strong inversion may induce mixing between air masses that would otherwise remain separated, which can significantly affect temperature and humidity downwind of a wind farm.

The mixing height over open waters of the North Atlantic Ocean is typically greater than 1,640 feet (500 meters) AMSL, except over areas of upwelling, where the mixing height may be closer to the sea surface (Holzworth 1972; Fuhlbrügge et al. 2013). Table I-6 presents atmospheric mixing height data from the nearest measurement location to the Project area (Atlantic City, New Jersey). As shown in the table, the minimum average mixing height is 390 meters (1,279 feet), while the maximum average mixing height is 1,218 meters (3,996 feet).

Table I-6 Representative Seasonal Mixing Height Data

| Season | Data Hours Included¹ | Atlantic City, NJ Average Mixing Height (meters) |
|--------------------------------------|--|---|
| Winter (December, January, February) | Morning: No-Precipitation Hours | 624 |
| | Morning: All Hours | 617 |
| | Afternoon: No-Precipitation Hours | 774 |
| | Afternoon: All Hours | 390 |
| Spring (March, April, May) | Morning: No-Precipitation Hours | 545 |
| | Morning: All Hours | 640 |
| | Afternoon: No-Precipitation Hours | 1,196 |
| | Afternoon: All Hours | 499 |
| Summer (June, July, August) | Morning: No-Precipitation Hours | 511 |
| | Morning: All Hours | 566 |
| | Afternoon: No-Precipitation Hours | 1,218 |
| | Afternoon: All Hours | 695 |
| Fall (September, October, November) | Morning: No-Precipitation Hours | 484 |
| | Morning: All Hours | 649 |
| | Afternoon: No-Precipitation Hours | 988 |
| | Afternoon: All Hours | 476 |
| Annual Average | Morning: No-Precipitation Hours | 539 |
| | Morning: All Hours | 620 |
| | Afternoon: No-Precipitation Hours | 1,052 |
| | Afternoon: All Hours | 508 |

Source: USEPA 2021

¹ Missing values are not included.

Díaz et al. (2019) reported that measurements over the Atlantic Ocean between 1981 and 2010 indicated a trend of decreasing strength and thickness of inversion layers, accompanied by a general increase in the mixing height, which is correlated with an increase in sea surface temperatures. Therefore, WTG hub heights are expected to remain well below the typical mixing height and associated temperature inversions over the open ocean in the Mid-Atlantic region. As such, the redistribution of moisture and

heat due to rotor-induced vertical mixing, and any associated shifts to the microclimate, would be limited to the immediate vicinity of a wind facility in this region.

Additionally, mixing height affects air quality by acting as a lid on the height to which air pollutants can vertically disperse. Lower mixing heights allow less air volume for pollutant dispersion and lead to higher ground-level pollutant concentrations than do higher mixing heights.

I.2. Demographics, Employment, and Economics

Table I-7 Demographic Trends: 2000, 2010, 2020

| Jurisdiction | Population 2000 | Population 2010 | Population 2020 | % Change 2000–2020 | % Change 2010–2020 |
|----------------------------|-----------------|-----------------|-----------------|--------------------|--------------------|
| Village of Island Park | 4,732 | 4,675 | 4,928 | 4.1% | 5.4% |
| City of Albany | 99,658 | 97,856 | 99,224 | 3.7% | 1.4% |
| City of Long Beach | 35,462 | 33,275 | 35,029 | -1.2% | 5.3% |
| Town of Hempstead | 755,924 | 759,917 | 793,409 | 5.0% | 4.4% |
| Albany County | 294,565 | 304,204 | 314,848 | 6.9% | 3.5% |
| Kings County | 2,465,326 | 2,504,700 | 2,736,074 | 11.0% | 9.2% |
| Nassau County | 1,334,544 | 1,339,354 | 1,395,774 | 4.6% | 4.2% |
| Nueces County, Texas | 313,645 | 340,223 | 353,178 | 12.6% | 3.8% |
| San Patricio County, Texas | 67,138 | 64,804 | 68,755 | 2.4% | 6.1% |
| State of New York | 18,976,457 | 19,378,096 | 20,201,249 | 6.5% | 4.2% |

Source: U.S. Census Bureau 2000, 2020

Table I-8 Demographic Data: 2020

| Jurisdiction | Population | Population Density (persons per square mile) | Population 18 Years and Over | % of Population 18 Years and Over | % of Population Under 18 |
|----------------------------|------------|--|------------------------------|-----------------------------------|--------------------------|
| Village of Island Park | 4,928 | 11,081 | 3,983 | 80.8% | 19.2% |
| City of Albany | 99,224 | 4,636 | 81,589 | 82.2% | 17.8% |
| City of Long Beach | 35,029 | 15,796 | 29,730 | 84.9% | 15.1% |
| Town of Hempstead | 793,409 | 6,695 | 620,910 | 78.3% | 21.7% |
| Albany County | 314,848 | 602 | 255,875 | 81.3% | 18.7% |
| Kings County | 2,736,074 | 39,438 | 2,140,371 | 78.2% | 21.8% |
| Nassau County | 1,395,774 | 4,905 | 1,098,884 | 78.7% | 21.3% |
| Nueces County, Texas | 353,178 | 421 | 270,056 | 76.5% | 23.5% |
| San Patricio County, Texas | 68,755 | 99 | 51,377 | 74.7% | 25.3% |
| State of New York | 20,201,249 | 429 | 16,088,135 | 79.6% | 20.4% |

Source: U.S. Census Bureau 2020

Table I-9 Age Distribution

| Jurisdiction | 0–17 | 18–34 | 35–64 | 65+ | Median Age |
|----------------------------|-------------|--------------|--------------|------------|-------------------|
| Village of Island Park | 18.4% | 22.5% | 43.6% | 15.6% | 39 |
| City of Albany | 17.8% | 37.9% | 31.4% | 12.9% | 31 |
| City of Long Beach | 15.4% | 23.6% | 42.7% | 18.4% | 45 |
| Town of Hempstead | 22.1% | 21.5% | 40.1% | 16.3% | 40 |
| Albany County | 18.6% | 27.8% | 37.1% | 16.5% | 38 |
| Kings County | 23.0% | 26.6% | 36.9% | 13.6% | 35 |
| Nassau County | 21.7% | 20.4% | 40.5% | 17.5% | 42 |
| Nueces County, Texas | 24.8% | 24.6% | 36.6% | 14.1% | 36 |
| San Patricio County, Texas | 27.0% | 22.4% | 36.0% | 14.6% | 36 |
| State of New York | 21.0% | 24.0% | 39.0% | 16.2% | 39 |

Source: U.S. Census Bureau 2019a

Table I-10 Employment and Income Levels

| Jurisdiction | Per Capita Income | Total Employment | Unemployment Rate | Percent of Population Living Below Poverty Level |
|----------------------------|--------------------------|-------------------------|--------------------------|---|
| Village of Island Park | \$40,304 | 842 | 2.5% | 2.6% |
| City of Albany | \$29,174 | 124,954 | 7.1% | 22.9% |
| City of Long Beach | \$53,579 | 6,035 | 4.4% | 6.7% |
| Town of Hempstead | \$44,958 | 299,756 | 4.2% | 6.0% |
| Albany County | \$37,635 | 242,227 | 4.5% | 11.9% |
| Kings County | \$34,173 | 874,328 | 6.2% | 20.0% |
| Nassau County | \$51,422 | 647,469 | 3.9% | 5.6% |
| Nueces County, Texas | \$27,740 | 159,956 | 5.7% | 16.5% |
| San Patricio County, Texas | \$26,054 | 19,117 | 5.1% | 15.9% |
| State of New York | \$39,326 | 9,547,776 | 5.5% | 14.1% |

Sources: U.S. Census Bureau 2019a, 2019b

Table I-11 Housing Trends: 2020

| Jurisdiction | Housing Units | Occupied (%) | Vacant (%) |
|----------------------------|---------------|--------------|------------|
| Village of Island Park | 1,851 | 93.2% | 6.8% |
| City of Albany | 48,031 | 87.8% | 12.2% |
| City of Long Beach | 16,771 | 91.6% | 8.4% |
| Town of Hempstead | 260,524 | 96.1% | 3.9% |
| Albany County | 146,131 | 90.9% | 9.1% |
| Kings County | 1,077,654 | 93.7% | 6.3% |
| Nassau County | 476,732 | 95.5% | 4.5% |
| Nueces County, Texas | 151,255 | 86.4% | 13.6% |
| San Patricio County, Texas | 29,424 | 84.3% | 15.7% |
| State of New York | 8,488,066 | 90.9% | 9.1% |

Source: U.S. Census Bureau 2020

Table I-12 Housing Vacancy and Value

| Jurisdiction | Housing Units | Seasonal Vacant Units | Vacant Units (Non-Seasonal) | Non-Seasonal Vacancy Rate | Median Value (Owner-Occupied) | Median Monthly Rent (Renter-Occupied) |
|----------------------------|---------------|-----------------------|-----------------------------|---------------------------|-------------------------------|---------------------------------------|
| Village of Island Park | 1,693 | 0 | 108 | 6.4% | \$399,300 | \$1,689 |
| City of Albany | 48,813 | 153 | 7,405 | 15.2% | \$179,100 | \$969 |
| City of Long Beach | 15,969 | 920 | 1,023 | 6.8% | \$508,800 | \$1,874 |
| Town of Hempstead | 256,561 | 1,692 | 10,666 | 4.2% | \$455,700 | \$1,678 |
| Albany County | 141,553 | 1,896 | 13,117 | 9.4% | \$222,500 | \$1,022 |
| Kings County | 1,044,493 | 9,703 | 76,223 | 7.4% | \$706,000 | \$1,426 |
| Nassau County | 472,572 | 3,971 | 21,624 | 4.6% | \$493,500 | \$1,772 |
| Nueces County, Texas | 149,287 | 4,704 | 15,132 | 10.1% | \$138,700 | \$1,017 |
| San Patricio County, Texas | 28,226 | 1,035 | 4,293 | 15.2% | \$122,100 | \$975 |
| State of New York | 8,322,722 | 348,027 | 631,461 | 7.9% | \$313,700 | \$1,280 |

Source: U.S. Census Bureau 2019a

Table I-13 Employment of Residents, by Industry

| Industry | Village of Island Park | City of Albany | City of Long Beach | Town of Hempstead | Albany County | Kings County | Nassau County | Nueces County, Texas | San Patricio County, Texas | State of New York |
|--|------------------------|----------------|--------------------|-------------------|---------------|--------------|---------------|----------------------|----------------------------|-------------------|
| Agriculture, Forestry, Fishing and Hunting, and Mining | 0.0% | 0.3% | 0.2% | 0.1% | 0.3% | 0.1% | 0.2% | 2.6% | 5.7% | 0.6% |
| Construction | 11.4% | 3.2% | 6.6% | 6.1% | 4.3% | 5.1% | 5.7% | 10.4% | 13.8% | 5.7% |
| Manufacturing | 4.2% | 2.8% | 3.2% | 4.0% | 5.0% | 3.2% | 4.4% | 6.3% | 8.4% | 6.0% |
| Wholesale Trade | 2.5% | 1.1% | 3.0% | 3.0% | 1.8% | 2.2% | 3.3% | 2.2% | 2.7% | 2.3% |
| Retail Trade | 7.0% | 10.1% | 9.4% | 10.1% | 10.0% | 9.2% | 9.7% | 11.5% | 9.9% | 10.2% |
| Transportation and Warehousing, and Utilities | 5.6% | 2.8% | 4.6% | 6.1% | 3.4% | 6.7% | 5.6% | 4.7% | 5.9% | 5.5% |
| Information | 1.2% | 2.3% | 3.2% | 2.8% | 2.1% | 4.6% | 2.9% | 1.3% | 0.7% | 2.9% |
| Finance and Insurance, and Real Estate and Rental and Leasing | 12.7% | 5.1% | 11.6% | 9.4% | 7.7% | 7.4% | 10.5% | 5.8% | 5.3% | 8.0% |
| Professional, Scientific, and Management, and Administrative and Waste Management Services | 11.0% | 10.9% | 13.6% | 11.9% | 11.7% | 14.1% | 12.9% | 9.0% | 7.5% | 12.0% |
| Educational Services, and Health Care and Social Assistance | 19.3% | 32.7% | 29.2% | 29.8% | 27.6% | 28.4% | 29.0% | 22.8% | 23.0% | 27.9% |
| Arts, Entertainment, and Recreation, and Accommodation and Food Services | 15.1% | 11.9% | 7.5% | 7.1% | 9.1% | 10.1% | 7.0% | 11.8% | 8.7% | 9.5% |
| Other Services, Except Public Administration | 6.0% | 4.5% | 3.4% | 4.4% | 4.7% | 5.1% | 4.2% | 5.7% | 3.2% | 4.9% |
| Public Administration | 4.3% | 12.3% | 4.7% | 5.3% | 12.3% | 3.8% | 4.7% | 5.9% | 5.0% | 4.6% |

Source: U.S. Census Bureau 2019a

Table I-14 At-Place Employment, by Industry

| Industry | Village of Island Park | City of Albany | City of Long Beach | Town of Hempstead | Albany County | Kings County | Nassau County | Nueces County, Texas | San Patricio County, Texas | State of New York |
|--|------------------------|----------------|--------------------|-------------------|---------------|--------------|---------------|----------------------|----------------------------|-------------------|
| Agriculture, Forestry, Fishing and Hunting | 0.0% | 0.0% | 0.0% | 0.0% | 0.1% | 0.0% | 0.0% | 0.3% | 1.7% | 0.3% |
| Mining, Quarrying, and Oil and Gas Extraction | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 2.1% | 2.4% | 0.0% |
| Utilities | 0.0% | 0.1% | 0.0% | 0.8% | 0.2% | 0.5% | 0.6% | 0.9% | 1.2% | 0.4% |
| Construction | 12.5% | 2.2% | 5.4% | 4.9% | 3.2% | 3.9% | 4.9% | 11.1% | 31.2% | 4.1% |
| Manufacturing | 0.2% | 1.3% | 0.2% | 1.9% | 3.2% | 2.2% | 2.5% | 4.2% | 4.4% | 4.5% |
| Wholesale Trade | 1.1% | 1.4% | 3.8% | 2.3% | 2.8% | 2.8% | 3.8% | 3.3% | 1.2% | 3.4% |
| Retail Trade | 5.5% | 4.1% | 13.7% | 14.0% | 8.2% | 8.8% | 12.0% | 9.8% | 10.6% | 9.3% |
| Transportation and Warehousing | 0.1% | 2.2% | 0.9% | 3.4% | 3.0% | 8.8% | 2.7% | 3.0% | 1.8% | 3.6% |
| Information | 3.6% | 1.3% | 1.5% | 1.1% | 2.1% | 1.4% | 1.4% | 0.8% | 0.8% | 3.4% |
| Finance and Insurance | 9.4% | 5.6% | 5.3% | 3.7% | 5.7% | 1.9% | 4.4% | 2.6% | 1.3% | 5.4% |
| Real Estate and Rental and Leasing | 1.0% | 0.7% | 3.3% | 1.4% | 1.4% | 2.3% | 1.6% | 1.8% | 0.7% | 2.2% |
| Professional, Scientific, and Technical Services | 1.3% | 5.1% | 4.1% | 5.9% | 6.4% | 3.0% | 6.4% | 5.3% | 2.9% | 7.1% |
| Management of Companies and Enterprises | 0.0% | 1.8% | 0.1% | 0.7% | 1.7% | 0.3% | 1.0% | 0.4% | 0.4% | 1.6% |
| Administration & Support, Waste Management and Remediation | 1.4% | 3.3% | 1.8% | 5.6% | 5.1% | 4.3% | 5.1% | 5.2% | 2.0% | 5.5% |
| Educational Services | 15.6% | 6.9% | 7.4% | 14.2% | 8.3% | 11.6% | 11.4% | 10.2% | 14.1% | 11.0% |
| Health Care and Social Assistance | 22.6% | 19.3% | 18.1% | 18.7% | 16.2% | 31.4% | 24.1% | 20.8% | 5.7% | 18.3% |
| Arts, Entertainment, and Recreation | 1.3% | 0.5% | 0.8% | 2.2% | 0.9% | 1.2% | 1.9% | 1.6% | 1.2% | 1.9% |
| Accommodation and Food Services | 10.6% | 3.8% | 16.1% | 8.4% | 6.1% | 6.1% | 7.6% | 11.2% | 11.3% | 8.0% |
| Other Services (excluding Public Administration) | 7.7% | 2.4% | 5.4% | 5.0% | 3.8% | 3.4% | 4.8% | 2.7% | 1.6% | 3.9% |
| Public Administration | 6.3% | 37.9% | 12.1% | 6.1% | 21.7% | 6.0% | 3.7% | 2.5% | 3.7% | 6.0% |

Source: U.S. Census Bureau 2019b

Table I-15 Number of Establishments, By Industry: 2021

| Industry | Village of Island Park | City of Albany | City of Long Beach | Town of Hempstead | Albany County | Kings County | Nassau County | Nueces County, Texas | San Patricio County, Texas | State of New York |
|--|------------------------|----------------|--------------------|-------------------|---------------|---------------|---------------|----------------------|----------------------------|-------------------|
| Agriculture, Forestry, Fishing and Hunting | 0 | 7 | 2 | 23 | 36 | 83 | 65 | 57 | 18 | 2,983 |
| Mining, Quarrying, and Oil and Gas Extraction | 0 | 3 | 0 | 15 | 10 | 24 | 28 | 73 | 12 | 412 |
| Utilities | 0 | 4 | 0 | 23 | 22 | 33 | 67 | 27 | 6 | 839 |
| Construction | 11 | 193 | 54 | 1,909 | 804 | 3,813 | 3,876 | 933 | 131 | 43,963 |
| Manufacturing | 4 | 83 | 15 | 712 | 338 | 2,089 | 1,591 | 336 | 43 | 21,150 |
| Wholesale Trade | 5 | 104 | 13 | 865 | 422 | 2,290 | 1,813 | 462 | 43 | 21,469 |
| Retail Trade | 14 | 424 | 102 | 4,090 | 1,705 | 11,578 | 8,077 | 1,914 | 290 | 99,043 |
| Transportation and Warehousing | 4 | 67 | 17 | 625 | 243 | 1,346 | 1,052 | 262 | 33 | 13,294 |
| Information | 4 | 135 | 19 | 602 | 328 | 1,662 | 1,251 | 230 | 29 | 17,435 |
| Finance and Insurance | 7 | 190 | 50 | 1,445 | 679 | 2,056 | 3,118 | 744 | 96 | 31,484 |
| Real Estate and Rental and Leasing | 7 | 171 | 77 | 1,126 | 608 | 3,891 | 2,547 | 794 | 134 | 35,067 |
| Professional, Scientific, and Technical Services | 5 | 572 | 76 | 3,173 | 1,463 | 6,086 | 6,662 | 1,067 | 111 | 69,799 |
| Management of Companies and Enterprises | 0 | 7 | 2 | 91 | 15 | 301 | 198 | 50 | 4 | 1,838 |
| Administration & Support, Waste Management and Remediation | 4 | 112 | 24 | 1,181 | 430 | 2,291 | 2,308 | 437 | 30 | 24,670 |
| Educational Services | 3 | 162 | 22 | 775 | 378 | 1,866 | 1,478 | 325 | 63 | 18,637 |
| Health Care and Social Assistance | 8 | 497 | 93 | 2,424 | 1,222 | 6,128 | 5,166 | 1,023 | 120 | 59,382 |
| Arts, Entertainment, and Recreation | 6 | 107 | 25 | 635 | 298 | 1,228 | 1,329 | 270 | 31 | 16,173 |
| Accommodation and Food Services | 11 | 364 | 111 | 2,330 | 1,003 | 7,093 | 4,288 | 1,131 | 205 | 58,735 |
| Other Services (excluding Public Administration) | 23 | 693 | 106 | 3,608 | 1,866 | 9,226 | 6,726 | 1,485 | 256 | 86,344 |
| Public Administration | 5 | 344 | 15 | 383 | 661 | 372 | 683 | 321 | 101 | 18,436 |
| Unclassified | 5 | 342 | 97 | 2,390 | 802 | 11,815 | 5,236 | 890 | 89 | 67,253 |
| Total (All Sectors) | 126 | 4,581 | 920 | 28,425 | 13,333 | 75,271 | 57,559 | 12,831 | 1,845 | 708,406 |

Source: ArcGIS Business Analyst 2021

Table I-16 Annual Payroll by Industry (\$1,000): 2020

| Industry | Albany County | Kings County | Nassau County | New York State |
|--|----------------------|---------------------|----------------------|-----------------------|
| Agriculture, Forestry, Fishing and Hunting | \$10,653 | \$14,043 | \$6,552 | \$1,062,904 |
| Mining, Quarrying, and Oil and Gas Extraction | \$39,693 | \$0 | \$0 | \$322,656 |
| Utilities | \$69,215 | \$409,411 | \$469,906 | \$4,808,912 |
| Construction | \$637,392 | \$1,973,121 | \$2,418,144 | \$28,305,328 |
| Manufacturing | \$696,731 | \$849,682 | \$1,144,903 | \$29,188,387 |
| Wholesale Trade | \$520,212 | \$1,235,743 | \$2,054,761 | \$27,814,772 |
| Retail Trade | \$700,201 | \$2,893,401 | \$2,779,800 | \$33,464,878 |
| Transportation and Warehousing | \$284,904 | \$700,358 | \$972,615 | \$13,081,012 |
| Information | \$430,924 | \$1,169,921 | \$793,223 | \$41,332,226 |
| Finance and Insurance | \$1,286,324 | \$1,567,844 | \$3,035,636 | \$129,471,739 |
| Real Estate and Rental and Leasing | \$187,430 | \$961,500 | \$768,862 | \$15,449,702 |
| Professional, Scientific, and Technical Services | \$1,460,915 | \$1,986,058 | \$3,273,562 | \$85,762,955 |
| Management of Companies and Enterprises | \$310,587 | \$162,906 | \$763,359 | \$21,639,905 |
| Administration & Support, Waste Management and Remediation | \$446,112 | \$1,290,984 | \$1,602,593 | \$28,518,583 |
| Educational Services | \$603,361 | \$1,465,788 | \$936,646 | \$23,113,579 |
| Health Care and Social Assistance | \$1,810,463 | \$10,853,850 | \$9,491,509 | \$87,278,334 |
| Arts, Entertainment, and Recreation | \$32,836 | \$497,139 | \$428,020 | \$7,776,281 |
| Accommodation and Food Services | \$238,288 | \$1,125,952 | \$1,051,072 | \$15,647,467 |
| Other Services (excluding Public Administration) | \$366,789 | \$818,662 | \$943,867 | \$15,048,420 |
| Unclassified | \$9,916 | \$190,649 | \$126,294 | \$1,783,279 |
| Total (All Private) | \$10,142,947 | \$30,168,669 | \$33,061,428 | \$610,871,320 |

Source: New York State Department of Labor 2020

Note: Dollar value is in \$1000s.

Table I-17 Ocean Economy Data

| County | Ocean Economy GDP, All Ocean Sectors | Ocean Economy GDP, Tourism and Recreation Sector | Ocean Economy GDP, Living Resources Sector | Total County GDP (Coastal Economy, Employment Data) Total, All Industries | Ocean Economy GDP, as Percent of Total County GDP (%) |
|--------------|--------------------------------------|--|--|---|---|
| Albany | \$32,689,00 | \$0 | Suppressed | \$34,550,146,168 | 0.1% |
| Kings | \$2,052,466,000 | \$1,802,669,000 | \$167,428,000 | \$95,011,253,174 | 2.2% |
| Nassau | \$1,065,093,000 | \$794,144,000 | \$55,065,000 | \$99,424,936,812 | 1.1% |
| Nueces | \$1,529,501,000 | \$574,591,000 | Suppressed | \$20,523,787,223 | 7.5% |
| San Patricio | \$588,635,000 | \$60,386,000 | \$0.00 | \$2,383,411,637 | 24.7% |

Source: NOAA 2018

Table I-18 Ocean Economy Employment¹

| County | Marine Construction | Living Resources | Offshore Mineral Extraction | Tourism and Recreation | Marine Transportation | Total, All Sectors |
|--------------|---------------------|------------------|-----------------------------|------------------------|-----------------------|--------------------|
| Albany | Suppressed | Suppressed | Suppressed | 0 | 594 | 594 |
| Kings | Suppressed | 1412 | Suppressed | 33,228 | 1,517 | 36,157 |
| Nassau | 142 | 493 | 43 | 17,392 | 1,286 | 19,356 |
| Nueces | Suppressed | Suppressed | 2,453 | 13,488 | 558 | 17,507 |
| San Patricio | Suppressed | 0 | 449 | 1,766 | Suppressed | 4,607 |

Source: NOAA 2018

¹ Data for ship and boat building are suppressed for all counties, so are not included in the table.

Table I-19 Race and Ethnicity: 2020¹

| Jurisdiction | Total Population | White (%) | Black (%) | Asian (%) | Other (%) | Hispanic (%) | Total Minority % |
|----------------------------|------------------|-----------|-----------|-----------|-----------|--------------|------------------|
| Village of Island Park | 4,928 | 55.4% | 3.0% | 4.1% | 4.1% | 33.4% | 44.6% |
| City of Albany | 99,224 | 44.7% | 29.5% | 8.0% | 6.2% | 11.6% | 55.3% |
| City of Long Beach | 35,029 | 72.9% | 5.2% | 3.2% | 3.5% | 15.3% | 27.1% |
| Town of Hempstead | 793,409 | 50.7% | 15.9% | 7.5% | 3.8% | 22.0% | 49.3% |
| Albany County | 314,848 | 67.0% | 12.9% | 7.7% | 5.6% | 6.9% | 33.0% |
| Kings County | 2,736,074 | 35.4% | 26.7% | 13.6% | 5.4% | 18.9% | 64.6% |
| Nassau County | 1,395,774 | 55.8% | 10.6% | 11.7% | 3.5% | 18.4% | 44.2% |
| Nueces County, Texas | 353,178 | 30.1% | 3.6% | 2.2% | 2.7% | 61.5% | 69.9% |
| San Patricio County, Texas | 68,755 | 38.7% | 1.4% | 1.2% | 3.0% | 55.6% | 61.3% |
| State of New York | 20,201,249 | 52.5% | 13.7% | 9.5% | 4.9% | 19.5% | 47.5% |

Source: U.S. Census Bureau 2020

¹ The percentages of White, Black, Asian, and Other categories include Non-Hispanics only.

Table I-20 Educational Attainment for Population 25 Years and Over¹

| Highest Education Attainment | Less than High School | High School or GED | Some College | Bachelor's Degree | Advanced Degree |
|------------------------------|-----------------------|--------------------|--------------|-------------------|-----------------|
| Village of Island Park | 7.7% | 41.6% | 27.4% | 9.9% | 13.3% |
| City of Albany | 12.2% | 23.0% | 25.3% | 19.6% | 20.0% |
| City of Long Beach | 5.2% | 22.8% | 23.4% | 25.7% | 23.0% |
| Town of Hempstead | 10.1% | 24.4% | 24.4% | 23.1% | 17.9% |
| Albany County | 7.9% | 23.0% | 27.4% | 21.4% | 20.4% |
| Kings County | 17.6% | 25.7% | 19.2% | 22.5% | 15.0% |
| Nassau County | 8.6% | 22.7% | 22.8% | 25.3% | 20.7% |
| Nueces County, Texas | 17.2% | 29.3% | 31.7% | 14.2% | 7.6% |
| San Patricio County, Texas | 20.1% | 32.7% | 31.6% | 11.2% | 4.4% |
| State of New York | 13.2% | 26.0% | 24.3% | 20.5% | 16.0% |

Source: U.S. Census Bureau 2019a

¹ The percentages may not sum to 100 due to rounding.

Table I-21 Economic Value of the Tourism and Recreation Sector

| Affected Area | Establishments | Employment | Wages (millions) | GDP (millions) |
|----------------------------|----------------|----------------|-------------------|-------------------|
| State of New York | 22,270 | 359,194 | \$12,628.4 | \$29,039.5 |
| Albany County | N/A | N/A | N/A | N/A |
| Kings County | 3,759 | 33,229 | \$899.2 | \$1,802.7 |
| Nassau County | 1,396 | 17,392 | \$421.9 | \$794.1 |
| New York County | 9,621 | 217,305 | \$9,207.3 | \$22,187.7 |
| Queens County | 1,299 | 11,581 | \$277.4 | \$510.0 |
| Suffolk County | 2,741 | 36,385 | \$921.1 | \$1,916.7 |
| State of New Jersey | 7,949 | 96,261 | \$2,201.6 | \$4,299.3 |
| Monmouth County | 1,324 | 17,767 | \$369.0 | \$704.7 |
| Ocean County | 1,155 | 14,049 | \$288.2 | \$569.5 |

Source: National Ocean Economics Program 2018

N/A = not available

Table I-22 Empire's Projected Jobs and Economic Impacts during Construction

| Economic Impact | Empire Wind 1 | Empire Wind 2 | Total | |
|---|---------------|---------------|---------|---------|
| Jobs (FTE) ¹ | Direct | 180 | 269 | 449 |
| | Indirect | 60 | 96 | 156 |
| | Induced | 92 | 141 | 233 |
| | Total | 332 | 506 | 838 |
| Gross State Product (Value added) (in millions of 2020 dollars) | Direct | \$152.8 | \$273.9 | \$426.7 |
| | Indirect | \$54.6 | \$99.9 | \$154.5 |
| | Induced | \$75.6 | \$132.2 | \$207.8 |
| | Total | \$283.0 | \$506.0 | \$789.0 |

| Economic Impact | | Empire Wind 1 | Empire Wind 2 | Total |
|---|----------|---------------|---------------|---------|
| Personal Income (in millions of 2020 dollars) | Direct | \$114.1 | \$197.9 | \$312.0 |
| | Indirect | \$37.8 | \$67.4 | \$105.2 |
| | Induced | \$43.0 | \$75.2 | \$118.2 |
| | Total | \$194.9 | \$340.5 | \$535.4 |

Source: COP Volume 1, Appendix O; Empire 2022

¹ One FTE job is the equivalent of one person working full time for 1 year (2,080 hours). Therefore, two half-time employees would equal one FTE. Only those jobs that Empire would perform in the designated area are included.

Table I-23 Projected Tax Revenues during Construction and Operations and Maintenance

| Taxes | Construction | | Operations and Maintenance | |
|-----------------------|---------------|---------------|----------------------------|---------------|
| | Empire Wind 1 | Empire Wind 2 | Empire Wind 1 | Empire Wind 2 |
| State and Local Taxes | \$24.9 | \$42.6 | \$48.8 | \$74.1 |
| Federal Taxes | \$38.4 | \$67.1 | \$63.0 | \$95.7 |
| Total Taxes | \$63.4 | \$109.7 | \$111.8 | \$169.8 |

Source: COP Volume 1, Appendix O; Empire 2022

Table I-24 Empire's Projected Jobs and Economic Impacts during Operations and Maintenance

| Economic Impact | | Empire Wind 1 | Empire Wind 2 | Total |
|---|------------------|---------------|---------------|-----------|
| Jobs (FTE) ¹ | Direct | 53 | 80 | 133 |
| | Indirect/Induced | 67 | 102 | 169 |
| | Total | 120 | 182 | 302 |
| Gross State Product (Value added) (in millions of 2020 dollars) | Direct | \$215.8 | \$302.7 | \$518.5 |
| | Indirect | \$158.4 | \$140.1 | \$298.5 |
| | Induced | \$119.6 | \$151.7 | \$271.3 |
| | Total | \$493.8 | \$594.5 | \$1,088.3 |
| Personal Income (in millions of 2020 dollars) | Direct | \$137.9 | \$208.8 | \$346.7 |
| | Indirect | \$103.4 | \$96.8 | \$200.2 |
| | Induced | \$68.0 | \$86.3 | \$154.3 |
| | Total | \$309.3 | \$391.9 | \$701.2 |

Source: COP Volume 1, Appendix O; Empire 2022

¹ One FTE job is the equivalent of one person working full time for 1 year (2,080 hours). Therefore, two half-time employees would equal one FTE. Only those jobs that Empire would perform in the designated area are included.

I.3. Wetlands

Table I-25 NYSDEC-mapped Aquatic Features

| Route Feature | NYSDEC Classification | Acres within Footprint/Cable Corridor |
|-----------------|---|---------------------------------------|
| EW 2 Landfall A | No NYSDEC-mapped features in footprint ¹ | -- |
| EW 2 Landfall B | No NYSDEC-mapped features in footprint ¹ | -- |

| Route Feature | NYSDEC Classification | Acres within Footprint/Cable Corridor |
|---------------------------|---|---------------------------------------|
| EW 2 Landfall C | No NYSDEC-mapped features in footprint ¹ | -- |
| EW 2 Landfall E | No NYSDEC-mapped features in footprint ¹ | -- |
| EW 2 Route LB-A | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route LB-B | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route LB-C | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route LB-D | Littoral Zone | 0.04 |
| EW 2 Route LB-E | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route LB-Variant | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route LB-F | No NYSDEC-mapped features in cable corridor | -- |
| EW Route 2 LB-G | No NYSDEC-mapped features in cable corridor | -- |
| EW Route 2 LB-H | No NYSDEC-mapped features in cable corridor | |
| Reynolds Channel Crossing | Littoral Zone | 8.63 |
| | Coastal Shoals, Bars, and Mudflats | 0.21 |
| EW 2 Route IP-A | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route IP-B | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Route IP-C | Littoral Zone | 1.07 |
| | Coastal Shoals, Bars, and Mudflats | 0.84 |
| | Intertidal Marsh | 0.10 |
| EW 2 Route IP-D | Littoral Zone | 0.37 |
| EW 2 Route IP-E | Littoral Zone | 0.47 |
| | Coastal Shoals, Bars, and Mudflats | 0.51 |
| | Intertidal Marsh | 0.04 |
| EW 2 Route IP-F | Littoral Zone | 2.74 |
| | Coastal Shoals, Bars, and Mudflats | 1.08 |
| | Intertidal Marsh | 1.50 |
| EW 2 Route IP-G | Littoral Zone | 3.27 |
| | Coastal Shoals, Bars, and Mudflats | 3.99 |
| | Intertidal Marsh | 2.44 |
| | High Marsh | 0.16 |
| EW 2 Route IP-H | No NYSDEC-mapped features in cable corridor | -- |
| EW 2 Onshore Substation A | No NYSDEC-mapped features in footprint | -- |
| EW 2 Onshore Substation C | No NYSDEC-mapped features ² | -- |

Source: COP Volume 2, Table 5.2-3; Empire 2022

Note: The table presents wetland areas within the cable corridor that could be susceptible to potential impacts and not necessarily the area of wetland that would actually be affected during construction and operations. For example, segment IP-C could cross Reynolds Channel via open trench or trenchless (e.g., HDD) methods, which would have very different impacts on wetlands.

¹ The four landfalls have “Adjacent Areas” mapped within the footprint, which are land areas that are adjacent to any of the NYSDEC tidal wetland zone classifications. Adjacent Areas are generally not inundated by tidal waters and extend 300 feet landward of the most landward tidal wetland boundary or to an elevation of 10 feet (refer to New York State regulations Part 661, Tidal Wetlands Land Use Regulation).

² Based on the *EW 2 Onshore Substation C Characterization Report* (Tetra Tech 2021), NYSDEC mapping indicates that Reynolds Channel extends into the Onshore Substation C site by a maximum of approximately 40 feet (12 meters); however, a review of aerial imagery indicates that historic alterations to the shoreline, including bulkheading, have resulted in a more artificial and linear bank than portrayed by NYSDEC-mapped boundaries. The result of these shoreline alterations is that the current bank of Reynolds Channel appears to approximately align with the boundary of the EW 2 Onshore Substation C site.

I.4. Commercial and For-Hire Recreational Fisheries

Table I-26 Number of Trips by Commercial Fishing Vessels in the EW 1 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Summer Flounder/Scup/Black Sea Bass | 1,676 | 1,815 | 1,808 | 1,218 | 1,197 | 1,191 | 1,199 | 1,101 | 1,093 | 753 | 1,305 |
| Mackerel/Squid/Butterfish | 893 | 1,065 | 1,300 | 618 | 738 | 671 | 673 | 781 | 723 | 493 | 796 |
| Monkfish | 882 | 925 | 831 | 660 | 858 | 811 | 651 | 602 | 532 | 451 | 720 |
| No Federal FMP | 737 | 854 | 760 | 773 | 635 | 661 | 597 | 664 | 592 | 462 | 674 |
| Skates | 611 | 783 | 806 | 600 | 620 | 615 | 566 | 636 | 589 | 386 | 621 |
| Sea Scallop | 705 | 1,069 | 630 | 412 | 642 | 473 | 605 | 164 | 101 | 87 | 489 |
| American Lobster | 655 | 479 | 588 | 576 | 509 | 412 | 405 | 355 | 295 | 231 | 451 |
| Small-Mesh Multispecies | 389 | 427 | 412 | 536 | 443 | 327 | 220 | 360 | 366 | 365 | 385 |
| Bluefish | 405 | 597 | 571 | 273 | 341 | 332 | 272 | 368 | 213 | 205 | 358 |
| Spiny Dogfish | 201 | 307 | 174 | 125 | 117 | 153 | 150 | 192 | 129 | 74 | 162 |
| Jonah Crab | 164 | 124 | 172 | 197 | 159 | 190 | 159 | 142 | 117 | 102 | 153 |
| Atlantic Herring | 145 | 94 | 58 | 38 | 30 | 39 | 23 | 20 | 64 | 38 | 55 |
| Northeast Multispecies | 69 | 125 | 84 | 105 | 68 | 16 | 14 | 9 | 17 | 10 | 52 |
| Surfclam/Ocean Quahog | 65 | 20 | 0 | 36 | 0 | 18 | 90 | 93 | 0 | 34 | 36 |
| Golden and Blueline Tilefish | 10 | 13 | 17 | 18 | 15 | 30 | 17 | 17 | 8 | 15 | 16 |
| Highly Migratory Species | 3 | 5 | 8 | 4 | 7 | 3 | 12 | 10 | 19 | 6 | 8 |
| All FMPs | 7,610 | 8,702 | 8,219 | 6,189 | 6,379 | 5,942 | 5,653 | 5,514 | 4,858 | 3,712 | 6,278 |

Source: NMFS 2022b

Table I-27 Number of Commercial Fishing Vessels that Fished in the EW 1 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------|------|------|------|------|------|------|------|------|------|------|----------------|
| Monkfish | 215 | 213 | 191 | 117 | 204 | 169 | 141 | 110 | 115 | 98 | 157 |
| Sea Scallop | 231 | 251 | 166 | 123 | 226 | 146 | 168 | 89 | 55 | 53 | 151 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|--------------|--------------|--------------|------------|--------------|------------|------------|------------|------------|------------|----------------|
| Summer Flounder/Scup/Black Sea Bass | 117 | 143 | 161 | 118 | 136 | 145 | 131 | 126 | 127 | 111 | 132 |
| Mackerel/Squid/Butterfish | 101 | 101 | 124 | 87 | 102 | 121 | 92 | 106 | 107 | 96 | 104 |
| No Federal FMP | 90 | 99 | 99 | 93 | 96 | 103 | 92 | 92 | 96 | 69 | 93 |
| Bluefish | 70 | 90 | 112 | 73 | 86 | 90 | 66 | 86 | 54 | 54 | 78 |
| Skates | 66 | 77 | 70 | 45 | 59 | 62 | 53 | 69 | 73 | 51 | 63 |
| Small-Mesh Multispecies | 51 | 47 | 56 | 59 | 67 | 50 | 41 | 61 | 72 | 69 | 57 |
| American Lobster | 45 | 44 | 52 | 38 | 39 | 28 | 28 | 32 | 33 | 27 | 37 |
| Spiny Dogfish | 29 | 38 | 30 | 18 | 19 | 24 | 17 | 23 | 20 | 14 | 23 |
| Northeast Multispecies | 20 | 21 | 27 | 27 | 28 | 9 | 9 | 7 | 9 | 4 | 16 |
| Atlantic Herring | 31 | 18 | 17 | 12 | 10 | 14 | 11 | 12 | 14 | 12 | 15 |
| Jonah Crab | 10 | 15 | 14 | 12 | 12 | 14 | 11 | 13 | 14 | 10 | 13 |
| Golden and Blueline Tilefish | 9 | 10 | 11 | 11 | 8 | 10 | 13 | 13 | 8 | 6 | 10 |
| Surfclam/Ocean Quahog | 11 | 10 | 0 | 5 | 0 | 7 | 12 | 9 | 0 | 12 | 7 |
| Highly Migratory Species | 3 | 5 | 7 | 4 | 6 | 3 | 4 | 5 | 11 | 6 | 5 |
| All FMPs | 1,099 | 1,182 | 1,137 | 842 | 1,098 | 995 | 889 | 853 | 808 | 692 | 960 |

Source: NMFS 2022b

Table I-28 Number of Trips by Commercial Fishing Vessels in the EW 2 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|------|-------|-------|------|-------|------|-------|------|------|------|----------------|
| Summer Flounder/Scup/Black Sea Bass | 857 | 978 | 1,022 | 683 | 807 | 785 | 858 | 755 | 852 | 579 | 818 |
| Sea Scallop | 776 | 1,200 | 891 | 714 | 1,047 | 812 | 1,229 | 465 | 318 | 271 | 772 |
| Monkfish | 777 | 808 | 771 | 704 | 900 | 876 | 833 | 614 | 645 | 477 | 741 |
| Mackerel/Squid/Butterfish | 556 | 614 | 826 | 414 | 541 | 522 | 435 | 505 | 657 | 391 | 546 |
| No Federal FMP | 337 | 378 | 400 | 482 | 391 | 410 | 344 | 404 | 390 | 298 | 383 |
| Skates | 333 | 451 | 346 | 267 | 354 | 338 | 332 | 347 | 390 | 214 | 337 |
| Bluefish | 271 | 381 | 431 | 249 | 325 | 326 | 275 | 390 | 228 | 214 | 309 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Small-Mesh Multispecies | 168 | 176 | 206 | 276 | 234 | 205 | 178 | 221 | 329 | 268 | 226 |
| American Lobster | 165 | 151 | 205 | 124 | 176 | 158 | 132 | 125 | 118 | 135 | 149 |
| Spiny Dogfish | 100 | 154 | 100 | 49 | 54 | 53 | 28 | 42 | 67 | 15 | 66 |
| Surfclam/Ocean Quahog | 43 | 26 | 0 | 0 | 53 | 54 | 144 | 148 | 0 | 82 | 55 |
| Jonah Crab | 20 | 19 | 6 | 19 | 34 | 66 | 31 | 49 | 44 | 68 | 36 |
| Atlantic Herring | 57 | 30 | 29 | 27 | 12 | 33 | 24 | 23 | 67 | 42 | 34 |
| Northeast Multispecies | 36 | 74 | 60 | 46 | 44 | 17 | 18 | 8 | 16 | 7 | 33 |
| Golden and Blueline Tilefish | 22 | 30 | 27 | 36 | 33 | 46 | 37 | 33 | 24 | 24 | 31 |
| Highly Migratory Species | 3 | 7 | 6 | 4 | 8 | 4 | 16 | 11 | 17 | 10 | 9 |
| All FMPs | 4,521 | 5,477 | 5,326 | 4,094 | 5,013 | 4,705 | 4,914 | 4,140 | 4,162 | 3,095 | 4,545 |

Source: NMFS 2022b

Table I-29 Number of Commercial Fishing Vessels that Fished in the EW 2 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| Sea Scallop | 267 | 286 | 217 | 155 | 272 | 182 | 251 | 188 | 91 | 93 | 200 |
| Monkfish | 246 | 236 | 220 | 161 | 251 | 202 | 203 | 155 | 151 | 129 | 195 |
| Summer Flounder/Scup/Black Sea Bass | 137 | 145 | 167 | 132 | 160 | 161 | 167 | 151 | 144 | 127 | 149 |
| Mackerel/Squid/Butterfish | 108 | 97 | 129 | 108 | 110 | 129 | 119 | 110 | 119 | 102 | 113 |
| No Federal FMP | 94 | 83 | 94 | 99 | 93 | 107 | 100 | 93 | 97 | 78 | 94 |
| Bluefish | 72 | 86 | 109 | 84 | 91 | 98 | 87 | 89 | 56 | 58 | 83 |
| Skates | 75 | 72 | 65 | 57 | 64 | 65 | 56 | 73 | 83 | 55 | 67 |
| Small-Mesh Multispecies | 59 | 45 | 51 | 72 | 67 | 61 | 66 | 68 | 74 | 66 | 63 |
| American Lobster | 46 | 37 | 47 | 39 | 44 | 23 | 23 | 27 | 29 | 29 | 34 |
| Spiny Dogfish | 28 | 31 | 26 | 16 | 13 | 20 | 12 | 15 | 23 | 9 | 19 |
| Golden and Blueline Tilefish | 16 | 18 | 13 | 22 | 15 | 18 | 24 | 23 | 17 | 11 | 18 |
| Northeast Multispecies | 21 | 22 | 28 | 30 | 26 | 11 | 11 | 7 | 9 | 6 | 17 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|--------------------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|------------|------------|----------------|
| Atlantic Herring | 25 | 15 | 14 | 9 | 9 | 13 | 9 | 14 | 14 | 11 | 13 |
| Jonah Crab | 7 | 12 | 6 | 10 | 11 | 12 | 7 | 11 | 8 | 8 | 9 |
| Surfclam/Ocean Quahog | 12 | 10 | 0 | 0 | 12 | 11 | 15 | 11 | 0 | 14 | 9 |
| Highly Migratory Species | 3 | 7 | 5 | 4 | 7 | 4 | 7 | 6 | 10 | 9 | 6 |
| All FMPs | 1,216 | 1,202 | 1,191 | 998 | 1,245 | 1,117 | 1,157 | 1,041 | 925 | 805 | 1,090 |

Source: NMFS 2022b

Table I-30 Number of Trips by Commercial Fishing Vessels in the Combined EW 1 and EW 2 WEAs by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|
| Summer Flounder/Scup/Black Sea Bass | 2,533 | 2,793 | 2,830 | 1,901 | 2,004 | 1,976 | 2,057 | 1,856 | 1,945 | 1,332 | 2,123 |
| Monkfish | 1,659 | 1,733 | 1,602 | 1,364 | 1,758 | 1,687 | 1,484 | 1,216 | 1,177 | 928 | 1,461 |
| Mackerel/Squid/Butterfish | 1,449 | 1,679 | 2,126 | 1,032 | 1,279 | 1,193 | 1,108 | 1,286 | 1,380 | 884 | 1,342 |
| Sea Scallop | 1,481 | 2,269 | 1,521 | 1,126 | 1,689 | 1,285 | 1,834 | 629 | 419 | 358 | 1,261 |
| No Federal FMP | 1,074 | 1,232 | 1,160 | 1,255 | 1,026 | 1,071 | 941 | 1,068 | 982 | 760 | 1,057 |
| Skates | 944 | 1,234 | 1,152 | 867 | 974 | 953 | 898 | 983 | 979 | 600 | 958 |
| Bluefish | 676 | 978 | 1,002 | 522 | 666 | 658 | 547 | 758 | 441 | 419 | 667 |
| Small-Mesh Multispecies | 557 | 603 | 618 | 812 | 677 | 532 | 398 | 581 | 695 | 633 | 611 |
| American Lobster | 820 | 630 | 793 | 700 | 685 | 570 | 537 | 480 | 413 | 366 | 599 |
| Spiny Dogfish | 301 | 461 | 274 | 174 | 171 | 206 | 178 | 234 | 196 | 89 | 228 |
| Jonah Crab | 184 | 143 | 178 | 216 | 193 | 256 | 190 | 191 | 161 | 170 | 188 |
| Surfclam/Ocean Quahog | 108 | 46 | 0 | 36 | 53 | 72 | 234 | 241 | 0 | 116 | 91 |
| Atlantic Herring | 202 | 124 | 87 | 65 | 42 | 72 | 47 | 43 | 131 | 80 | 89 |
| Northeast Multispecies | 105 | 199 | 144 | 151 | 112 | 33 | 32 | 17 | 33 | 17 | 84 |
| Golden and Blueline Tilefish | 32 | 43 | 44 | 54 | 48 | 76 | 54 | 50 | 32 | 39 | 47 |
| Highly Migratory Species | 6 | 12 | 14 | 8 | 15 | 7 | 28 | 21 | 36 | 16 | 16 |
| All FMPs | 12,131 | 14,179 | 13,545 | 10,283 | 11,392 | 10,647 | 10,567 | 9,654 | 9,020 | 6,807 | 10,823 |

Source: NMFS 2022b

Table I-31 Number of Commercial Fishing Vessels that Fished in the Combined EW 1 and EW 2 WEAs by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Monkfish | 461 | 449 | 411 | 278 | 455 | 371 | 344 | 265 | 266 | 227 | 353 |
| Sea Scallop | 498 | 537 | 383 | 278 | 498 | 328 | 419 | 277 | 146 | 146 | 351 |
| Summer Flounder/Scup/Black Sea Bass | 254 | 288 | 328 | 250 | 296 | 306 | 298 | 277 | 271 | 238 | 281 |
| Mackerel/Squid/Butterfish | 209 | 198 | 253 | 195 | 212 | 250 | 211 | 216 | 226 | 198 | 217 |
| No Federal FMP | 184 | 182 | 193 | 192 | 189 | 210 | 192 | 185 | 193 | 147 | 187 |
| Bluefish | 142 | 176 | 221 | 157 | 177 | 188 | 153 | 175 | 110 | 112 | 161 |
| Skates | 141 | 149 | 135 | 102 | 123 | 127 | 109 | 142 | 156 | 106 | 129 |
| Small-Mesh Multispecies | 110 | 92 | 107 | 131 | 134 | 111 | 107 | 129 | 146 | 135 | 120 |
| American Lobster | 91 | 81 | 99 | 77 | 83 | 51 | 51 | 59 | 62 | 56 | 71 |
| Spiny Dogfish | 57 | 69 | 56 | 34 | 32 | 44 | 29 | 38 | 43 | 23 | 43 |
| Northeast Multispecies | 41 | 43 | 55 | 57 | 54 | 20 | 20 | 14 | 18 | 10 | 33 |
| Atlantic Herring | 56 | 33 | 31 | 21 | 19 | 27 | 20 | 26 | 28 | 23 | 28 |
| Golden and Blueline Tilefish | 25 | 28 | 24 | 33 | 23 | 28 | 37 | 36 | 25 | 17 | 28 |
| Jonah Crab | 17 | 27 | 20 | 22 | 23 | 26 | 18 | 24 | 22 | 18 | 22 |
| Surfclam/Ocean Quahog | 23 | 20 | 0 | 5 | 12 | 18 | 27 | 20 | 0 | 26 | 15 |
| Highly Migratory Species | 6 | 12 | 12 | 8 | 13 | 7 | 11 | 11 | 21 | 15 | 12 |
| All FMPs | 2,315 | 2,384 | 2,328 | 1,840 | 2,343 | 2,112 | 2,046 | 1,894 | 1,733 | 1,497 | 2,049 |

Source: NMFS 2022b

Table I-32 Number of Commercial Fishing Vessel Trips in the EW 1 WEA by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| Point Pleasant, New Jersey | 739 | 730 | 867 | 740 | 724 | 680 | 499 | 400 | 430 | 336 | 615 |
| Belford, New Jersey | 639 | 699 | 767 | 510 | 460 | 460 | 558 | 506 | 373 | 0 | 497 |
| Freeport, New York | 383 | 407 | 321 | 237 | 199 | 205 | 207 | 198 | 157 | 104 | 242 |
| Point Lookout, New York | 219 | 471 | 335 | 141 | 155 | 64 | 0 | 0 | 0 | 0 | 139 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|----------------|
| New Bedford, Massachusetts | 184 | 140 | 88 | 39 | 140 | 62 | 89 | 65 | 58 | 44 | 91 |
| Cape May, New Jersey | 79 | 151 | 107 | 65 | 92 | 118 | 98 | 63 | 58 | 36 | 87 |
| Point Judith, Rhode Island | 46 | 70 | 76 | 58 | 121 | 106 | 50 | 52 | 129 | 64 | 77 |
| Barnegat, New Jersey | 84 | 91 | 61 | 78 | 61 | 97 | 75 | 41 | 44 | 0 | 63 |
| Montauk, New York | 25 | 75 | 55 | 10 | 21 | 23 | 0 | 28 | 50 | 20 | 31 |
| Brooklyn, New York | 67 | 91 | 63 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 30 |
| Newport News, Virginia | 25 | 62 | 42 | 35 | 24 | 16 | 16 | 13 | 11 | 7 | 25 |
| Shark River, New Jersey | 126 | 33 | 32 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 21 |
| Hampton, Virginia | 0 | 0 | 32 | 0 | 0 | 31 | 40 | 37 | 0 | 20 | 16 |
| Atlantic City, New Jersey | 9 | 5 | 8 | 4 | 7 | 6 | 46 | 46 | 0 | 11 | 14 |
| Beaufort, North Carolina | 0 | 0 | 4 | 0 | 4 | 14 | 13 | 24 | 25 | 17 | 10 |
| Other Ports | 116 | 47 | 92 | 26 | 49 | 28 | 15 | 39 | 44 | 24 | 48 |
| All Ports | 2,741 | 3,072 | 2,950 | 1,943 | 2,057 | 1,910 | 1,706 | 1,594 | 1,396 | 683 | 2,005 |

Source: NMFS 2022b

Table I-33 Number of Commercial Fishing Vessels that Fished in the EW 1 WEA by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| New Bedford, Massachusetts | 107 | 78 | 57 | 30 | 92 | 42 | 63 | 45 | 32 | 27 | 57 |
| Point Pleasant, New Jersey | 62 | 80 | 59 | 48 | 63 | 49 | 50 | 39 | 38 | 30 | 52 |
| Cape May, New Jersey | 59 | 65 | 51 | 32 | 47 | 44 | 34 | 22 | 12 | 13 | 38 |
| Point Judith, Rhode Island | 22 | 29 | 26 | 27 | 40 | 32 | 25 | 24 | 34 | 29 | 29 |
| Barnegat, New Jersey | 25 | 27 | 20 | 19 | 19 | 26 | 19 | 16 | 15 | 0 | 19 |
| Newport News, Virginia | 16 | 37 | 28 | 21 | 20 | 12 | 14 | 9 | 7 | 7 | 17 |
| Belford, New Jersey | 19 | 18 | 17 | 16 | 14 | 14 | 14 | 15 | 16 | 0 | 14 |
| Hampton, Virginia | 0 | 0 | 19 | 0 | 0 | 19 | 22 | 24 | 0 | 11 | 10 |
| Montauk, New York | 9 | 9 | 13 | 6 | 7 | 7 | 0 | 8 | 10 | 7 | 8 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Beaufort, North Carolina | 0 | 0 | 4 | 0 | 4 | 10 | 11 | 18 | 16 | 11 | 7 |
| Point Lookout, New York | 11 | 18 | 17 | 8 | 10 | 3 | 0 | 0 | 0 | 0 | 7 |
| Freeport, New York | 13 | 8 | 8 | 5 | 7 | 4 | 7 | 6 | 4 | 4 | 7 |
| Shinnecock, New York | 13 | 10 | 4 | 6 | 5 | 3 | 0 | 0 | 0 | 3 | 4 |
| Chincoteague, Virginia | 0 | 0 | 0 | 11 | 6 | 0 | 0 | 9 | 6 | 7 | 4 |
| Atlantic City, New Jersey | 4 | 4 | 4 | 3 | 6 | 4 | 5 | 4 | 0 | 4 | 4 |
| Shark River, New Jersey | 6 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 |
| Stonington, Connecticut | 6 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 0 | 3 | 2 |
| Hampton Bay, New York | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 4 | 3 | 2 |
| Wanchese, North Carolina | 0 | 3 | 0 | 0 | 6 | 0 | 5 | 3 | 0 | 0 | 2 |
| Brooklyn, New York | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 |
| Other Ports | 19 | 8 | 12 | 0 | 7 | 4 | 3 | 4 | 3 | 0 | 6 |
| All Ports | 396 | 405 | 348 | 232 | 359 | 276 | 275 | 253 | 200 | 159 | 290 |

Source: NMFS 2022b

Table I-34 Number of Commercial Fishing Vessel Trips in the EW 2 WEA by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| Point Pleasant, New Jersey | 455 | 559 | 683 | 642 | 687 | 717 | 729 | 528 | 554 | 454 | 601 |
| New Bedford, Massachusetts | 223 | 177 | 127 | 57 | 218 | 96 | 169 | 160 | 89 | 67 | 138 |
| Cape May, New Jersey | 96 | 178 | 158 | 102 | 184 | 148 | 149 | 88 | 68 | 50 | 122 |
| Point Lookout, New York | 187 | 409 | 311 | 134 | 126 | 0 | 0 | 0 | 0 | 0 | 117 |
| Barneгат, New Jersey | 162 | 148 | 85 | 123 | 122 | 171 | 143 | 75 | 133 | 0 | 116 |
| Point Judith, Rhode Island | 64 | 87 | 87 | 112 | 154 | 144 | 125 | 96 | 168 | 111 | 115 |
| Freeport, New York | 229 | 213 | 170 | 87 | 60 | 57 | 0 | 0 | 0 | 0 | 82 |
| Belford, New Jersey | 66 | 123 | 121 | 51 | 72 | 0 | 89 | 72 | 82 | 0 | 68 |
| Montauk, New York | 32 | 87 | 68 | 28 | 26 | 34 | 17 | 43 | 68 | 30 | 43 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|----------------|
| Atlantic City, New Jersey | 26 | 18 | 9 | 22 | 73 | 59 | 61 | 72 | 41 | 24 | 41 |
| Newport News, Virginia | 35 | 70 | 58 | 47 | 39 | 30 | 20 | 25 | 13 | 15 | 35 |
| Hampton, Virginia | 0 | 0 | 47 | 28 | 15 | 51 | 56 | 47 | 14 | 28 | 29 |
| Shinnecock, New York | 58 | 29 | 12 | 20 | 10 | 15 | 13 | 5 | 6 | 17 | 19 |
| Beaufort, North Carolina | 3 | 0 | 4 | 0 | 15 | 28 | 23 | 24 | 45 | 24 | 17 |
| Hampton Bay, New York | 0 | 4 | 0 | 3 | 17 | 0 | 48 | 12 | 41 | 12 | 14 |
| Chincoteague, Virginia | 4 | 0 | 28 | 20 | 17 | 10 | 0 | 16 | 14 | 9 | 12 |
| Other Ports | 89 | 38 | 57 | 13 | 38 | 31 | 35 | 23 | 17 | 8 | 35 |
| All Ports | 1,729 | 2,140 | 2,025 | 1,489 | 1,873 | 1,591 | 1,677 | 1,286 | 1,353 | 849 | 1,601 |

Source: NMFS 2022b

Table I-35 Number of Commercial Fishing Vessels that Fished in the EW 2 WEA by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| New Bedford, Massachusetts | 128 | 100 | 78 | 40 | 123 | 62 | 103 | 103 | 45 | 39 | 82 |
| Point Pleasant, New Jersey | 69 | 80 | 65 | 56 | 69 | 54 | 49 | 45 | 47 | 40 | 57 |
| Cape May, New Jersey | 62 | 72 | 68 | 40 | 55 | 47 | 48 | 36 | 18 | 19 | 47 |
| Point Judith, Rhode Island | 27 | 30 | 27 | 38 | 43 | 37 | 46 | 42 | 38 | 38 | 37 |
| Barneгат, New Jersey | 33 | 29 | 25 | 24 | 24 | 30 | 24 | 22 | 24 | 0 | 24 |
| Newport News, Virginia | 24 | 37 | 35 | 25 | 23 | 21 | 17 | 21 | 9 | 13 | 23 |
| Hampton, Virginia | 0 | 0 | 23 | 11 | 10 | 27 | 25 | 28 | 9 | 14 | 15 |
| Beaufort, North Carolina | 3 | 0 | 4 | 0 | 11 | 20 | 20 | 18 | 27 | 18 | 12 |
| Belford, New Jersey | 16 | 13 | 12 | 13 | 12 | 0 | 9 | 11 | 13 | 0 | 10 |
| Montauk, New York | 9 | 11 | 13 | 11 | 7 | 8 | 6 | 7 | 11 | 8 | 9 |
| Chincoteague, Virginia | 4 | 0 | 14 | 11 | 9 | 7 | 0 | 10 | 8 | 9 | 7 |
| Shinnecock, New York | 16 | 11 | 4 | 6 | 7 | 3 | 4 | 3 | 3 | 5 | 6 |
| Point Lookout, New York | 9 | 14 | 15 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 5 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Atlantic City, New Jersey | 4 | 6 | 4 | 6 | 8 | 9 | 5 | 3 | 4 | 3 | 5 |
| Stonington, Connecticut | 6 | 4 | 6 | 0 | 5 | 4 | 6 | 3 | 0 | 5 | 4 |
| Hampton Bay, New York | 0 | 3 | 0 | 3 | 4 | 0 | 6 | 4 | 5 | 6 | 3 |
| Wanchese, North Carolina | 6 | 4 | 0 | 0 | 8 | 0 | 9 | 4 | 0 | 0 | 3 |
| Freeport, New York | 8 | 5 | 6 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 3 |
| New London, Connecticut | 6 | 6 | 5 | 4 | 0 | 3 | 4 | 0 | 0 | 0 | 3 |
| Ocean City, Maryland | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 5 | 0 | 2 |
| Other Ports | 23 | 6 | 6 | 5 | 8 | 8 | 6 | 4 | 8 | 0 | 7 |
| All Ports | 453 | 431 | 410 | 304 | 438 | 343 | 387 | 364 | 269 | 217 | 362 |

Source: NMFS 2022b

Table I-36 Number of Commercial Fishing Vessel Trips in the Combined EW 1 and EW 2 WEAs by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|----------------|
| Point Pleasant, New Jersey | 1,194 | 1,289 | 1,550 | 1,382 | 1,411 | 1,397 | 1,228 | 928 | 984 | 790 | 1,215 |
| Belford, New Jersey | 705 | 822 | 888 | 561 | 532 | 460 | 647 | 578 | 455 | 0 | 565 |
| Freeport, New York | 612 | 620 | 491 | 324 | 259 | 262 | 207 | 198 | 157 | 104 | 323 |
| Point Lookout, New York | 406 | 880 | 646 | 275 | 281 | 64 | 0 | 0 | 0 | 0 | 255 |
| New Bedford, Massachusetts | 407 | 317 | 215 | 96 | 358 | 158 | 258 | 225 | 147 | 111 | 229 |
| Cape May, New Jersey | 175 | 329 | 265 | 167 | 276 | 266 | 247 | 151 | 126 | 86 | 209 |
| Point Judith, Rhode Island | 110 | 157 | 163 | 170 | 275 | 250 | 175 | 148 | 297 | 175 | 192 |
| Barneгат, New Jersey | 246 | 239 | 146 | 201 | 183 | 268 | 218 | 116 | 177 | 0 | 179 |
| Montauk, New York | 57 | 162 | 123 | 38 | 47 | 57 | 17 | 71 | 118 | 50 | 74 |
| Newport News, Virginia | 60 | 132 | 100 | 82 | 63 | 46 | 36 | 38 | 24 | 22 | 60 |
| Atlantic City, New Jersey | 35 | 23 | 17 | 26 | 80 | 65 | 107 | 118 | 41 | 35 | 55 |
| Hampton, Virginia | 0 | 0 | 79 | 28 | 15 | 82 | 96 | 84 | 14 | 48 | 45 |
| Brooklyn, New York | 77 | 91 | 63 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 31 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Beaufort, North Carolina | 3 | 0 | 8 | 0 | 19 | 42 | 36 | 48 | 70 | 41 | 27 |
| Shinnecock, New York | 81 | 48 | 17 | 30 | 15 | 21 | 13 | 5 | 6 | 24 | 26 |
| Shark River, New Jersey | 126 | 33 | 32 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 21 |
| Hampton Bay, New York | 0 | 8 | 0 | 3 | 22 | 0 | 48 | 21 | 69 | 17 | 19 |
| Chincoteague, Virginia | 4 | 0 | 28 | 36 | 29 | 10 | 0 | 29 | 26 | 16 | 18 |
| Stonington, Connecticut | 31 | 5 | 12 | 0 | 9 | 15 | 12 | 5 | 0 | 13 | 10 |
| Other Ports | 141 | 57 | 132 | 13 | 56 | 38 | 38 | 35 | 21 | 0 | 53 |
| All Ports | 4,470 | 5,212 | 4,975 | 3,432 | 3,930 | 3,501 | 3,383 | 2,880 | 2,749 | 1,532 | 3,606 |

Source: NMFS 2022b

Table I-37 Number of Commercial Fishing Vessels That Fished in the Combined EW 1 and EW 2 WEAs by Fishing Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|------|------|------|------|------|------|------|------|------|------|----------------|
| New Bedford, Massachusetts | 235 | 178 | 135 | 70 | 215 | 104 | 166 | 148 | 77 | 66 | 139 |
| Point Pleasant, New Jersey | 131 | 160 | 124 | 104 | 132 | 103 | 99 | 84 | 85 | 70 | 109 |
| Cape May, New Jersey | 121 | 137 | 119 | 72 | 102 | 91 | 82 | 58 | 30 | 32 | 84 |
| Point Judith, Rhode Island | 49 | 59 | 53 | 65 | 83 | 69 | 71 | 66 | 72 | 67 | 65 |
| Barnegat, New Jersey | 58 | 56 | 45 | 43 | 43 | 56 | 43 | 38 | 39 | 0 | 42 |
| Newport News, Virginia | 40 | 74 | 63 | 46 | 43 | 33 | 31 | 30 | 16 | 20 | 40 |
| Belford, New Jersey | 35 | 31 | 29 | 29 | 26 | 14 | 23 | 26 | 29 | 0 | 24 |
| Hampton, Virginia | 0 | 0 | 42 | 11 | 10 | 46 | 47 | 52 | 9 | 25 | 24 |
| Beaufort, North Carolina | 3 | 0 | 8 | 0 | 15 | 30 | 31 | 36 | 43 | 29 | 20 |
| Montauk, New York | 18 | 20 | 26 | 17 | 14 | 15 | 6 | 15 | 21 | 15 | 17 |
| Point Lookout, New York | 20 | 32 | 32 | 15 | 18 | 3 | 0 | 0 | 0 | 0 | 12 |
| Chincoteague, Virginia | 4 | 0 | 14 | 22 | 15 | 7 | 0 | 19 | 14 | 16 | 11 |
| Shinnecock, New York | 29 | 21 | 8 | 12 | 12 | 6 | 4 | 3 | 3 | 8 | 11 |
| Freeport, New York | 21 | 13 | 14 | 9 | 11 | 7 | 7 | 6 | 4 | 4 | 10 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Atlantic City, New Jersey | 8 | 10 | 8 | 9 | 14 | 13 | 10 | 7 | 4 | 7 | 9 |
| Stonington, Connecticut | 12 | 4 | 6 | 0 | 8 | 7 | 9 | 3 | 0 | 8 | 6 |
| Hampton Bay, New York | 0 | 6 | 0 | 3 | 7 | 0 | 6 | 8 | 9 | 9 | 5 |
| Wanchese, North Carolina | 6 | 7 | 0 | 0 | 14 | 0 | 14 | 7 | 0 | 0 | 5 |
| New London, Connecticut | 11 | 11 | 9 | 4 | 0 | 3 | 4 | 0 | 0 | 0 | 4 |
| Ocean City, Maryland | 0 | 0 | 0 | 0 | 0 | 9 | 6 | 8 | 5 | 0 | 3 |
| Other Ports | 48 | 17 | 23 | 5 | 15 | 3 | 3 | 3 | 9 | 0 | 13 |
| All Ports | 849 | 836 | 758 | 536 | 797 | 619 | 662 | 617 | 469 | 376 | 652 |

Source: NMFS 2022b

Table I-38 Commercial Landings (pounds) in the EW 1 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| Mackerel/Squid/Butterfish | 239,612 | 134,140 | 309,699 | 64,256 | 181,254 | 24,318 | 2,287 | 13,828 | 94,081 | 32,926 | 109,640 |
| Atlantic Herring | 128,510 | 76,076 | 94,327 | 50,942 | 13,989 | 17,595 | 32,404 | 7,694 | 71,741 | 26,860 | 52,014 |
| Sea Scallop | 99,303 | 140,662 | 53,545 | 30,113 | 35,465 | 17,396 | 15,590 | 10,844 | 3,233 | 2,619 | 40,877 |
| No Federal FMP | 30,148 | 14,322 | 11,745 | 18,568 | 21,556 | 8,248 | 16,780 | 62,820 | 58,617 | 4,614 | 24,742 |
| Surfclam/Ocean Quahog | 11,255 | 2,010 | 0 | 33,814 | 0 | 2,362 | 47,461 | 38,084 | 0 | 9,046 | 14,403 |
| Summer Flounder/Scup/Black Sea Bass | 28,770 | 14,801 | 12,864 | 8,161 | 10,558 | 13,832 | 7,028 | 9,893 | 24,655 | 11,334 | 14,190 |
| Skates | 7,090 | 4,356 | 6,485 | 5,813 | 6,688 | 6,612 | 5,372 | 6,018 | 6,394 | 5,717 | 6,055 |
| Small-Mesh Multispecies | 3,572 | 6,119 | 4,590 | 2,164 | 3,452 | 1,251 | 301 | 330 | 469 | 1,207 | 2,346 |
| Spiny Dogfish | 3,041 | 5,444 | 1,494 | 1,552 | 1,238 | 1,468 | 1,868 | 3,647 | 1,932 | 698 | 2,238 |
| Monkfish | 2,509 | 2,596 | 1,674 | 792 | 1,096 | 1,536 | 1,510 | 412 | 476 | 217 | 1,282 |
| American Lobster | 880 | 1,225 | 1,054 | 1,339 | 1,192 | 1,296 | 742 | 583 | 449 | 342 | 910 |
| Bluefish | 534 | 1,763 | 1,289 | 416 | 523 | 356 | 228 | 174 | 195 | 187 | 567 |
| Jonah Crab | 40 | 35 | 43 | 53 | 103 | 463 | 412 | 103 | 218 | 354 | 182 |
| Northeast Multispecies | 23 | 292 | 192 | 463 | 92 | 27 | 1 | 2 | 4 | 0 | 110 |
| Golden and Blueline Tilefish | 4 | 2 | 1 | 87 | 2 | 2 | 0 | 0 | 0 | 0 | 10 |
| Highly Migratory Species | 0 | 2 | 3 | 0 | 53 | 0 | 0 | 2 | 14 | 0 | 7 |
| Total | 555,291 | 403,845 | 499,005 | 218,533 | 277,261 | 96,762 | 131,984 | 154,434 | 262,478 | 96,121 | 269,571 |

Source: NMFS 2022b

Table I-39 Commercial Revenue (2019 dollars) in the EW 1 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|------------------|
| Sea Scallop | \$905,270 | \$1,553,300 | \$582,889 | \$382,660 | \$463,631 | \$233,020 | \$190,129 | \$90,430 | \$28,614 | \$24,909 | \$445,485 |
| Mackerel/Squid/Butterfish | \$60,872 | \$192,665 | \$278,145 | \$78,853 | \$195,744 | \$23,117 | \$1,938 | \$9,114 | \$50,488 | \$17,558 | \$90,849 |
| Summer Flounder/Scup/Black Sea Bass | \$83,531 | \$36,874 | \$36,123 | \$20,883 | \$29,470 | \$38,350 | \$23,320 | \$28,208 | \$40,603 | \$24,604 | \$36,197 |
| No Federal FMP | \$14,426 | \$10,777 | \$10,458 | \$21,078 | \$15,580 | \$8,878 | \$16,507 | \$63,640 | \$29,265 | \$4,855 | \$19,546 |
| Surfclam/Ocean Quahog | \$8,567 | \$1,529 | \$0 | \$24,181 | \$0 | \$1,208 | \$33,690 | \$27,189 | \$0 | \$7,260 | \$10,362 |
| Atlantic Herring | \$14,744 | \$8,237 | \$12,140 | \$11,895 | \$1,648 | \$2,485 | \$3,927 | \$1,314 | \$12,439 | \$5,975 | \$7,480 |
| American Lobster | \$4,052 | \$6,324 | \$4,639 | \$6,229 | \$6,002 | \$6,480 | \$3,917 | \$3,007 | \$2,266 | \$1,797 | \$4,471 |
| Monkfish | \$6,564 | \$6,725 | \$4,946 | \$1,785 | \$2,400 | \$3,135 | \$2,852 | \$570 | \$595 | \$301 | \$2,987 |
| Small-Mesh Multispecies | \$2,570 | \$6,142 | \$3,168 | \$1,460 | \$2,291 | \$838 | \$184 | \$314 | \$543 | \$1,026 | \$1,854 |
| Skates | \$1,625 | \$1,411 | \$1,067 | \$800 | \$1,203 | \$923 | \$682 | \$769 | \$1,055 | \$651 | \$1,019 |
| Spiny Dogfish | \$630 | \$1,577 | \$348 | \$316 | \$236 | \$293 | \$416 | \$793 | \$425 | \$146 | \$518 |
| Bluefish | \$340 | \$1,310 | \$818 | \$304 | \$375 | \$213 | \$169 | \$129 | \$194 | \$103 | \$396 |
| Northeast Multispecies | \$61 | \$424 | \$247 | \$883 | \$209 | \$59 | \$4 | \$2 | \$10 | \$0 | \$190 |
| Jonah Crab | \$26 | \$23 | \$29 | \$34 | \$69 | \$321 | \$336 | \$87 | \$200 | \$299 | \$142 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| Golden and Blueline Tilefish | \$6 | \$5 | \$3 | \$213 | \$5 | \$4 | \$0 | \$0 | \$0 | \$0 | \$24 |
| Highly Migratory Species | \$0 | \$1 | \$3 | \$0 | \$64 | \$0 | \$0 | \$3 | \$14 | \$0 | \$9 |
| Total | \$1,103,282 | \$1,827,320 | \$935,025 | \$551,574 | \$718,928 | \$319,324 | \$278,071 | \$225,570 | \$166,713 | \$89,484 | \$621,529 |

Source: NMFS 2022b

Table I-40 Commercial Landings (pounds) in the EW 2 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Sea Scallop | 177,900 | 461,243 | 300,533 | 97,432 | 182,820 | 87,253 | 77,992 | 38,252 | 14,407 | 12,963 | 145,080 |
| Atlantic Herring | 182,604 | 67,018 | 312,008 | 174,456 | 42,082 | 26,169 | 179,426 | 19,124 | 85,755 | 54,178 | 114,282 |
| Mackerel/Squid/Butterfish | 251,552 | 36,413 | 195,604 | 16,672 | 52,020 | 35,365 | 4,589 | 21,826 | 128,762 | 61,182 | 80,399 |
| No Federal FMP | 16,038 | 48,754 | 27,132 | 16,659 | 12,717 | 12,339 | 64,041 | 70,453 | 52,072 | 18,548 | 33,875 |
| Summer Flounder/Scup/Black Sea Bass | 8,167 | 9,136 | 9,978 | 8,697 | 11,406 | 13,803 | 11,316 | 16,240 | 81,980 | 31,468 | 20,219 |
| Surfclam/Ocean Quahog | 6,306 | 0 | 0 | 0 | 0 | 0 | 54,771 | 54,600 | 0 | 30,037 | 14,571 |
| Monkfish | 8,993 | 9,408 | 7,085 | 3,010 | 4,119 | 8,799 | 15,213 | 4,784 | 10,003 | 851 | 7,227 |
| Skates | 2,917 | 2,550 | 2,368 | 976 | 4,248 | 4,025 | 3,791 | 2,302 | 6,618 | 2,029 | 3,182 |
| Spiny Dogfish | 1,101 | 2,614 | 1,061 | 592 | 432 | 930 | 349 | 348 | 1,083 | 279 | 879 |
| Small-Mesh Multispecies | 1,477 | 2,239 | 793 | 406 | 877 | 322 | 154 | 224 | 286 | 204 | 698 |
| American Lobster | 260 | 528 | 598 | 306 | 1,707 | 1,223 | 509 | 358 | 253 | 401 | 614 |
| Bluefish | 273 | 739 | 544 | 232 | 247 | 330 | 232 | 400 | 1,054 | 335 | 439 |
| Jonah Crab | 6 | 5 | 8 | 77 | 178 | 829 | 179 | 159 | 175 | 794 | 241 |
| Northeast Multispecies | 22 | 169 | 168 | 140 | 45 | 49 | 1 | 0 | 0 | 0 | 59 |
| Highly Migratory Species | 0 | 0 | 0 | 0 | 10 | 1 | 1 | 3 | 131 | 1 | 15 |
| Golden and Blueline Tilefish | 73 | 4 | 2 | 26 | 3 | 1 | 2 | 3 | 2 | 1 | 12 |
| Total | 657,689 | 640,820 | 857,882 | 319,681 | 312,911 | 191,438 | 412,566 | 229,076 | 382,581 | 213,271 | 421,792 |

Source: NMFS 2022b

Table I-41 Commercial Revenue (2019 dollars) in the EW 2 WEA by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|----------------|
| Sea Scallop | \$1,587,794 | \$5,082,223 | \$3,320,194 | \$1,255,078 | \$2,415,258 | \$1,178,192 | \$982,485 | \$346,151 | \$132,646 | \$129,895 | \$1,642,992 |
| Summer Flounder/Scup/Black Sea Bass | \$21,041 | \$19,131 | \$20,872 | \$17,113 | \$28,806 | \$32,929 | \$30,775 | \$32,546 | \$138,362 | \$61,423 | \$40,300 |
| Mackerel/Squid/Butterfish | \$60,721 | \$52,632 | \$93,476 | \$18,928 | \$56,306 | \$30,526 | \$4,268 | \$9,543 | \$49,026 | \$22,756 | \$39,818 |
| No Federal FMP | \$3,447 | \$27,368 | \$17,703 | \$13,165 | \$11,477 | \$10,132 | \$48,486 | \$75,615 | \$37,552 | \$20,914 | \$26,586 |
| Atlantic Herring | \$22,558 | \$8,647 | \$35,524 | \$41,830 | \$4,537 | \$3,326 | \$21,796 | \$3,672 | \$14,592 | \$11,542 | \$16,802 |
| Monkfish | \$21,239 | \$25,006 | \$20,480 | \$6,167 | \$9,472 | \$16,223 | \$26,546 | \$6,789 | \$11,330 | \$1,191 | \$14,445 |
| Surfclam/Ocean Quahog | \$4,513 | \$0 | \$0 | \$0 | \$0 | \$0 | \$41,093 | \$43,055 | \$0 | \$27,375 | \$11,604 |
| American Lobster | \$1,230 | \$2,897 | \$2,813 | \$1,467 | \$8,909 | \$6,523 | \$2,775 | \$1,920 | \$1,257 | \$2,096 | \$3,189 |
| Skates | \$1,584 | \$1,534 | \$754 | \$395 | \$889 | \$1,250 | \$1,187 | \$715 | \$2,489 | \$320 | \$1,112 |
| Small-Mesh Multispecies | \$1,065 | \$3,182 | \$549 | \$255 | \$573 | \$213 | \$76 | \$217 | \$303 | \$153 | \$659 |
| Bluefish | \$196 | \$503 | \$393 | \$172 | \$179 | \$230 | \$175 | \$300 | \$1,110 | \$217 | \$348 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| Spiny Dogfish | \$231 | \$711 | \$237 | \$108 | \$80 | \$162 | \$71 | \$72 | \$242 | \$54 | \$197 |
| Jonah Crab | \$4 | \$5 | \$4 | \$54 | \$159 | \$588 | \$126 | \$142 | \$174 | \$633 | \$189 |
| Northeast Multispecies | \$65 | \$299 | \$203 | \$243 | \$102 | \$115 | \$2 | \$0 | \$0 | \$0 | \$103 |
| Golden and Blueline Tilefish | \$252 | \$7 | \$4 | \$64 | \$9 | \$2 | \$7 | \$4 | \$2 | \$1 | \$35 |
| Highly Migratory Species | \$0 | \$0 | \$0 | \$0 | \$11 | \$2 | \$3 | \$4 | \$118 | \$3 | \$14 |
| Total | \$1,725,942 | \$5,224,143 | \$3,513,209 | \$1,355,042 | \$2,536,768 | \$1,280,414 | \$1,159,872 | \$520,744 | \$389,203 | \$278,573 | \$1,798,391 |

Source: NMFS 2022b

Table I-42 Commercial Landings (pounds) in the Combined EW 1 and EW 2 WEAs by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Mackerel/Squid/Butterfish | 491,164 | 170,553 | 505,303 | 80,928 | 233,274 | 59,683 | 6,876 | 35,654 | 222,843 | 94,108 | 190,039 |
| Sea Scallop | 277,203 | 601,905 | 354,078 | 127,545 | 218,285 | 104,649 | 93,582 | 49,096 | 17,640 | 15,582 | 185,957 |
| Atlantic Herring | 311,114 | 143,094 | 406,335 | 225,398 | 56,071 | 43,764 | 211,830 | 26,818 | 157,496 | 81,038 | 166,296 |
| No Federal FMP | 46,186 | 63,076 | 38,877 | 35,227 | 34,273 | 20,587 | 80,821 | 133,273 | 110,689 | 23,162 | 58,617 |
| Summer Flounder/Scup/Black Sea Bass | 36,937 | 23,937 | 22,842 | 16,858 | 21,964 | 27,635 | 18,344 | 26,133 | 106,635 | 42,802 | 34,409 |
| Surfclam/Ocean Quahog | 17,561 | 2,010 | 0 | 33,814 | 0 | 2,362 | 102,232 | 92,684 | 0 | 39,083 | 28,975 |
| Skates | 10,007 | 6,906 | 8,853 | 6,789 | 10,936 | 10,637 | 9,163 | 8,320 | 13,012 | 7,746 | 9,237 |
| Monkfish | 11,502 | 12,004 | 8,759 | 3,802 | 5,215 | 10,335 | 16,723 | 5,196 | 10,479 | 1,068 | 8,508 |
| Spiny Dogfish | 4,142 | 8,058 | 2,555 | 2,144 | 1,670 | 2,398 | 2,217 | 3,995 | 3,015 | 977 | 3,117 |
| Small-Mesh Multispecies | 5,049 | 8,358 | 5,383 | 2,570 | 4,329 | 1,573 | 455 | 554 | 755 | 1,411 | 3,044 |
| American Lobster | 1,140 | 1,753 | 1,652 | 1,645 | 2,899 | 2,519 | 1,251 | 941 | 702 | 743 | 1,525 |
| Bluefish | 807 | 2,502 | 1,833 | 648 | 770 | 686 | 460 | 574 | 1,249 | 522 | 1,005 |
| Jonah Crab | 46 | 40 | 51 | 130 | 281 | 1,292 | 591 | 262 | 393 | 1,148 | 423 |
| Northeast Multispecies | 45 | 461 | 360 | 603 | 137 | 76 | 2 | 2 | 4 | 0 | 169 |
| Highly Migratory Species | 0 | 2 | 3 | 0 | 63 | 1 | 1 | 5 | 145 | 1 | 22 |
| Golden and Blueline Tilefish | 77 | 6 | 3 | 113 | 5 | 3 | 2 | 3 | 2 | 1 | 22 |
| All FMPs | 1,212,980 | 1,044,665 | 1,356,887 | 538,214 | 590,172 | 288,200 | 544,550 | 383,510 | 645,059 | 309,392 | 691,363 |

Source: NMFS 2022b

Table I-43 Commercial Revenue (2019 dollars) in the Combined EW 1 and EW 2 WEAs by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|----------------|
| Sea Scallop | \$2,493,064 | \$6,635,522 | \$3,903,083 | \$1,637,739 | \$2,878,889 | \$1,411,212 | \$1,172,615 | \$436,581 | \$161,259 | \$154,804 | \$2,088,477 |
| Mackerel/Squid/Butterfish | \$121,593 | \$245,297 | \$371,622 | \$97,781 | \$252,050 | \$53,644 | \$6,205 | \$18,657 | \$99,514 | \$40,314 | \$130,668 |
| Summer Flounder/Scup/Black Sea Bass | \$104,571 | \$56,004 | \$56,995 | \$37,996 | \$58,276 | \$71,280 | \$54,095 | \$60,754 | \$178,964 | \$86,027 | \$76,496 |
| No Federal FMP | \$17,873 | \$38,145 | \$28,161 | \$34,243 | \$27,057 | \$19,010 | \$64,993 | \$139,255 | \$66,817 | \$25,769 | \$46,132 |
| Atlantic Herring | \$37,302 | \$16,884 | \$47,664 | \$53,726 | \$6,184 | \$5,810 | \$25,722 | \$4,986 | \$27,032 | \$17,517 | \$24,283 |
| Surfclam/Ocean Quahog | \$13,080 | \$1,529 | \$0 | \$24,181 | \$0 | \$1,208 | \$74,783 | \$70,244 | \$0 | \$34,635 | \$21,966 |
| Monkfish | \$27,803 | \$31,730 | \$25,427 | \$7,953 | \$11,872 | \$19,358 | \$29,398 | \$7,359 | \$11,926 | \$1,492 | \$17,432 |
| American Lobster | \$5,281 | \$9,221 | \$7,452 | \$7,697 | \$14,911 | \$13,003 | \$6,692 | \$4,927 | \$3,522 | \$3,893 | \$7,660 |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| Small-Mesh Multispecies | \$3,635 | \$9,324 | \$3,717 | \$1,715 | \$2,864 | \$1,051 | \$260 | \$531 | \$847 | \$1,179 | \$2,512 |
| Skates | \$3,209 | \$2,945 | \$1,821 | \$1,196 | \$2,092 | \$2,172 | \$1,869 | \$1,484 | \$3,544 | \$971 | \$2,130 |
| Bluefish | \$537 | \$1,813 | \$1,211 | \$476 | \$554 | \$443 | \$344 | \$429 | \$1,304 | \$320 | \$743 |
| Spiny Dogfish | \$862 | \$2,288 | \$585 | \$424 | \$317 | \$455 | \$487 | \$865 | \$667 | \$200 | \$715 |
| Jonah Crab | \$29 | \$27 | \$34 | \$88 | \$229 | \$909 | \$462 | \$228 | \$374 | \$932 | \$331 |
| Northeast Multispecies | \$126 | \$723 | \$451 | \$1,126 | \$311 | \$174 | \$6 | \$2 | \$10 | \$0 | \$293 |
| Golden and Blueline Tilefish | \$258 | \$11 | \$8 | \$277 | \$14 | \$6 | \$7 | \$4 | \$2 | \$1 | \$59 |
| Highly Migratory Species | \$0 | \$1 | \$3 | \$0 | \$75 | \$2 | \$3 | \$7 | \$132 | \$3 | \$23 |
| All FMPs | \$2,829,224 | \$7,051,463 | \$4,448,234 | \$1,906,616 | \$3,255,695 | \$1,599,738 | \$1,437,943 | \$746,314 | \$555,916 | \$368,057 | \$2,419,920 |

Source: NMFS 2022b

Table I-44 Commercial Landings in the EW 1 WEA as a Percentage of Landings in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Mackerel/Squid/Butterfish | 0.340% | 0.211% | 0.566% | 0.158% | 0.319% | 0.051% | 0.003% | 0.015% | 0.094% | 0.032% | 0.179% |
| Sea Scallop | 0.174% | 0.240% | 0.094% | 0.074% | 0.105% | 0.049% | 0.038% | 0.021% | 0.006% | 0.004% | 0.080% |
| Summer Flounder/Scup/Black Sea Bass | 0.133% | 0.051% | 0.046% | 0.026% | 0.041% | 0.052% | 0.030% | 0.043% | 0.118% | 0.048% | 0.059% |
| Atlantic Herring | 0.088% | 0.043% | 0.049% | 0.025% | 0.007% | 0.010% | 0.023% | 0.007% | 0.074% | 0.109% | 0.044% |
| Surfclam/Ocean Quahog | 0.016% | 0.003% | 0.000% | 0.055% | 0.000% | 0.004% | 0.118% | 0.108% | 0.000% | 0.020% | 0.033% |
| Bluefish | 0.014% | 0.054% | 0.033% | 0.014% | 0.019% | 0.012% | 0.008% | 0.008% | 0.016% | 0.011% | 0.019% |
| Skates | 0.018% | 0.012% | 0.018% | 0.019% | 0.020% | 0.021% | 0.016% | 0.019% | 0.020% | 0.021% | 0.018% |
| Spiny Dogfish | 0.028% | 0.029% | 0.007% | 0.012% | 0.008% | 0.010% | 0.008% | 0.019% | 0.014% | 0.005% | 0.014% |
| Small-Mesh Multispecies | 0.019% | 0.033% | 0.025% | 0.015% | 0.020% | 0.008% | 0.002% | 0.003% | 0.004% | 0.010% | 0.014% |
| Monkfish | 0.015% | 0.014% | 0.008% | 0.004% | 0.006% | 0.008% | 0.008% | 0.002% | 0.002% | 0.001% | 0.007% |
| No Federal FMP | 0.004% | 0.002% | 0.002% | 0.003% | 0.004% | 0.001% | 0.003% | 0.011% | 0.009% | 0.001% | 0.004% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.003% | 0.003% | 0.001% | 0.001% | 0.002% | 0.001% |
| American Lobster | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Golden and Blueline Tilefish | 0.000% | 0.000% | 0.000% | 0.005% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Northeast Multispecies | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| All FMP Species¹ | 0.080% | 0.056% | 0.067% | 0.029% | 0.038% | 0.014% | 0.018% | 0.015% | 0.033% | 0.017% | 0.037% |

Source: NMFS 2022a, 2022b

¹ Excludes landings that did not occur under a federal FMP.

Table I-45 Commercial Revenue in the EW 1 WEA as a Percentage of Revenue in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Mackerel/Squid/Butterfish | 0.192% | 0.428% | 0.679% | 0.254% | 0.523% | 0.058% | 0.003% | 0.016% | 0.074% | 0.022% | 0.225% |
| Summer Flounder/Scup/Black Sea Bass | 0.252% | 0.095% | 0.084% | 0.048% | 0.074% | 0.090% | 0.056% | 0.072% | 0.102% | 0.058% | 0.093% |
| Sea Scallop | 0.201% | 0.268% | 0.104% | 0.082% | 0.109% | 0.053% | 0.039% | 0.018% | 0.005% | 0.004% | 0.088% |
| Atlantic Herring | 0.069% | 0.033% | 0.042% | 0.037% | 0.006% | 0.010% | 0.014% | 0.005% | 0.054% | 0.066% | 0.033% |
| Surfclam/Ocean Quahog | 0.018% | 0.004% | 0.000% | 0.054% | 0.000% | 0.003% | 0.107% | 0.086% | 0.000% | 0.019% | 0.029% |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Bluefish | 0.018% | 0.060% | 0.030% | 0.013% | 0.019% | 0.009% | 0.008% | 0.007% | 0.015% | 0.006% | 0.018% |
| Small-Mesh Multispecies | 0.022% | 0.053% | 0.028% | 0.016% | 0.019% | 0.008% | 0.002% | 0.003% | 0.005% | 0.011% | 0.017% |
| Spiny Dogfish | 0.027% | 0.037% | 0.008% | 0.015% | 0.008% | 0.011% | 0.008% | 0.022% | 0.016% | 0.005% | 0.016% |
| Monkfish | 0.034% | 0.025% | 0.018% | 0.010% | 0.013% | 0.016% | 0.014% | 0.003% | 0.004% | 0.002% | 0.014% |
| Skates | 0.021% | 0.016% | 0.013% | 0.011% | 0.013% | 0.014% | 0.012% | 0.012% | 0.015% | 0.010% | 0.014% |
| No Federal FMP | 0.003% | 0.003% | 0.002% | 0.005% | 0.004% | 0.002% | 0.003% | 0.013% | 0.006% | 0.001% | 0.004% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.003% | 0.003% | 0.001% | 0.001% | 0.002% | 0.001% |
| American Lobster | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% | 0.000% | 0.000% | 0.001% |
| Golden and Blueline Tilefish | 0.000% | 0.000% | 0.000% | 0.004% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Northeast Multispecies | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| All FMP Species¹ | 0.095% | 0.137% | 0.070% | 0.044% | 0.055% | 0.023% | 0.018% | 0.012% | 0.010% | 0.006% | 0.047% |

Source: NMFS 2022a, 2022b

¹ Excludes revenue that did not occur under a federal FMP.

Table I-46 Commercial Landings in the EW 2 WEA as a Percentage of Landings in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Sea Scallop | 0.312% | 0.785% | 0.528% | 0.238% | 0.542% | 0.245% | 0.192% | 0.074% | 0.025% | 0.021% | 0.296% |
| Mackerel/Squid/Butterfish | 0.357% | 0.057% | 0.357% | 0.041% | 0.092% | 0.074% | 0.007% | 0.024% | 0.129% | 0.059% | 0.120% |
| Atlantic Herring | 0.125% | 0.038% | 0.163% | 0.085% | 0.021% | 0.015% | 0.130% | 0.018% | 0.089% | 0.219% | 0.090% |
| Summer Flounder/Scup/Black Sea Bass | 0.038% | 0.031% | 0.036% | 0.028% | 0.045% | 0.052% | 0.048% | 0.071% | 0.393% | 0.133% | 0.087% |
| Surfclam/Ocean Quahog | 0.009% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.136% | 0.155% | 0.000% | 0.067% | 0.037% |
| Monkfish | 0.055% | 0.049% | 0.033% | 0.016% | 0.022% | 0.047% | 0.077% | 0.020% | 0.044% | 0.004% | 0.037% |
| Bluefish | 0.007% | 0.023% | 0.014% | 0.008% | 0.009% | 0.011% | 0.008% | 0.018% | 0.088% | 0.020% | 0.021% |
| Skates | 0.007% | 0.007% | 0.007% | 0.003% | 0.013% | 0.013% | 0.011% | 0.007% | 0.021% | 0.007% | 0.010% |
| Spiny Dogfish | 0.010% | 0.014% | 0.005% | 0.005% | 0.003% | 0.006% | 0.001% | 0.002% | 0.008% | 0.002% | 0.006% |
| No Federal FMP | 0.002% | 0.007% | 0.004% | 0.003% | 0.002% | 0.002% | 0.011% | 0.012% | 0.008% | 0.003% | 0.005% |
| Small-Mesh Multispecies | 0.008% | 0.012% | 0.004% | 0.003% | 0.005% | 0.002% | 0.001% | 0.002% | 0.002% | 0.002% | 0.004% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.006% | 0.001% | 0.001% | 0.001% | 0.005% | 0.002% |
| Golden and Blueline Tilefish | 0.004% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.005% | 0.000% | 0.001% |
| American Lobster | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Northeast Multispecies | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| All FMP Species¹ | 0.097% | 0.085% | 0.115% | 0.045% | 0.044% | 0.028% | 0.056% | 0.026% | 0.054% | 0.036% | 0.059% |

Source: NMFS 2022a, 2022b

¹ Excludes landings that did not occur under a federal FMP.

Table I-47 Commercial Revenue in the EW 2 WEA as a Percentage of Revenue in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Sea Scallop | 0.352% | 0.875% | 0.594% | 0.269% | 0.570% | 0.269% | 0.202% | 0.068% | 0.025% | 0.023% | 0.325% |
| Summer Flounder/Scup/Black Sea Bass | 0.064% | 0.049% | 0.049% | 0.039% | 0.072% | 0.077% | 0.074% | 0.083% | 0.346% | 0.144% | 0.100% |
| Mackerel/Squid/Butterfish | 0.191% | 0.117% | 0.228% | 0.061% | 0.150% | 0.077% | 0.007% | 0.017% | 0.071% | 0.029% | 0.095% |
| Monkfish | 0.111% | 0.094% | 0.076% | 0.033% | 0.051% | 0.085% | 0.133% | 0.037% | 0.077% | 0.008% | 0.070% |
| Atlantic Herring | 0.105% | 0.034% | 0.124% | 0.132% | 0.016% | 0.014% | 0.075% | 0.014% | 0.063% | 0.127% | 0.070% |
| Surfclam/Ocean Quahog | 0.010% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.130% | 0.137% | 0.000% | 0.073% | 0.035% |
| Bluefish | 0.010% | 0.023% | 0.014% | 0.008% | 0.009% | 0.010% | 0.008% | 0.016% | 0.084% | 0.012% | 0.019% |
| Skates | 0.021% | 0.018% | 0.009% | 0.005% | 0.009% | 0.019% | 0.021% | 0.011% | 0.034% | 0.005% | 0.015% |
| Spiny Dogfish | 0.010% | 0.017% | 0.005% | 0.005% | 0.003% | 0.006% | 0.001% | 0.002% | 0.009% | 0.002% | 0.006% |
| Small-Mesh Multispecies | 0.009% | 0.027% | 0.005% | 0.003% | 0.005% | 0.002% | 0.001% | 0.002% | 0.003% | 0.002% | 0.006% |
| No Federal FMP | 0.001% | 0.008% | 0.004% | 0.003% | 0.003% | 0.002% | 0.009% | 0.016% | 0.008% | 0.004% | 0.006% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.006% | 0.001% | 0.001% | 0.001% | 0.005% | 0.002% |
| Golden and Blueline Tilefish | 0.005% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| American Lobster | 0.000% | 0.001% | 0.001% | 0.000% | 0.002% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Northeast Multispecies | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% |
| All FMP Species¹ | 0.151% | 0.391% | 0.265% | 0.111% | 0.197% | 0.095% | 0.076% | 0.033% | 0.024% | 0.017% | 0.136% |

Source: NMFS 2022a, 2022b

¹ Excludes revenue that did not occur under a federal FMP.

Table I-48 Commercial Landings in the Combined EW 1 and EW 2 WEAs as a Percentage of Landings in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Sea Scallop | 0.486% | 1.025% | 0.623% | 0.311% | 0.647% | 0.294% | 0.231% | 0.095% | 0.031% | 0.026% | 0.377% |
| Mackerel/Squid/Butterfish | 0.697% | 0.268% | 0.923% | 0.199% | 0.411% | 0.125% | 0.010% | 0.040% | 0.223% | 0.090% | 0.299% |
| Summer Flounder/Scup/Black Sea Bass | 0.170% | 0.082% | 0.082% | 0.054% | 0.086% | 0.104% | 0.077% | 0.113% | 0.511% | 0.182% | 0.146% |
| Atlantic Herring | 0.213% | 0.081% | 0.212% | 0.109% | 0.028% | 0.025% | 0.153% | 0.025% | 0.163% | 0.328% | 0.134% |
| Surfclam/Ocean Quahog | 0.025% | 0.003% | 0.000% | 0.055% | 0.000% | 0.004% | 0.254% | 0.263% | 0.000% | 0.088% | 0.069% |
| Monkfish | 0.070% | 0.063% | 0.041% | 0.020% | 0.028% | 0.055% | 0.084% | 0.022% | 0.046% | 0.005% | 0.043% |
| Bluefish | 0.022% | 0.077% | 0.047% | 0.021% | 0.028% | 0.022% | 0.016% | 0.025% | 0.104% | 0.032% | 0.039% |
| Skates | 0.025% | 0.019% | 0.024% | 0.022% | 0.033% | 0.034% | 0.028% | 0.026% | 0.041% | 0.028% | 0.028% |
| Spiny Dogfish | 0.038% | 0.042% | 0.012% | 0.016% | 0.010% | 0.016% | 0.009% | 0.021% | 0.022% | 0.007% | 0.019% |
| Small-Mesh Multispecies | 0.026% | 0.045% | 0.030% | 0.017% | 0.025% | 0.010% | 0.003% | 0.004% | 0.006% | 0.011% | 0.018% |
| No Federal FMP | 0.006% | 0.009% | 0.005% | 0.006% | 0.006% | 0.003% | 0.014% | 0.022% | 0.018% | 0.004% | 0.009% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.001% | 0.002% | 0.009% | 0.004% | 0.001% | 0.002% | 0.007% | 0.003% |
| Golden and Blueline Tilefish | 0.004% | 0.000% | 0.000% | 0.006% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| American Lobster | 0.001% | 0.001% | 0.001% | 0.001% | 0.002% | 0.002% | 0.001% | 0.001% | 0.000% | 0.001% | 0.001% |

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.002% | 0.000% | 0.000% | 0.000% | 0.005% | 0.000% | 0.001% |
| Northeast Multispecies | 0.000% | 0.001% | 0.001% | 0.001% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| All FMP Species¹ | 0.177% | 0.141% | 0.182% | 0.074% | 0.082% | 0.042% | 0.074% | 0.042% | 0.088% | 0.053% | 0.095% |

Source: NMFS 2022a, 2022b

¹ Excludes landings that did not occur under a federal FMP.

Table I-49 Commercial Revenue in the Combined EW 1 and EW 2 WEAs as a Percentage of Revenue in the Geographic Analysis Area by FMP and Year, 2010–2019

| FMP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Sea Scallop | 0.553% | 1.143% | 0.698% | 0.351% | 0.680% | 0.322% | 0.241% | 0.086% | 0.030% | 0.027% | 0.413% |
| Mackerel/Squid/Butterfish | 0.383% | 0.545% | 0.907% | 0.315% | 0.673% | 0.135% | 0.010% | 0.034% | 0.145% | 0.051% | 0.320% |
| Summer Flounder/Scup/Black Sea Bass | 0.316% | 0.144% | 0.133% | 0.087% | 0.146% | 0.168% | 0.130% | 0.154% | 0.448% | 0.201% | 0.193% |
| Atlantic Herring | 0.174% | 0.067% | 0.166% | 0.169% | 0.022% | 0.024% | 0.089% | 0.018% | 0.117% | 0.192% | 0.104% |
| Monkfish | 0.145% | 0.120% | 0.094% | 0.043% | 0.064% | 0.102% | 0.148% | 0.040% | 0.081% | 0.010% | 0.085% |
| Surfclam/Ocean Quahog | 0.028% | 0.004% | 0.000% | 0.054% | 0.000% | 0.003% | 0.237% | 0.223% | 0.000% | 0.092% | 0.064% |
| Bluefish | 0.029% | 0.083% | 0.044% | 0.021% | 0.027% | 0.019% | 0.016% | 0.023% | 0.099% | 0.018% | 0.038% |
| Skates | 0.042% | 0.034% | 0.023% | 0.016% | 0.022% | 0.034% | 0.033% | 0.023% | 0.049% | 0.014% | 0.029% |
| Small-Mesh Multispecies | 0.031% | 0.081% | 0.033% | 0.018% | 0.024% | 0.010% | 0.002% | 0.006% | 0.008% | 0.013% | 0.023% |
| Spiny Dogfish | 0.037% | 0.054% | 0.013% | 0.020% | 0.010% | 0.018% | 0.010% | 0.024% | 0.026% | 0.007% | 0.022% |
| No Federal FMP | 0.004% | 0.011% | 0.006% | 0.009% | 0.006% | 0.004% | 0.012% | 0.029% | 0.014% | 0.005% | 0.010% |
| Jonah Crab | 0.000% | 0.000% | 0.000% | 0.001% | 0.002% | 0.009% | 0.004% | 0.001% | 0.002% | 0.007% | 0.003% |
| American Lobster | 0.001% | 0.002% | 0.002% | 0.002% | 0.003% | 0.002% | 0.001% | 0.001% | 0.001% | 0.001% | 0.001% |
| Golden and Blueline Tilefish | 0.005% | 0.000% | 0.000% | 0.005% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Northeast Multispecies | 0.000% | 0.001% | 0.001% | 0.002% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% |
| Highly Migratory Species | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% | 0.000% | 0.001% | 0.000% | 0.000% |
| All FMP Species¹ | 0.246% | 0.528% | 0.334% | 0.154% | 0.253% | 0.118% | 0.094% | 0.045% | 0.034% | 0.023% | 0.183% |

Source: NMFS 2022a, 2022b

¹ Excludes revenue that did not occur under a federal FMP.

Table I-50 Commercial Landings (pounds) in the EW 1 WEA by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| Trawl-bottom | 76,893 | 176,754 | 311,388 | 117,492 | 206,473 | 43,712 | 17,400 | 25,177 | 92,535 | 28,874 | 109,670 |
| Trawl-midwater | 326,790 | 71,340 | 117,275 | 17,710 | 0 | 11,628 | 21,537 | 18,350 | 126,924 | 48,958 | 76,051 |
| Dredge-scallop | 88,519 | 131,348 | 50,657 | 29,485 | 32,696 | 17,606 | 14,115 | 10,737 | 3,097 | 2,611 | 38,087 |
| Dredge-clam | 23,505 | 12,888 | 6,195 | 49,595 | 20,390 | 9,853 | 61,403 | 97,844 | 0 | 12,946 | 29,462 |
| Pots | 1,038 | 1,441 | 1,264 | 3,984 | 1,467 | 1,946 | 1,244 | 822 | 810 | 1,034 | 1,505 |
| Gillnet-sink | 1,960 | 2,541 | 1,349 | 287 | 811 | 837 | 949 | 338 | 386 | 0 | 946 |
| Other gear | 36,593 | 7,598 | 10,867 | 352 | 15,434 | 11,191 | 15,345 | 1,173 | 38,733 | 1,744 | 13,903 |
| All gear | 555,298 | 403,910 | 498,995 | 218,905 | 277,271 | 96,773 | 131,993 | 154,441 | 262,485 | 96,167 | 269,624 |

Source: NMFS 2022b

Table I-51 Commercial Revenue (2019 dollars) in the EW 1 WEA by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|--------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| Dredge-scallop | \$800,001 | \$1,443,731 | \$546,689 | \$370,243 | \$423,430 | \$230,936 | \$171,461 | \$89,088 | \$27,209 | \$24,483 | \$412,727 |
| Trawl-bottom | \$134,540 | \$271,245 | \$335,755 | \$124,499 | \$246,711 | \$64,491 | \$43,885 | \$36,903 | \$85,476 | \$37,961 | \$138,147 |
| Dredge-clam | \$18,967 | \$10,195 | \$6,642 | \$42,697 | \$14,399 | \$9,230 | \$48,752 | \$89,629 | \$0 | \$11,129 | \$25,164 |
| Trawl-midwater | \$41,013 | \$7,502 | \$18,684 | \$2,371 | \$0 | \$1,548 | \$2,668 | \$3,405 | \$21,702 | \$10,500 | \$10,939 |
| Pots | \$4,240 | \$6,728 | \$4,952 | \$10,400 | \$6,395 | \$7,275 | \$4,460 | \$3,417 | \$2,781 | \$2,633 | \$5,328 |
| Gillnet-sink | \$2,586 | \$4,644 | \$2,686 | \$407 | \$1,248 | \$1,018 | \$1,173 | \$385 | \$376 | \$0 | \$1,452 |
| Other gear | \$101,944 | \$83,448 | \$19,620 | \$2,600 | \$26,775 | \$4,864 | \$5,701 | \$2,756 | \$29,178 | \$2,825 | \$27,971 |
| All gear | \$1,103,291 | \$1,827,493 | \$935,028 | \$553,217 | \$718,958 | \$319,362 | \$278,100 | \$225,583 | \$166,722 | \$89,531 | \$621,729 |

Source: NMFS 2022b

Table I-52 Commercial Landings (pounds) in the EW 2 WEA by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Trawl-midwater | 359,206 | 52,561 | 433,746 | 53,582 | 0 | 21,394 | 143,379 | 35,081 | 170,116 | 102,867 | 137,193 |
| Dredge-scallop | 169,903 | 436,933 | 279,323 | 96,705 | 158,783 | 87,862 | 75,511 | 37,548 | 14,227 | 13,057 | 136,985 |
| Trawl-bottom | 69,142 | 73,915 | 97,730 | 149,831 | 83,850 | 43,519 | 19,282 | 25,895 | 140,609 | 47,667 | 75,144 |
| Dredge-clam | 6,815 | 47,598 | 5,333 | 6,863 | 10,984 | 11,230 | 97,387 | 122,995 | 41,537 | 46,719 | 39,746 |
| Gillnet-sink | 8,213 | 9,293 | 4,414 | 1,608 | 1,979 | 9,515 | 0 | 5,058 | 13,777 | 528 | 5,439 |
| Pots | 295 | 534 | 598 | 11,442 | 2,030 | 2,172 | 725 | 577 | 570 | 1,340 | 2,028 |
| Other gear | 44,134 | 20,004 | 36,747 | 1,055 | 55,326 | 15,769 | 76,309 | 1,927 | 1,747 | 1,114 | 25,413 |
| All gear | 657,708 | 640,838 | 857,891 | 321,086 | 312,952 | 191,461 | 412,593 | 229,081 | 382,583 | 213,292 | 421,949 |

Source: NMFS 2022b

Table I-53 Commercial Revenue (2019 dollars) in the EW 2 WEA by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| Dredge-scallop | \$1,504,244 | \$4,796,517 | \$3,061,411 | \$1,224,532 | \$2,081,994 | \$1,154,643 | \$931,422 | \$336,320 | \$129,143 | \$127,561 | \$1,534,779 |
| Trawl-bottom | \$75,993 | \$148,088 | \$195,305 | \$96,005 | \$255,039 | \$80,575 | \$81,400 | \$40,418 | \$179,349 | \$76,306 | \$122,848 |
| Dredge-clam | \$5,736 | \$26,618 | \$3,291 | \$5,580 | \$10,313 | \$9,054 | \$87,203 | \$118,076 | \$34,449 | \$46,910 | \$34,723 |
| Trawl-midwater | \$42,624 | \$5,883 | \$73,509 | \$7,149 | \$0 | \$2,885 | \$17,266 | \$6,695 | \$27,666 | \$21,218 | \$20,490 |
| Gillnet-sink | \$13,881 | \$20,462 | \$8,957 | \$2,218 | \$3,000 | \$12,942 | \$0 | \$5,964 | \$12,578 | \$514 | \$8,052 |
| Pots | \$1,200 | \$2,882 | \$2,733 | \$15,806 | \$9,163 | \$7,265 | \$2,955 | \$2,117 | \$1,696 | \$3,031 | \$4,885 |
| Other gear | \$82,339 | \$223,774 | \$168,012 | \$10,205 | \$177,475 | \$13,123 | \$39,785 | \$11,167 | \$4,332 | \$3,042 | \$73,325 |
| All gear | \$1,726,017 | \$5,224,224 | \$3,513,218 | \$1,361,495 | \$2,536,984 | \$1,280,487 | \$1,160,031 | \$520,757 | \$389,213 | \$278,582 | \$1,799,101 |

Source: NMFS 2022b

Table I-54 Commercial Landings (pounds) in the Combined EW 1 and EW 2 WEAs by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|----------------|
| Trawl-midwater | 685,996 | 123,901 | 551,021 | 71,292 | 0 | 33,022 | 164,916 | 53,431 | 297,040 | 151,825 | 213,244 |
| Trawl-bottom | 146,035 | 250,669 | 409,118 | 267,323 | 290,323 | 87,231 | 36,682 | 51,072 | 233,144 | 76,541 | 184,814 |

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Dredge-scallop | 258,422 | 568,281 | 329,980 | 126,190 | 191,479 | 105,468 | 89,626 | 48,285 | 17,324 | 15,668 | 175,072 |
| Dredge-clam | 30,320 | 60,486 | 11,528 | 56,458 | 31,374 | 21,083 | 158,790 | 220,839 | 41,537 | 59,665 | 69,208 |
| Gillnet-sink | 10,173 | 11,834 | 5,763 | 1,895 | 2,790 | 10,352 | 949 | 5,396 | 14,163 | 528 | 6,384 |
| Pots | 1,333 | 1,975 | 1,862 | 15,426 | 3,497 | 4,118 | 1,969 | 1,399 | 1,380 | 2,374 | 3,533 |
| Other gear | 80,727 | 27,602 | 47,614 | 1,407 | 70,760 | 26,960 | 91,654 | 3,100 | 40,480 | 2,858 | 39,316 |
| All gear | 1,213,006 | 1,044,748 | 1,356,886 | 539,991 | 590,223 | 288,234 | 544,586 | 383,522 | 645,068 | 309,459 | 691,572 |

Source: NMFS 2022b

Table I-55 Commercial Revenue (2019 dollars) in the Combined EW 1 and EW 2 WEAs by Fishing Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| Dredge-scallop | \$2,304,245 | \$6,240,248 | \$3,608,100 | \$1,594,775 | \$2,505,424 | \$1,385,579 | \$1,102,883 | \$425,408 | \$156,352 | \$152,044 | \$1,947,506 |
| Trawl-bottom | \$210,533 | \$419,333 | \$531,060 | \$220,504 | \$501,750 | \$145,066 | \$125,285 | \$77,321 | \$264,825 | \$114,267 | \$260,994 |
| Dredge-clam | \$24,703 | \$36,813 | \$9,933 | \$48,277 | \$24,712 | \$18,284 | \$135,955 | \$207,705 | \$34,449 | \$58,039 | \$59,887 |
| Trawl-midwater | \$83,637 | \$13,385 | \$92,193 | \$9,520 | \$0 | \$4,433 | \$19,934 | \$10,100 | \$49,368 | \$31,718 | \$31,429 |
| Pots | \$5,440 | \$9,610 | \$7,685 | \$26,206 | \$15,558 | \$14,540 | \$7,415 | \$5,534 | \$4,477 | \$5,664 | \$10,213 |
| Gillnet-sink | \$16,467 | \$25,106 | \$11,643 | \$2,625 | \$4,248 | \$13,960 | \$1,173 | \$6,349 | \$12,954 | \$514 | \$9,504 |
| Other gear | \$184,283 | \$307,222 | \$187,632 | \$12,805 | \$204,250 | \$17,987 | \$45,486 | \$13,923 | \$33,510 | \$5,867 | \$101,297 |
| All gear | \$2,829,308 | \$7,051,717 | \$4,448,246 | \$1,914,712 | \$3,255,942 | \$1,599,849 | \$1,438,131 | \$746,340 | \$555,935 | \$368,113 | \$2,420,829 |

Source: NMFS 2022b

Table I-56 Commercial Landings in the EW 1 WEA as a Percentage of Landings in the Geographic Analysis Area by Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Trawl-bottom | 0.165% | 0.197% | 0.173% | 0.130% | 0.367% | 0.050% | 0.090% | 0.020% | 0.060% | 0.020% | 0.127% |
| Trawl-midwater | 0.280% | 0.060% | 0.100% | 0.015% | 0.000% | 0.010% | 0.040% | 0.025% | 0.210% | 0.175% | 0.092% |
| Dredge-scallop | 0.170% | 0.240% | 0.090% | 0.070% | 0.100% | 0.100% | 0.053% | 0.023% | 0.010% | 0.007% | 0.086% |
| Dredge-clam | 0.030% | 0.020% | 0.010% | 0.070% | 0.030% | 0.010% | 0.090% | 0.140% | 0.000% | 0.020% | 0.042% |
| Pots | 0.000% | 0.010% | 0.000% | 0.025% | 0.000% | 0.010% | 0.000% | 0.000% | 0.000% | 0.000% | 0.005% |
| Gillnet-sink | 0.000% | 0.010% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.001% |
| Other gear | 0.090% | 0.070% | 0.020% | 0.000% | 0.000% | 0.000% | 0.003% | 0.000% | 0.000% | 0.000% | 0.018% |

Source: NMFS 2022b

Table I-57 Commercial Landings in the EW 2 WEA as a Percentage of Landings in the Geographic Analysis Area by Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Trawl-bottom | 0.080% | 0.393% | 0.840% | 0.285% | 1.060% | 0.225% | 0.333% | 0.033% | 0.080% | 0.020% | 0.335% |
| Dredge-scallop | 0.320% | 0.790% | 0.510% | 0.240% | 0.500% | 0.483% | 0.277% | 0.097% | 0.037% | 0.050% | 0.330% |
| Trawl-midwater | 0.310% | 0.050% | 0.360% | 0.055% | 0.000% | 0.030% | 0.280% | 0.045% | 0.295% | 0.380% | 0.181% |
| Other gear | 0.100% | 0.285% | 0.280% | 0.030% | 0.000% | 0.000% | 0.020% | 0.030% | 0.000% | 0.000% | 0.075% |
| Gillnet-sink | 0.020% | 0.020% | 0.010% | 0.010% | 0.010% | 0.030% | 0.000% | 0.020% | 0.060% | 0.000% | 0.018% |
| Pots | 0.000% | 0.000% | 0.000% | 0.100% | 0.010% | 0.010% | 0.000% | 0.000% | 0.000% | 0.000% | 0.012% |

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Dredge-clam | 0.010% | 0.060% | 0.010% | 0.010% | 0.020% | 0.020% | 0.140% | 0.180% | 0.060% | 0.080% | 0.059% |

Source: NMFS 2022b

Table I-58 Commercial Landings in the Combined EW 1 and EW 2 WEAs as a Percentage of Landings in the Geographic Analysis Area by Gear and Year, 2010–2019

| Gear | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Trawl-bottom | 0.123% | 0.295% | 0.440% | 0.208% | 0.713% | 0.138% | 0.236% | 0.028% | 0.070% | 0.020% | 0.227% |
| Dredge-scallop | 0.245% | 0.515% | 0.300% | 0.155% | 0.300% | 0.292% | 0.165% | 0.060% | 0.023% | 0.028% | 0.208% |
| Trawl-midwater | 0.295% | 0.055% | 0.230% | 0.035% | 0.000% | 0.020% | 0.160% | 0.035% | 0.253% | 0.278% | 0.136% |
| Dredge-clam | 0.020% | 0.040% | 0.010% | 0.040% | 0.025% | 0.015% | 0.115% | 0.160% | 0.060% | 0.050% | 0.054% |
| Gillnet-sink | 0.010% | 0.015% | 0.005% | 0.005% | 0.005% | 0.015% | 0.000% | 0.010% | 0.030% | 0.000% | 0.010% |
| Pots | 0.000% | 0.005% | 0.000% | 0.063% | 0.003% | 0.010% | 0.000% | 0.000% | 0.000% | 0.000% | 0.008% |
| Other gear | 0.094% | 0.156% | 0.124% | 0.020% | 0.000% | 0.000% | 0.010% | 0.020% | 0.000% | 0.000% | 0.042% |

Source: NMFS 2022b

Table I-59 Commercial Landings (pounds) in the EW 1 WEA by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| New Bedford, Massachusetts | 151,796 | 126,301 | 123,150 | 21,895 | 27,295 | 6,230 | 19,777 | 12,286 | 35,493 | 16,800 | 54,102 |
| Cape May, New Jersey | 161,674 | 48,866 | 84,609 | 18,858 | 24,945 | 24,474 | 15,926 | 13,261 | 84,598 | 19,794 | 49,701 |
| Point Judith, Rhode Island | 3,209 | 42,391 | 68,836 | 33,126 | 134,473 | 8,830 | 834 | 1,172 | 21,701 | 6,167 | 32,074 |
| Point Pleasant, New Jersey | 49,590 | 43,591 | 25,894 | 11,591 | 20,665 | 13,994 | 20,148 | 6,887 | 21,715 | 12,849 | 22,692 |
| Atlantic City, New Jersey | 682 | 277 | 2,161 | 13,891 | 974 | 8,815 | 35,130 | 59,186 | 0 | 3,848 | 12,496 |
| Montauk, New York | 3,395 | 51,920 | 26,783 | 5,848 | 13,204 | 5,316 | 0 | 937 | 4,567 | 616 | 11,259 |
| Point Lookout, New York | 13,694 | 24,562 | 34,570 | 11,940 | 8,973 | 828 | 641 | 471 | 187 | 193 | 9,606 |
| Belford, New Jersey | 14,545 | 22,982 | 0 | 10,431 | 12,485 | 0 | 10,431 | 11,753 | 9,598 | 0 | 9,223 |
| Hampton Roads, Virginia | 20,392 | 18,091 | 8,785 | 2,250 | 3,143 | 449 | 499 | 849 | 403 | 222 | 5,508 |
| Barnegat Light, New Jersey | 6,800 | 5,775 | 4,627 | 4,501 | 3,085 | 5,543 | 2,154 | 2,132 | 875 | 0 | 3,549 |
| Other ports | 129,518 | 19,148 | 119,605 | 84,577 | 28,034 | 22,296 | 26,454 | 45,506 | 83,352 | 35,678 | 59,417 |
| All ports | 555,295 | 403,904 | 499,020 | 218,908 | 277,276 | 96,775 | 131,994 | 154,440 | 262,489 | 96,167 | 269,627 |

Source: NMFS 2022b

Table I-60 Commercial Revenue (2019 dollars) in the EW 1 WEA by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|------------------|
| New Bedford, Massachusetts | \$362,169 | \$645,817 | \$239,340 | \$108,102 | \$209,475 | \$46,303 | \$60,347 | \$62,892 | \$18,900 | \$13,758 | \$176,710 |
| Cape May, New Jersey | \$193,362 | \$358,496 | \$180,539 | \$131,993 | \$91,007 | \$37,293 | \$35,265 | \$5,913 | \$20,165 | \$6,429 | \$106,046 |
| Point Pleasant, New Jersey | \$202,236 | \$265,848 | \$115,287 | \$64,714 | \$68,460 | \$80,373 | \$63,606 | \$19,746 | \$35,199 | \$26,544 | \$94,201 |
| Hampton Roads, Virginia | \$188,265 | \$192,781 | \$86,203 | \$22,146 | \$40,118 | \$4,068 | \$5,528 | \$6,461 | \$3,123 | \$995 | \$54,969 |
| Point Judith, Rhode Island | \$4,850 | \$61,575 | \$82,994 | \$41,973 | \$169,480 | \$12,289 | \$3,903 | \$2,826 | \$22,901 | \$7,486 | \$41,028 |
| Barnegat Light, New Jersey | \$36,654 | \$33,763 | \$38,427 | \$30,604 | \$30,581 | \$61,276 | \$16,358 | \$10,832 | \$3,511 | \$0 | \$26,201 |
| Point Lookout, New York | \$27,189 | \$51,902 | \$44,275 | \$21,794 | \$16,915 | \$3,285 | \$2,276 | \$1,913 | \$827 | \$708 | \$17,108 |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|---------------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| Montauk, New York | \$5,107 | \$77,020 | \$36,641 | \$7,393 | \$14,611 | \$7,281 | \$0 | \$1,453 | \$7,399 | \$953 | \$15,786 |
| Atlantic City, New Jersey | \$597 | \$416 | \$2,170 | \$15,042 | \$480 | \$8,540 | \$29,772 | \$61,591 | \$0 | \$3,763 | \$12,237 |
| Belford, New Jersey | \$22,592 | \$28,152 | \$0 | \$10,010 | \$13,290 | \$0 | \$13,592 | \$10,751 | \$8,514 | \$0 | \$10,690 |
| Other ports | \$60,268 | \$111,719 | \$109,151 | \$99,447 | \$64,539 | \$58,650 | \$47,450 | \$41,204 | \$46,185 | \$28,898 | \$66,751 |
| All ports | \$1,103,289 | \$1,827,489 | \$935,027 | \$553,218 | \$718,956 | \$319,358 | \$278,097 | \$225,582 | \$166,724 | \$89,534 | \$621,727 |

Source: NMFS 2022b

Table I-61 Commercial Landings (pounds) in the EW 2 WEA by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| New Bedford, Massachusetts | 326,182 | 302,875 | 470,887 | 53,828 | 82,285 | 19,577 | 93,970 | 44,172 | 47,228 | 37,144 | 147,815 |
| Cape May, New Jersey | 69,503 | 132,329 | 144,638 | 41,946 | 46,585 | 55,103 | 62,471 | 24,953 | 108,347 | 53,839 | 73,971 |
| Point Pleasant, New Jersey | 28,913 | 44,988 | 73,230 | 36,149 | 35,842 | 41,145 | 31,636 | 21,172 | 86,756 | 43,180 | 44,301 |
| Barnegat Light, New Jersey | 16,720 | 16,230 | 29,793 | 26,929 | 13,271 | 20,569 | 26,054 | 7,386 | 7,115 | 0 | 16,407 |
| Hampton Roads Area, Virginia | 18,788 | 59,284 | 45,886 | 5,123 | 19,926 | 1,250 | 1,270 | 7,100 | 1,352 | 655 | 16,063 |
| Point Judith, Rhode Island | 3,614 | 13,937 | 14,997 | 10,640 | 59,402 | 14,001 | 3,197 | 2,022 | 17,182 | 8,445 | 14,744 |
| Atlantic City, New Jersey | 1,690 | 2,677 | 413 | 3,020 | 9,170 | 5,041 | 41,995 | 48,749 | 10,098 | 8,944 | 13,180 |
| North Kingstown, Rhode Island | 55,320 | 1,912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,723 |
| Montauk, New York | 3,956 | 13,777 | 9,806 | 1,402 | 6,764 | 4,790 | 628 | 1,374 | 6,823 | 1,485 | 5,081 |
| Newport, Rhode Island | 0 | 12,282 | 0 | 2,396 | 0 | 0 | 0 | 0 | 0 | 0 | 1,468 |
| Other ports | 133,022 | 40,549 | 68,238 | 139,651 | 39,708 | 29,982 | 151,374 | 72,157 | 97,685 | 59,594 | 83,196 |
| All ports | 657,708 | 640,840 | 857,888 | 321,084 | 312,953 | 191,458 | 412,595 | 229,085 | 382,586 | 213,286 | 421,948 |

Source: NMFS 2022b

Table I-62 Commercial Revenue (2019 dollars) in the EW 2 WEA by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| New Bedford, Massachusetts | \$892,645 | \$2,522,955 | \$1,162,867 | \$237,289 | \$750,844 | \$170,171 | \$362,285 | \$158,705 | \$58,914 | \$45,184 | \$636,186 |
| Cape May, New Jersey | \$288,977 | \$1,344,137 | \$626,297 | \$304,957 | \$292,855 | \$290,801 | \$81,749 | \$25,860 | \$33,313 | \$20,185 | \$330,913 |
| Point Pleasant, New Jersey | \$168,436 | \$305,867 | \$714,407 | \$339,674 | \$367,369 | \$442,839 | \$330,842 | \$93,447 | \$160,807 | \$121,972 | \$304,566 |
| Hampton Roads Area, Virginia | \$170,497 | \$614,799 | \$474,119 | \$52,443 | \$263,103 | \$10,668 | \$13,682 | \$61,894 | \$11,246 | \$3,342 | \$167,579 |
| Barnegat Light, New Jersey | \$95,396 | \$107,631 | \$293,311 | \$228,107 | \$152,486 | \$167,568 | \$141,716 | \$31,691 | \$25,335 | \$0 | \$124,324 |
| Point Judith, Rhode Island | \$6,986 | \$24,556 | \$19,128 | \$19,817 | \$315,340 | \$20,106 | \$14,820 | \$9,692 | \$16,236 | \$9,664 | \$45,635 |
| Atlantic City, New Jersey | \$1,292 | \$2,548 | \$593 | \$2,895 | \$9,118 | \$5,019 | \$44,016 | \$50,481 | \$10,124 | \$8,612 | \$13,470 |
| Montauk, New York | \$8,385 | \$22,867 | \$17,166 | \$1,710 | \$7,792 | \$7,700 | \$827 | \$1,984 | \$9,427 | \$2,204 | \$8,006 |
| Newport, Rhode Island | \$0 | \$6,160 | \$0 | \$32,138 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,830 |
| North Kingstown, Rhode Island | \$29,580 | \$5,829 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,541 |
| Other ports | \$63,818 | \$266,872 | \$205,327 | \$142,464 | \$378,073 | \$165,614 | \$170,092 | \$86,998 | \$63,814 | \$67,422 | \$161,049 |
| All ports | \$1,726,012 | \$5,224,221 | \$3,513,215 | \$1,361,494 | \$2,536,980 | \$1,280,486 | \$1,160,029 | \$520,752 | \$389,216 | \$278,585 | \$1,799,099 |

Source: NMFS 2022b

Table I-63 Commercial Landings (pounds) in the Combined EW 1 and EW 2 WEAs by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| New Bedford, Massachusetts | 477,978 | 429,176 | 594,037 | 75,723 | 109,580 | 25,807 | 113,747 | 56,458 | 82,721 | 53,944 | 201,917 |
| Cape May-Wildwood, New Jersey | 231,177 | 181,195 | 229,247 | 60,804 | 71,530 | 79,577 | 78,397 | 38,214 | 192,945 | 73,633 | 123,672 |
| Point Pleasant, New Jersey | 78,503 | 88,579 | 99,124 | 47,740 | 56,507 | 55,139 | 51,784 | 28,059 | 108,471 | 56,029 | 66,994 |
| Point Judith, Rhode Island | 6,823 | 56,328 | 83,833 | 43,766 | 193,875 | 22,831 | 4,031 | 3,194 | 38,883 | 14,612 | 46,818 |
| Atlantic City, New Jersey | 2,372 | 2,954 | 2,574 | 16,911 | 10,144 | 13,856 | 77,125 | 107,935 | 10,098 | 12,792 | 25,676 |
| Hampton Roads Area, Virginia | 39,180 | 77,375 | 54,671 | 7,373 | 23,069 | 1,699 | 1,769 | 7,949 | 1,755 | 877 | 21,572 |
| Barneгат Light, New Jersey | 23,520 | 22,005 | 34,420 | 31,430 | 16,356 | 26,112 | 28,208 | 9,518 | 7,990 | 0 | 19,956 |
| Montauk, New York | 7,351 | 65,697 | 36,589 | 7,250 | 19,968 | 10,106 | 628 | 2,311 | 11,390 | 2,101 | 16,339 |
| Belford, New Jersey | 17,610 | 28,684 | 0 | 11,768 | 15,178 | 0 | 14,734 | 11,753 | 13,983 | 0 | 11,371 |
| North Kingstown, Rhode Island | 76,802 | 2,915 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,972 |
| Other ports | 251,687 | 89,836 | 222,413 | 237,227 | 74,022 | 53,106 | 174,166 | 118,134 | 176,839 | 95,465 | 149,290 |
| All ports | 1,213,003 | 1,044,744 | 1,356,908 | 539,992 | 590,229 | 288,233 | 544,589 | 383,525 | 645,075 | 309,453 | 691,575 |

Source: NMFS 2022b

Table I-64 Commercial Revenue (2019 dollars) in the Combined EW 1 and EW 2 WEAs by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|
| New Bedford, Massachusetts | \$1,254,814 | \$3,168,772 | \$1,402,207 | \$345,391 | \$960,319 | \$216,474 | \$422,632 | \$221,597 | \$77,814 | \$58,942 | \$812,896 |
| Cape May-Wildwood, New Jersey | \$482,339 | \$1,702,633 | \$806,836 | \$436,950 | \$383,862 | \$328,094 | \$117,014 | \$31,773 | \$53,478 | \$26,614 | \$436,959 |
| Point Pleasant, New Jersey | \$370,672 | \$571,715 | \$829,694 | \$404,388 | \$435,829 | \$523,212 | \$394,448 | \$113,193 | \$196,006 | \$148,516 | \$398,767 |
| Hampton Roads Area, Virginia | \$358,762 | \$807,580 | \$560,322 | \$74,589 | \$303,221 | \$14,736 | \$19,210 | \$68,355 | \$14,369 | \$4,337 | \$222,548 |
| Barneгат Light, New Jersey | \$132,050 | \$141,394 | \$331,738 | \$258,711 | \$183,067 | \$228,844 | \$158,074 | \$42,523 | \$28,846 | \$0 | \$150,525 |
| Point Judith, Rhode Island | \$11,836 | \$86,131 | \$102,122 | \$61,790 | \$484,820 | \$32,395 | \$18,723 | \$12,518 | \$39,137 | \$17,150 | \$86,662 |
| Atlantic City, New Jersey | \$1,889 | \$2,964 | \$2,763 | \$17,937 | \$9,598 | \$13,559 | \$73,788 | \$112,072 | \$10,124 | \$12,375 | \$25,707 |
| Montauk, New York | \$13,492 | \$99,887 | \$53,807 | \$9,103 | \$22,403 | \$14,981 | \$827 | \$3,437 | \$16,826 | \$3,157 | \$23,792 |
| Belford, New Jersey | \$30,039 | \$39,438 | \$0 | \$12,072 | \$17,118 | \$0 | \$22,243 | \$10,751 | \$13,048 | \$0 | \$14,471 |
| North Kingstown, Rhode Island | \$41,107 | \$7,261 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,837 |
| Other ports | \$132,301 | \$423,935 | \$358,753 | \$293,781 | \$455,699 | \$227,549 | \$211,167 | \$130,115 | \$106,292 | \$97,028 | \$243,662 |
| All ports | \$2,829,301 | \$7,051,710 | \$4,448,242 | \$1,914,712 | \$3,255,936 | \$1,599,844 | \$1,438,126 | \$746,334 | \$555,940 | \$368,119 | \$2,420,826 |

Source: NMFS 2022b

Table I-65 Commercial Landings in the EW 1 WEA as a Percentage of Landings in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Belford, New Jersey ¹ | -- | -- | -- | 0.497% | 0.178% | 0.000% | 0.417% | 0.230% | 0.196% | 0.000% | 0.217% |
| Cape May, New Jersey | 0.375% | 0.124% | 0.304% | 0.092% | 0.050% | 0.032% | 0.034% | 0.013% | 0.084% | 0.021% | 0.113% |
| Point Pleasant, New Jersey | 0.237% | 0.285% | 0.136% | 0.075% | 0.085% | 0.057% | 0.077% | 0.018% | 0.050% | 0.034% | 0.106% |
| Montauk, New York | 0.026% | 0.399% | 0.181% | 0.045% | 0.112% | 0.046% | 0.000% | 0.009% | 0.040% | 0.005% | 0.086% |
| Point Judith, Rhode Island | 0.009% | 0.104% | 0.148% | 0.061% | 0.235% | 0.019% | 0.002% | 0.003% | 0.046% | 0.013% | 0.064% |
| Atlantic City, New Jersey | 0.003% | 0.001% | 0.008% | 0.051% | 0.003% | 0.034% | 0.145% | 0.240% | 0.000% | 0.016% | 0.050% |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Barnegat Light, New Jersey | 0.080% | 0.065% | 0.060% | 0.052% | 0.043% | 0.088% | 0.030% | 0.028% | 0.014% | 0.000% | 0.046% |
| New Bedford, Massachusetts | 0.114% | 0.108% | 0.086% | 0.017% | 0.019% | 0.005% | 0.019% | 0.011% | 0.031% | 0.015% | 0.042% |
| Hampton Roads, Virginia | 0.127% | 0.099% | 0.065% | 0.014% | 0.021% | 0.004% | 0.004% | 0.005% | 0.003% | 0.001% | 0.034% |
| Other ports | 0.018% | 0.002% | 0.015% | 0.013% | 0.004% | 0.003% | 0.004% | 0.007% | 0.012% | 0.005% | 0.008% |
| All ports | 0.053% | 0.033% | 0.043% | 0.021% | 0.026% | 0.009% | 0.013% | 0.015% | 0.025% | 0.010% | 0.025% |

Source: NMFS 2022a, 2022b

¹ NOAA coastwide landings for Belford, New Jersey are unavailable from 2010–2012.

Table I-66 Commercial Revenue in the EW 1 WEA as a Percentage of Revenue in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Point Pleasant, New Jersey | 0.887% | 0.992% | 0.409% | 0.280% | 0.265% | 0.285% | 0.198% | 0.056% | 0.109% | 0.075% | 0.356% |
| Belford, New Jersey ¹ | -- | -- | -- | 0.556% | 0.475% | 0.000% | 0.453% | 0.398% | 0.448% | 0.000% | 0.333% |
| Cape May, New Jersey | 0.239% | 0.349% | 0.252% | 0.374% | 0.154% | 0.052% | 0.042% | 0.007% | 0.030% | 0.007% | 0.151% |
| Barnegat Light, New Jersey | 0.142% | 0.100% | 0.128% | 0.121% | 0.119% | 0.238% | 0.061% | 0.044% | 0.014% | 0.000% | 0.097% |
| Point Judith, Rhode Island | 0.015% | 0.153% | 0.195% | 0.090% | 0.336% | 0.027% | 0.007% | 0.005% | 0.036% | 0.011% | 0.087% |
| Montauk, New York | 0.029% | 0.410% | 0.173% | 0.042% | 0.086% | 0.046% | 0.000% | 0.010% | 0.043% | 0.005% | 0.084% |
| Hampton Roads, Virginia | 0.250% | 0.218% | 0.134% | 0.042% | 0.077% | 0.007% | 0.009% | 0.011% | 0.006% | 0.002% | 0.076% |
| Atlantic City, New Jersey | 0.003% | 0.002% | 0.010% | 0.070% | 0.002% | 0.044% | 0.151% | 0.331% | 0.000% | 0.022% | 0.064% |
| New Bedford, Massachusetts | 0.118% | 0.175% | 0.058% | 0.029% | 0.064% | 0.014% | 0.018% | 0.016% | 0.004% | 0.003% | 0.050% |
| Other ports | 0.020% | 0.028% | 0.024% | 0.022% | 0.013% | 0.010% | 0.008% | 0.007% | 0.008% | 0.005% | 0.015% |
| All ports | 0.121% | 0.159% | 0.078% | 0.051% | 0.065% | 0.027% | 0.022% | 0.018% | 0.013% | 0.006% | 0.056% |

Source: NMFS 2022a, 2022b

¹ NOAA coastwide landings for Belford, New Jersey, are unavailable from 2010–2012.

Table I-67 Commercial Landings in the EW 2 WEA as a Percentage of Landings in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Barnegat Light, New Jersey | 0.197% | 0.182% | 0.387% | 0.313% | 0.187% | 0.326% | 0.362% | 0.097% | 0.113% | 0.000% | 0.216% |
| Point Pleasant, New Jersey | 0.138% | 0.294% | 0.383% | 0.235% | 0.148% | 0.169% | 0.120% | 0.056% | 0.200% | 0.116% | 0.186% |
| Cape May, New Jersey | 0.161% | 0.335% | 0.520% | 0.206% | 0.093% | 0.071% | 0.134% | 0.025% | 0.107% | 0.057% | 0.171% |
| New Bedford, Massachusetts | 0.245% | 0.260% | 0.329% | 0.041% | 0.059% | 0.016% | 0.088% | 0.040% | 0.042% | 0.032% | 0.115% |
| Hampton Roads Area, Virginia | 0.117% | 0.324% | 0.340% | 0.031% | 0.136% | 0.011% | 0.010% | 0.046% | 0.009% | 0.004% | 0.103% |
| Atlantic City, New Jersey | 0.007% | 0.012% | 0.002% | 0.011% | 0.031% | 0.019% | 0.173% | 0.197% | 0.041% | 0.038% | 0.053% |
| Montauk, New York | 0.031% | 0.106% | 0.066% | 0.011% | 0.057% | 0.041% | 0.005% | 0.014% | 0.060% | 0.013% | 0.040% |
| Point Judith, Rhode Island | 0.010% | 0.034% | 0.032% | 0.019% | 0.104% | 0.030% | 0.006% | 0.005% | 0.036% | 0.018% | 0.029% |
| Newport, Rhode Island | 0.000% | 0.219% | 0.000% | 0.030% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.025% |
| Other ports | 0.019% | 0.005% | 0.009% | 0.022% | 0.006% | 0.004% | 0.023% | 0.011% | 0.015% | 0.009% | 0.012% |
| All ports | 0.061% | 0.060% | 0.080% | 0.033% | 0.030% | 0.018% | 0.042% | 0.022% | 0.036% | 0.021% | 0.040% |

Source: NMFS 2022a, 2022b

¹ NOAA coastwide landings for North Kingstown, Rhode Island are unavailable from 2010.

Table I-68 Commercial Revenue in the EW 2 WEA as a Percentage of Revenue in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Point Pleasant, New Jersey | 0.739% | 1.141% | 2.533% | 1.470% | 1.424% | 1.570% | 1.031% | 0.265% | 0.496% | 0.345% | 1.101% |
| Barnegat Light, New Jersey | 0.370% | 0.318% | 0.978% | 0.902% | 0.596% | 0.652% | 0.527% | 0.128% | 0.104% | 0.000% | 0.457% |
| Cape May, New Jersey | 0.357% | 1.309% | 0.873% | 0.864% | 0.496% | 0.406% | 0.097% | 0.032% | 0.050% | 0.022% | 0.451% |
| Hampton Roads Area, Virginia | 0.226% | 0.696% | 0.740% | 0.100% | 0.505% | 0.019% | 0.022% | 0.107% | 0.021% | 0.006% | 0.244% |
| New Bedford, Massachusetts | 0.292% | 0.684% | 0.283% | 0.063% | 0.228% | 0.053% | 0.111% | 0.041% | 0.014% | 0.010% | 0.178% |
| Point Judith, Rhode Island | 0.022% | 0.061% | 0.045% | 0.042% | 0.626% | 0.044% | 0.027% | 0.017% | 0.025% | 0.015% | 0.092% |
| Atlantic City, New Jersey | 0.007% | 0.015% | 0.003% | 0.014% | 0.041% | 0.026% | 0.223% | 0.271% | 0.056% | 0.050% | 0.071% |
| Montauk, New York | 0.047% | 0.122% | 0.081% | 0.010% | 0.046% | 0.048% | 0.005% | 0.013% | 0.054% | 0.012% | 0.044% |
| Newport, Rhode Island | 0.000% | 0.082% | 0.000% | 0.225% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.000% | 0.031% |
| Other ports | 0.022% | 0.070% | 0.048% | 0.033% | 0.079% | 0.029% | 0.028% | 0.016% | 0.012% | 0.011% | 0.035% |
| All ports | 0.194% | 0.475% | 0.307% | 0.130% | 0.236% | 0.108% | 0.093% | 0.042% | 0.031% | 0.020% | 0.164% |

Source: NMFS 2022a, 2022b

¹ NOAA coastwide revenue for North Kingstown, Rhode Island are unavailable from 2010

Table I-69 Commercial Landings in the Combined EW 1 and EW 2 WEAs as a Percentage of Landings in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Point Pleasant, New Jersey | 0.376% | 0.579% | 0.519% | 0.310% | 0.234% | 0.226% | 0.197% | 0.075% | 0.251% | 0.150% | 0.292% |
| Cape May-Wildwood, New Jersey | 0.536% | 0.459% | 0.825% | 0.298% | 0.143% | 0.103% | 0.168% | 0.038% | 0.191% | 0.078% | 0.284% |
| Belford, New Jersey | -- | -- | -- | 0.560% | 0.217% | 0.000% | 0.589% | 0.230% | 0.285% | 0.000% | 0.269% |
| Barnegat Light, New Jersey | 0.277% | 0.247% | 0.447% | 0.365% | 0.230% | 0.414% | 0.392% | 0.125% | 0.127% | 0.000% | 0.263% |
| New Bedford, Massachusetts | 0.358% | 0.368% | 0.415% | 0.058% | 0.078% | 0.021% | 0.107% | 0.051% | 0.073% | 0.047% | 0.158% |
| Hampton Roads Area, Virginia | 0.243% | 0.423% | 0.405% | 0.045% | 0.157% | 0.015% | 0.014% | 0.051% | 0.012% | 0.005% | 0.137% |
| Montauk, New York | 0.057% | 0.505% | 0.247% | 0.055% | 0.169% | 0.087% | 0.005% | 0.023% | 0.101% | 0.018% | 0.127% |
| Atlantic City, New Jersey | 0.010% | 0.013% | 0.009% | 0.062% | 0.034% | 0.053% | 0.317% | 0.437% | 0.041% | 0.054% | 0.103% |
| Point Judith, Rhode Island | 0.019% | 0.138% | 0.181% | 0.080% | 0.338% | 0.049% | 0.008% | 0.007% | 0.082% | 0.030% | 0.093% |
| Other ports | 0.036% | 0.012% | 0.030% | 0.036% | 0.011% | 0.008% | 0.026% | 0.018% | 0.027% | 0.015% | 0.022% |
| All ports | 0.112% | 0.095% | 0.126% | 0.056% | 0.057% | 0.027% | 0.056% | 0.037% | 0.061% | 0.031% | 0.066% |

Source: NMFS 2022a, 2022b

Table I-70 Commercial Revenue in the Combined EW 1 and EW 2 WEAs as a Percentage of Revenue in the Geographic Analysis Area by Port and Year, 2010–2019

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| Point Pleasant, New Jersey | 1.626% | 2.133% | 2.942% | 1.751% | 1.689% | 1.855% | 1.229% | 0.321% | 0.605% | 0.420% | 1.457% |
| Cape May-Wildwood, New Jersey | 0.595% | 1.658% | 1.125% | 1.238% | 0.651% | 0.458% | 0.138% | 0.039% | 0.081% | 0.030% | 0.601% |
| Barnegat Light, New Jersey | 0.512% | 0.418% | 1.106% | 1.023% | 0.715% | 0.890% | 0.588% | 0.172% | 0.119% | 0.000% | 0.554% |
| Belford, New Jersey | -- | -- | -- | 0.671% | 0.611% | 0.000% | 0.741% | 0.398% | 0.687% | 0.000% | 0.444% |
| Hampton Roads Area, Virginia | 0.476% | 0.915% | 0.874% | 0.142% | 0.582% | 0.026% | 0.031% | 0.118% | 0.026% | 0.008% | 0.320% |
| New Bedford, Massachusetts | 0.410% | 0.859% | 0.341% | 0.091% | 0.292% | 0.067% | 0.129% | 0.057% | 0.018% | 0.013% | 0.228% |
| Point Judith, Rhode Island | 0.037% | 0.214% | 0.240% | 0.132% | 0.962% | 0.070% | 0.034% | 0.022% | 0.061% | 0.026% | 0.180% |
| Atlantic City, New Jersey | 0.011% | 0.017% | 0.013% | 0.084% | 0.043% | 0.069% | 0.375% | 0.603% | 0.056% | 0.072% | 0.134% |

| Port and State | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Annual Average |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------|
| Montauk, New York | 0.076% | 0.531% | 0.254% | 0.051% | 0.133% | 0.094% | 0.005% | 0.023% | 0.097% | 0.018% | 0.128% |
| Other ports | 0.045% | 0.109% | 0.081% | 0.067% | 0.095% | 0.039% | 0.035% | 0.024% | 0.020% | 0.016% | 0.059% |
| All ports | 0.316% | 0.638% | 0.389% | 0.182% | 0.303% | 0.135% | 0.115% | 0.060% | 0.044% | 0.027% | 0.221% |

Source: NMFS 2022a, 2022b

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Table I-71 For-Hire Recreational Fishing Effort in Terms of Angler Trips and Vessel Trips in the EW 1 WEA, 2008–2018

| Year | Angler Trips | | | Vessel Trips | | |
|----------------|----------------|------------------|------------|----------------|------------------|-----------|
| | New York Ports | New Jersey Ports | All Ports | New York Ports | New Jersey Ports | All Ports |
| 2008 | 229 | 43 | 272 | 11 | 1 | 12 |
| 2009 | 21 | 0 | 21 | 3 | 0 | 3 |
| 2010 | 373 | 5 | 378 | 48 | 1 | 49 |
| 2011 | 174 | 26 | 200 | 7 | 2 | 9 |
| 2012 | 79 | 152 | 231 | 4 | 5 | 9 |
| 2013 | 108 | 0 | 108 | 5 | 0 | 5 |
| 2014 | 330 | 59 | 389 | 11 | 3 | 14 |
| 2015 | 253 | 32 | 285 | 9 | 2 | 11 |
| 2016 | 201 | 91 | 292 | 9 | 3 | 12 |
| 2017 | 330 | 22 | 352 | 13 | 2 | 15 |
| 2018 | 1,792 | 116 | 1,908 | 70 | 6 | 76 |
| Average | 354 | 50 | 403 | 17 | 2 | 20 |

Source: NMFS 2022b

Notes: Angler trips is the number of passengers reported on Vessel Trip Reports for party and charter vessels.

Table I-72 For-Hire Recreational Fishing Effort in Terms of Angler Trips and Vessel Trips in the EW 2 WEA, 2008–2018

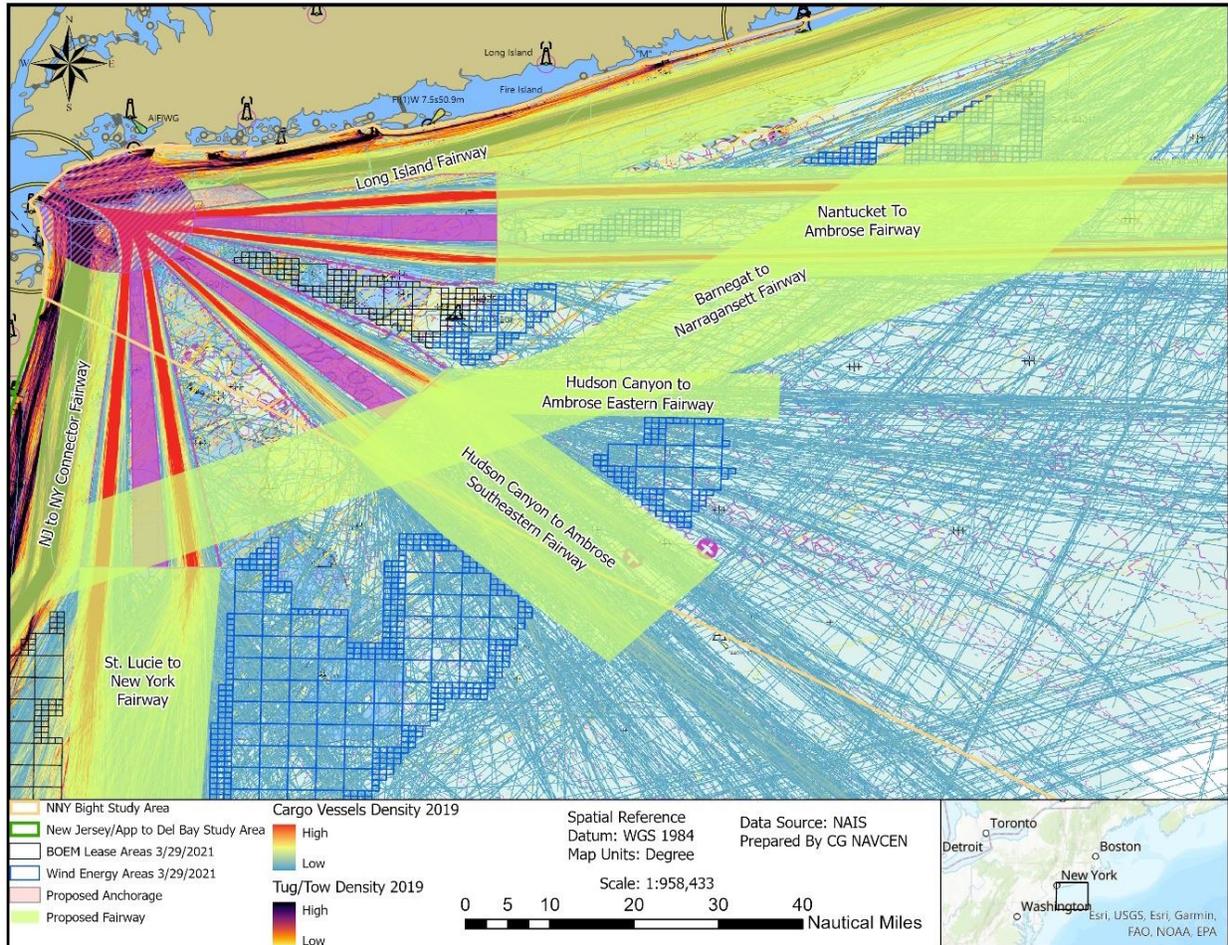
| Year | Angler Trips | | | Vessel Trips | | |
|----------------|----------------|------------------|------------|----------------|------------------|-----------|
| | New York Ports | New Jersey Ports | All Ports | New York Ports | New Jersey Ports | All Ports |
| 2008 | 29 | 0 | 29 | 1 | 0 | 1 |
| 2009 | 4 | 0 | 4 | 1 | 0 | 1 |
| 2010 | 41 | 144 | 185 | 3 | 4 | 7 |
| 2011 | 204 | 18 | 222 | 12 | 1 | 13 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 219 | 277 | 496 | 7 | 15 | 22 |
| 2014 | 94 | 17 | 111 | 2 | 2 | 4 |
| 2015 | 78 | 14 | 92 | 6 | 1 | 7 |
| 2016 | 94 | 0 | 94 | 4 | 0 | 4 |
| 2017 | 22 | 93 | 115 | 1 | 4 | 5 |
| 2018 | 806 | 23 | 829 | 19 | 3 | 22 |
| Average | 145 | 53 | 198 | 5 | 3 | 8 |

Source: NMFS 2022b

Notes: Angler trips is the number of passengers reported on Vessel Trip Reports for party and charter vessels.

I.5. Navigation and Vessel Traffic

The recently published *Northern New York Bight Port Access Route Study: Final Report* (USCG 2021) analyzed an area that includes the approaches to the Port of New York and New Jersey and based on Marine Planning Guidelines and recommended that multiple shipping fairways and one federal anchorage be established within the PARS area. USCG is pursuing a rulemaking to establish the shipping safety fairways and the Northern New York Bight PARS final report will be considered during that process.



Source: USCG 2021

Figure I-6 U.S. Coast Guard Proposed Fairways and Anchorage Area

I.6. References Cited

I.6.1 Climate and Meteorology

- Blake, E. S., T. B. Kimberlain, R. J. Berg, J. P. Cangialosi, and J. L. Beven II. 2013. Tropical cyclone report Hurricane Sandy (AL182012). February 12, 2013. Available: https://www.nhc.noaa.gov/data/tcr/AL182012_Sandy.pdf. Accessed: November 8, 2021.
- Bureau of Ocean Energy Management (BOEM). 2021. *Vineyard Wind 1 Offshore Wind Energy Project Final Environmental Impact Statement*. OCS EIS/EA BOEM 2021-0012. Available: <https://www.boem.gov/vineyard-wind>. Accessed: November 8, 2021.
- Christiansen, M. B., and C. Hasager. 2005. Wake Effects of Large Offshore Wind Farms Identified from Satellite SAR. *Remote Sensing of Environment* 98:251–268. doi: 10.1016/j.rse.2005.07.009. Available: <https://www.sciencedirect.com/science/article/abs/pii/S0034425705002476>. Accessed: October 20, 2020.
- Díaz, Juan P., Francisco J. Expósito, Juan C. Pérez, and Albano González. 2019. Long-Term Trends in Marine Boundary Layer Properties over the Atlantic Ocean. *Journal of Climate* 34(22):2991–3004. Available: <https://journals.ametsoc.org/view/journals/clim/32/10/jcli-d-18-0219.1.xml>. Accessed: November 8, 2021.
- Dupigny-Giroux, L. A., E. L. Mecray, M. D. Lemcke-Stampone, G. A. Hodgkins, E. E. Lentz, K. E. Mills, E. D. Lane, R. Miller, D. Y. Hollinger, W. D. Solecki, G. A. Wellenius, P. E. Sheffield, A. B. MacDonald, and C. Caldwell. 2018. Chapter 18: Northeast. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D. R., C. W. Avery, D. R. Easterling, K. E. Kunkel, K. L. M. Lewis, T. K. Maycock, and B. C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 669–742. Chapter 18. doi: 10.7930/NCA4.2018.CH18. Available: <https://nca2018.globalchange.gov/chapter/northeast>. Accessed: November 8, 2021.
- Empire Offshore Wind, LLC (Empire). 2022. *Empire Offshore Wind: Empire Wind Project (EW1 and EW2), Construction and Operations Plan*. June. Available: <https://www.boem.gov/renewable-energy/empire-wind-construction-and-operations-plan>.
- Empire Offshore Wind, LLC (Empire). 2022. Citing Kjeller Vindteknikk. 2020. Northeast coast, USA – Hindcast simulation of offshore wind conditions.
- Empire Offshore Wind, LLC (Empire). 2022. Citing National Oceanic and Atmospheric Administration (NOAA). 2018b. National Data Buoy Center, Station 44065. 2008–2018. Available: https://www.ndbc.noaa.gov/station_history.php?station=44065. Accessed: September 4, 2019.
- Empire Offshore Wind, LLC (Empire). 2022. Citing National Oceanic and Atmospheric Administration (NOAA). 2018c. National Data Buoy Center, Station 44025. 2007–2018. Available: https://www.ndbc.noaa.gov/station_history.php?station=44025. Accessed: September 11, 2019.
- Fuhlbrügge, S., K. Krüger, B. Quack, E. Atlas, H. Hepach, and F. Ziska. 2013. Impact of the marine atmospheric boundary layer conditions on VLSL abundances in the eastern tropical and subtropical North Atlantic Ocean. *Atmos. Chem. Phys.* 13:6345–6357. Available: <https://acp.copernicus.org/articles/13/6345/2013/acp-13-6345-2013.pdf>. Accessed: November 8, 2021.

- Hayhoe, K., D. J. Wuebbles, D. R. Easterling, D. W. Fahey, S. Doherty, J. Kossin, W. Sweet, R. Vose, and M. Wehner. 2018. Chapter 2: Our Changing Climate. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D. R., C. W. Avery, D. R. Easterling, K. E. Kunkel, K. L. M. Lewis, T. K. Maycock, and B. C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 72–144. Chapter 2 doi: 10.7930/NCA4.2018.CH2. Available: <https://nca2018.globalchange.gov/chapter/climate>. Accessed: November 8, 2021.
- Holzworth, George C. 1972. *Mixing Heights, Wind Speeds, and Potential for Urban Air Pollution throughout the Contiguous United States*. U.S. Environmental Protection Agency, Office of Air Programs, Research Triangle Park, North Carolina. January 1972. Available: <https://www.nrc.gov/docs/ML1408/ML14084A177.pdf>. Accessed: November 8, 2021.
- International Panel on Climate Change (IPCC). 2021. Summary for Policymakers. In: *Climate Change 2021: The Physical Science Basis*. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press. Available: <https://www.ipcc.ch/report/ar6/wg1/#SPM>. Accessed: November 8, 2021.
- McAdie, C. J., C. W. Landsea, C. J. Neumann, J. E. David, E. S. Blake, and G. R. Hammer. 2009. *Tropical cyclones of the north Atlantic Ocean, 1851–2006* (with 2007 and 2008 track maps included). Historical Climatology Series 6-2. Prepared by the National Climatic Data Center, Asheville, NC, in cooperation with the National Hurricane Center, Miami, FL. Available: https://www.nhc.noaa.gov/pdf/TC_Book_Atl_1851-2006_lowres.pdf. Accessed: November 8, 2021.
- National Oceanic and Atmospheric Administration (NOAA). 2021a. “Station 44025 (LLNR 830) – Long Island – 30 NM South of Islip, NY.” National Oceanic and Atmospheric Administration’s National Data Buoy Center. Page last modified: August 10, 2021. Available: https://www.ndbc.noaa.gov/station_page.php?station=44025. Accessed: November 5, 2021.
- National Oceanic and Atmospheric Administration (NOAA). 2021b. “Station 44065 (LLNR 725) – New York Harbor Entrance – 15 NM SE of Breezy Point, NY.” National Oceanic and Atmospheric Administration’s National Data Buoy Center. Page last modified: August 10, 2021. Available: https://www.ndbc.noaa.gov/station_page.php?station=44065. Accessed: November 5, 2021.
- National Oceanic and Atmospheric Administration (NOAA). 2021c. “Historical Hurricane Mapper.” Page last modified: May 21, 2021. Available: <https://coast.noaa.gov/hurricanes/>. Accessed: November 5, 2021.
- National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information. 2021a. “Climate at a Glance: Divisional Mapping.” Published November 2021. Available: <https://www.ncdc.noaa.gov/cag/divisional/mapping>. Accessed: November 8, 2021.
- National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information. 2021b. “Climate at a Glance: Divisional Time Series Temperature.” Published October 2021. Available: <https://www.ncdc.noaa.gov/cag/divisional/time-series>. Accessed: November 5, 2021.

- National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information. 2021c. “Climate at a Glance: Divisional Time Series Precipitation.” Published October 2021. Available: <https://www.ncdc.noaa.gov/cag/divisional/time-series>. Accessed: November 5, 2021.
- New Jersey Department of Environmental Protection (NJDEP). 2010. Ocean/Wind Power Ecological Baseline Studies. Available: https://www.nj.gov/dep/dsr/ocean-wind/Ocean%20Wind%20Power%20Ecological%20Baseline%20Studies_Volume%20One.pdf. Accessed: November 8, 2021.
- New York State Climate Action Council. 2010. *Climate Action Plan Interim Report*. Chapter 2: Climate Projections and Vulnerabilities. November 2010. Available: https://www.dec.ny.gov/docs/administration_pdf/irchap2.pdf. Accessed: November 8, 2021.
- Ramaswamy, V., J. W. Hurrell, and G. A. Meehl. 2006. Why do temperatures vary vertically (from the surface to the stratosphere) and what do we understand about why they might vary and change over time? In: *Temperature Trends in the Lower Atmosphere: Steps for Understanding and Reconciling Differences*. [T. R. Karl, S. J. Hassol, C. D. Miller, and W. L. Murray, editors.] A Report by the Climate Change Science Program and the Subcommittee on Global Change Research, Washington, DC. Available: <https://downloads.globalchange.gov/sap/sap1-1/sap1-1-final-all.pdf>. Accessed: November 8, 2021.
- Schofield, O., R. Chant, B. Cahill, R. Castelao, D. Gong, A. Kahl, J. Kohut, M. Montes-Hugo, R. Ramadurai, P. Ramey, X. Yi, and S. Glenn. 2008. The Decadal View of the Mid-Atlantic Bight from the COOLroom: Is our Coastal System Changing? *Oceanography* 21, No. 4:109–117. Available: https://tos.org/oceanography/assets/docs/21-4_schofield.pdf. Accessed: November 8, 2021.
- Siedersleben, S. K., J. K. Lundquist, A. Platis, J. Bange, K. Bärfuss, A. Lampert, B. Cañadillas, T. Neumann, and S. Emeis. 2018. Micrometeorological impacts of offshore wind farms as seen in observations and simulations. *Environ. Res. Lett.* 13 (2018) 124012. Available: <https://iopscience.iop.org/article/10.1088/1748-9326/aaea0b>. Accessed: November 8, 2021.
- Townsend, D. W., A. C. Thomas, L. M. Mayer, M.A. Thomas, and J. A. Quinlan. 2004. Oceanography of the northeast Atlantic continental shelf. In: *The Sea: The Global Coastal Ocean: Interdisciplinary Regional Studies and Syntheses*. Harvard University Press. Available: https://www.researchgate.net/publication/240641612_Oceanography_of_the_northwest_Atlantic_continental_shelf_1_W. Accessed: November 8, 2021.
- U.S. Environmental Protection Agency (USEPA). 2021 [index page date]. SCRAM Mixing Height Data. Index page: <https://www.epa.gov/scram/scram-mixing-height-data>. Data file: https://gaftp.epa.gov/Air/aqmg/SCRAM/met_files/mixing_hghts/njmix.zip. Accessed: November 8, 2021.

I.6.2 Demographics, Employment, and Economics

ArcGIS Business Analyst. 2021. ESRI Business Summary Reports.

National Ocean Economics Program. 2018. Market Data: Ocean Economy Data. Available: <http://www.oceaneconomics.org/Market/ocean/oceanEcon.asp?IC=N&dataSource=E>.

National Oceanic and Atmospheric Administration (NOAA). 2018. Quick Report Tool for Socioeconomic Data. Available: <https://coast.noaa.gov/quickreport/#/index.html>. Accessed: January 6, 2022.

New York State Department of Labor. 2020. Quarterly Census of Employment and Wages. Available: <https://statistics.labor.ny.gov/lscqew.shtm>. Accessed: November 3, 2021.

U.S. Census Bureau. 2000. 2000 Census. Available: <http://socialexplorer.com>. Accessed: October 27, 2021.

U.S. Census Bureau. 2019a. American Community Survey 5-year Estimates. Available: <http://socialexplorer.com>. Accessed: October 29, 2021.

U.S. Census Bureau. 2019b. OnTheMap Application and LEHD Origin-Destination Employment Statistics (Beginning of Quarter Employment, 2nd Quarter of 2002–2019), All Jobs, Where Workers Work, 2019.

U.S. Census Bureau. 2020. 2020 Census. Available: <http://socialexplorer.com>. Accessed: November 3, 2021.

I.6.3 Wetlands

Empire Offshore Wind, LLC (Empire). 2022. *Empire Offshore Wind: Empire Wind Project (EW1 and EW2), Construction and Operations Plan*. June. Available: <https://www.boem.gov/renewable-energy/empire-wind-construction-and-operations-plan>.

Tetra Tech. 2021. *EW 2 Onshore Substation C Characterization Report*. Prepared for Equinor. October.

I.6.4 Commercial and For-Hire Recreational Fishing

National Marine Fisheries Service (NMFS). 2022a. Commercial Fisheries Statistics. Available: <https://www.fisheries.noaa.gov/national/sustainable-fisheries/commercial-fisheries-landings>. Accessed: April 2022.

National Marine Fisheries Service (NMFS). 2022b. Socioeconomic Impacts of Atlantic Offshore Wind Development. Available: <https://www.fisheries.noaa.gov/resource/data/socioeconomic-impacts-atlantic-offshore-wind-development>. Accessed: April 2022.

I.6.5 Navigation and Vessel Traffic

U.S. Coast Guard (USCG). 2021. *Northern New York Bight Port Access Route Study: Final Report*. USCG-2020-0278. December 2021. Available: <https://www.regulations.gov/document/USCG-2020-0278-0067>. Accessed: January 8, 2022.