
Terrestrial Vegetation Monitoring at Cape Hatteras National Seashore

*2023 Data Summary—Cycle 2 and Newly Established
Cycle 1 Plots*

Plot- and Species-Scale Summary Tables

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Environmental Attributes and Observed Disturbances and Threats

Table 1. Local landform, topography, hydrologic condition, and vegetation classification information of the Southeast Coast Network’s 71 long-term vegetation monitoring plots in Cape Hatteras National Seashore. All features were determined in the field. Cycle 1 plots were established in 2023; Cycle 2 plots were established in 2019 and resampled in 2023. ^A Terrain Shape Index: the larger the value, the higher degree of microsite concavity; the lower the value, the higher degree of microsite convexity; “0” values indicate a completely flat shape. ^B Vegetation Association: the lowest level within the U.S. National Vegetation Classification hierarchy, defined by a characteristic range of species, habitat conditions, and physiognomy reflecting topographic and soil features, climate, hydrology, and disturbance regimes.

Broadly Defined Habitat	Cycle	Plot	Slope (°)	Aspect (°)	TSI ^A (°)	Landform	Physiognomy	2019 Submerged (%)	2023 Submerged (%)	Vegetation Association ^B
Nontidal Wetlands	1	BOIS015	0	n/a	0	flat plain	Shrubland	n/a	20	Atlantic Coast Interdune Swale (CEGL003839)
	1	HAIS009	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	1	HAIS016	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	1	HAIS017	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	1	OCIS003	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	1	OCIS009	0	n/a	0	flat plain	Shrubland	n/a	10	Atlantic Coast Interdune Swale (CEGL003839)
	2	BOIS003	0	n/a	0	flat plain	Shrubland	90	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BOIS005	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BOIS006	0	n/a	0	flat plain	Shrubland	90	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BOIS007	0	n/a	0	flat plain	Shrubland	20	0	Mid-Atlantic Maritime Shrub Swamp (Red Bay Type) (CEGL00007)
	2	BOIS008	0	n/a	0	flat plain	Shrubland	10	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BUXT002	0	n/a	0	seep/swale	Forest	0	0	Mid-Atlantic Maritime Shrub Swamp (Dogwood Type) (CEGL007384)
	2	BUXT004	0	n/a	0	tidal flat	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BUXT008	0	n/a	0	flat plain	Herbaceous	0	0	Marsh Fimbry - Common Threesquare Marsh (CEGL003790)
	2	BUXT009	0	n/a	0	backswamp	Forest	60	80	Mid-Atlantic Maritime Shrub Swamp (Carolina Willow Type) (CEGL004222)
	2	BUXT065	0	n/a	0	flat plain	Herbaceous	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	BUXT067	0	n/a	0	seep/swale	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)

Broadly Defined Habitat	Cycle	Plot	Slope (°)	Aspect (°)	TSI ^A (°)	Landform	Physiognomy	2019 Submerged (%)	2023 Submerged (%)	Vegetation Association ^B
	2	HAIS001	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	OCIS001	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	OCIS008	0	n/a	0	flat plain	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
	2	OCIS010	complex	complex	complex	seep/swale	Shrubland	0	0	Atlantic Coast Interdune Swale (CEGL003839)
Tidal Wetlands	1	BOIS067	0	n/a	0	tidal flat	Herbaceous	n/a	20	Cattail Tidal Oligohaline Marsh (CEGL004201)
	1	BOIS068	0	n/a	0	tidal flat	Herbaceous	n/a	80	Transitional Tidal Marsh (CEGL006612)
	1	BOIS069	0	n/a	0	tidal flat	Herbaceous	n/a	100	Mid-Atlantic High Salt Marsh (CEGL004197)
	1	HAIS065	0	n/a	0	tidal flat	Herbaceous	n/a	10	Mid-Atlantic High Salt Marsh (CEGL004197)
	1	HAIS066	0	n/a	0	tidal flat	Herbaceous	n/a	100	Mid-Atlantic High Salt Marsh (CEGL004197)
	1	HAIS067	0	n/a	0	tidal flat	Herbaceous	n/a	20	Mid-Atlantic High Salt Marsh (CEGL004197)
	1	HAIS068	0	n/a	0	tidal flat	Herbaceous	n/a	20	Mid-Atlantic High Salt Marsh (CEGL004197)
	2	BOIS066	0	n/a	0	tidal flat	Herbaceous	100	80	Cattail Tidal Oligohaline Marsh (CEGL004201)
	2	OCIS065	0	n/a	0	tidal flat	Herbaceous	10	0	Seaside-tansy Tidal Shrub Flat (CEGL003924)
	2	OCIS066	0	n/a	0	tidal flat	Herbaceous	0	0	Mid-Atlantic High Salt Marsh (CEGL004197)
	2	OCIS067	0	n/a	0	tidal flat	Herbaceous	0	100	Mid-Atlantic High Salt Marsh (CEGL004197)
	2	OCIS069	0	n/a	0	tidal flat	Herbaceous	0	100	Seaside-tansy Tidal Shrub Flat (CEGL003924)
	2	OCIS071	0	n/a	0	tidal flat	Herbaceous	0	0	Mid-Atlantic High Salt Marsh (CEGL004197)
	2	OCIS072	0	n/a	0	tidal flat	Herbaceous	0	0	Mid-Atlantic High Salt Marsh (CEGL004197)
Upland Forests and Shrublands	1	BOIS097	0	n/a	0	flat plain	Forest	n/a	0	Slash Pine Plantation (CST007170)
	1	BOIS098	0	n/a	0	flat plain	Forest	n/a	0	Mid-Atlantic Coastal Maritime Forest (CEGL006040)
	1	BOIS100	0	n/a	0	flat plain	Forest	n/a	0	Slash Pine Plantation (CST007170)
	1	OCIS113	complex	complex	complex	rolling upland	Forest	n/a	0	Slash Pine Plantation (CST007170)
	1	OCIS115	0	n/a	0	ravine	Forest	n/a	0	Slash Pine Plantation (CST007170)

Broadly Defined Habitat	Cycle	Plot	Slope (°)	Aspect (°)	TSI ^A (°)	Landform	Physiognomy	2019 Submerged (%)	2023 Submerged (%)	Vegetation Association ^B
	1	OCIS116	complex	complex	complex	rolling upland	Forest	n/a	0	Slash Pine Plantation (CST007170)
	2	BUXT003	0	n/a	0	flat plain	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
	2	BUXT005	0	n/a	0	flat plain	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
	2	BUXT006	10	320	0.375	rolling upland	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
	2	BUXT007	0	n/a	0	flat plain	Forest	0	0	Mid-Atlantic Coastal Maritime Forest (CEGL006040)
	2	BUXT010	1.5	225	2.375	rolling upland	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
	2	BUXT011	0	n/a	0	flat plain	Forest	0	0	Mid-Atlantic Coastal Maritime Forest (CEGL006040)
	2	BUXT013	14	307	2	rolling upland	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
	2	BUXT014	complex	complex	complex	rolling upland	Forest	0	0	Atlantic Coast Maritime Evergreen Forest (CEGL007027)
Upland Open Grasslands	2	BOIS001	complex	complex	complex	rolling upland	Shrubland	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BOIS002	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BOIS004	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BOIS013	complex	complex	complex	rolling upland	Herbaceous	0	0	Overwash Dune Grassland (CEGL004097)
	2	BUXT068	complex	complex	complex	seep/swale	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BUXT069	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BUXT071	complex	complex	complex	back slope	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BUXT072	complex	complex	complex	seep/swale	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BUXT074	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	BUXT075	complex	complex	complex	seep/swale	Shrubland	0	0	Overwash Dune Grassland (CEGL004097)
	2	HAIS002	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	HAIS003	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	HAIS004	0	n/a	0	seep/swale	Shrubland	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	HAIS005	complex	complex	complex	seep/swale	Shrubland	0	0	Mid-Atlantic Coast Backdune Shrub Grassland (CEGL004240)

Broadly Defined Habitat	Cycle	Plot	Slope (°)	Aspect (°)	TSI ^A (°)	Landform	Physiognomy	2019 Submerged (%)	2023 Submerged (%)	Vegetation Association ^B
	2	HAIS006	complex	complex	complex	rolling upland	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	HAIS007	complex	complex	complex	seep/swale	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	HAIS008	complex	complex	complex	seep/swale	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	OCIS002	0	n/a	0	flat plain	Shrubland	0	0	Overwash Dune Grassland (CEGL004097)
	2	OCIS004	complex	complex	complex	seep/swale	Herbaceous	0	0	Overwash Dune Grassland (CEGL004097)
	2	OCIS005	0	n/a	0	seep/swale	Shrubland	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	OCIS006	complex	complex	complex	seep/swale	Herbaceous	0	0	Sea-oats Dune Grassland (CEGL4040)
	2	OCIS007	complex	complex	complex	seep/swale	Shrubland	0	0	Overwash Dune Grassland (CEGL004097)

Table 2. Soil nutrient status from 71 vegetation monitoring plots of Cape Hatteras National Seashore. The Mehlich III method was used to obtain volume of exchangeable cations and extractable minor elements within soil samples. Methods to obtain other soil chemistry metrics (e.g., total exchange capacity [TEC], pH, and organic matter content [OM]) can be found on the Brookside Laboratories, Inc website (BL 2025). Data from Cycle 2 plots were from analysis conducted on samples collected in 2019; these data also appear in Boyle and Rico (2021). Data from Cycle 1 plots were from taken from samples collected in 2023. ^ Anions (P: Phosphorous); Exchangeable Cations (Ca: Calcium, Mg: Magnesium, K: Potassium, Na: Sodium); Extractable Minors (B: Boron, Fe: Iron, Mn: Manganese, Cu: Copper, Zn: Zinc, Al: Aluminum). Data reported in parts per million (ppm).

Broadly Defined Habitat	Cycle	Plot	TEC (ME/100 g)	pH	OM (%)	P ^A	Ca ^A	Mg ^A	K ^A	Na ^A	B ^A	Fe ^A	Mn ^A	Cu ^A	Zn ^A	Al ^A
Nontidal Wetlands	1	BOIS015	9.2	6.5	1.4	24.0	386.0	273.0	95.0	828.0	1.0	116.0	3.0	0.1	0.5	115.0
	1	HAIS009	1.8	6.1	0.7	11.0	156.0	59.0	33.0	29.0	0.3	77.0	2.0	0.1	0.9	66.0
	1	HAIS016	4.3	5.7	3.8	20.0	163.0	124.0	71.0	232.0	0.3	63.0	0.5	0.4	0.5	123.0
	1	HAIS017	7.1	5.7	4.1	31.0	289.0	223.0	85.0	327.0	0.7	117.0	4.0	0.3	1.4	97.0
	1	OCIS003	9.6	7.0	7.5	23.0	503.0	500.0	77.0	517.0	2.4	89.0	1.0	0.1	1.7	115.0
	1	OCIS009	15.9	6.3	8.5	31.0	761.0	520.0	97.0	1162.0	2.1	150.0	0.5	0.1	1.1	175.0
	2	BOIS003	6.6	5.7	2.8	24.0	593.0	146.0	18.0	83.0	0.5	39.0	2.0	0.6	1.1	115.0
	2	BOIS005	4.8	5.2	0.9	11.0	208.0	101.0	15.0	160.0	0.2	41.0	2.0	0.7	0.0	52.0
	2	BOIS006	11.2	5.1	4.0	43.0	261.0	258.0	53.0	484.0	0.7	13.0	0.0	0.8	1.1	125.0
	2	BOIS007	2.8	5.1	2.5	6.0	80.0	59.0	26.0	108.0	0.0	21.0	0.0	0.6	0.0	35.0
	2	BOIS008	4.6	5.3	0.8	12.0	141.0	111.0	25.0	215.0	0.2	30.0	0.0	0.6	1.3	76.0
	2	BUXT002	9.9	6.0	2.4	13.0	1477.0	44.0	12.0	25.0	0.8	110.0	0.0	0.6	2.8	94.0
	2	BUXT004	6.4	6.9	1.0	10.0	1118.0	38.0	6.0	29.0	0.4	46.0	1.0	0.6	0.8	43.0
	2	BUXT008	9.1	7.7	0.7	6.0	1657.0	30.0	7.0	42.0	0.4	32.0	2.0	0.4	1.0	4.0
	2	BUXT009	25.7	5.8	23.4	31.0	3504.0	96.0	38.0	82.0	1.4	207.0	5.0	0.5	4.6	100.0
	2	BUXT065	6.1	8.2	0.3	6.0	1054.0	55.0	14.0	35.0	0.3	34.0	4.0	0.6	1.0	26.0
	2	BUXT067	6.1	8.0	0.3	15.0	1105.0	23.0	9.0	32.0	0.3	33.0	3.0	0.6	0.5	68.0
	2	HAIS001	5.5	5.3	1.7	8.0	141.0	121.0	40.0	307.0	0.5	89.0	1.0	0.5	1.0	78.0
	2	OCIS001	6.7	7.2	2.0	6.0	915.0	172.0	16.0	76.0	0.7	165.0	0.0	0.5	0.8	66.0

Broadly Defined Habitat	Cycle	Plot	TEC (ME/100 g)	pH	OM (%)	P ^A	Ca ^A	Mg ^A	K ^A	Na ^A	B ^A	Fe ^A	Mn ^A	Cu ^A	Zn ^A	Al ^A
	2	OCIS008	14.0	7.1	1.3	21.0	2507.0	69.0	13.0	66.0	0.8	54.0	3.0	0.7	0.0	32.0
	2	OCIS010	11.8	7.8	1.7	11.0	1932.0	125.0	19.0	137.0	0.7	75.0	2.0	0.5	0.7	39.0
	–	average	8.5	6.4	3.4	17.3	902.4	149.9	36.6	237.0	0.7	76.2	1.7	0.5	1.1	78.3
	–	standard deviation	5.3	1.0	5.1	10.5	899.0	139.2	30.5	295.4	0.6	52.0	1.5	0.2	1.0	41.7
Tidal Wetlands	1	BOIS067	85.5	4.9	53.8	19.0	1075.0	1159.0	304.0	5288.0	3.7	187.0	2.0	0.1	1.0	80.0
	1	BOIS068	84.9	5.0	54.4	25.0	690.0	1248.0	412.0	5866.0	3.2	139.0	1.0	0.3	1.6	148.0
	1	BOIS069	83.6	4.7	10.3	20.0	709.0	978.0	244.0	5051.0	2.7	105.0	0.5	0.1	0.8	224.0
	1	HAIS065	112.1	5.6	38.4	62.0	1394.0	2002.0	541.0	11457.0	17.0	149.0	4.0	0.7	2.0	302.0
	1	HAIS066	95.8	4.9	49.0	29.0	605.0	1125.0	421.0	6898.0	3.0	91.0	0.5	0.4	1.2	177.0
	1	HAIS067	141.1	6.3	32.7	93.0	1616.0	2836.0	871.0	19581.0	29.4	222.0	0.5	0.6	2.3	275.0
	1	HAIS068	162.2	5.2	15.8	20.0	970.0	2220.0	670.0	14379.0	11.3	388.0	3.0	0.3	2.3	278.0
	2	BOIS066	9.7	5.8	0.7	7.0	152.0	232.0	49.0	982.0	0.8	19.0	0.0	0.4	0.0	63.0
	2	OCIS065	12.9	7.7	0.4	10.0	747.0	243.0	73.0	1480.0	0.9	64.0	0.0	0.5	0.0	39.0
	2	OCIS066	16.7	8.1	0.3	7.0	2638.0	110.0	33.0	453.0	0.7	39.0	2.0	0.6	0.0	11.0
	2	OCIS067	7.6	5.3	1.0	10.0	488.0	137.0	20.0	170.0	0.6	80.0	2.0	0.6	1.0	79.0
	2	OCIS069	12.5	7.1	1.1	25.0	680.0	310.0	87.0	1325.0	1.9	115.0	0.0	0.7	0.8	73.0
	2	OCIS071	8.1	6.1	0.6	9.0	213.0	223.0	54.0	801.0	0.9	54.0	0.0	0.6	0.8	82.0
	2	OCIS072	15.9	7.7	0.3	9.0	2575.0	82.0	18.0	392.0	0.6	25.0	0.0	0.7	0.0	20.0
	–	average	60.6	6.0	18.5	24.6	1039.4	921.8	271.2	5294.5	5.5	119.8	1.1	0.5	1.0	132.2
	–	standard deviation	54.8	1.2	22.1	24.3	773.9	898.8	275.9	6015.3	8.3	97.6	1.3	0.2	0.8	101.3
Upland Forests and Shrublands	1	BOIS097	4.1	5.1	1.7	14.0	158.0	89.0	19.0	114.0	0.1	28.0	0.5	0.2	0.6	59.0
	1	BOIS098	2.9	5.3	2.8	11.0	148.0	60.0	31.0	82.0	0.7	278.0	0.5	0.1	0.2	276.0
	1	BOIS100	2.9	5.2	1.1	8.0	159.0	60.0	16.0	52.0	0.1	46.0	1.0	0.1	0.2	40.0
	1	OCIS113	4.5	6.9	1.8	12.0	506.0	155.0	24.0	70.0	0.5	91.0	2.0	0.1	0.5	67.0

Broadly Defined Habitat	Cycle	Plot	TEC (ME/100 g)	pH	OM (%)	P ^A	Ca ^A	Mg ^A	K ^A	Na ^A	B ^A	Fe ^A	Mn ^A	Cu ^A	Zn ^A	Al ^A
	1	OCIS115	1.5	6.1	0.6	7.0	121.0	52.0	14.0	41.0	0.1	24.0	0.5	0.1	0.2	30.0
	1	OCIS116	1.6	5.8	0.7	7.0	106.0	46.0	17.0	48.0	0.1	24.0	0.5	0.1	0.2	28.0
	2	BUXT003	5.0	6.6	1.6	4.0	800.0	35.0	9.0	27.0	0.3	31.0	1.0	0.5	1.9	31.0
	2	BUXT005	1.2	6.1	0.3	3.0	137.0	24.0	6.0	15.0	0.0	66.0	2.0	0.5	0.8	44.0
	2	BUXT006	2.1	4.8	1.4	9.0	111.0	30.0	16.0	17.0	0.0	51.0	2.0	0.4	0.8	50.0
	2	BUXT007	11.3	7.7	0.4	3.0	2105.0	14.0	0.0	49.0	0.3	11.0	0.0	0.6	0.0	4.0
	2	BUXT010	8.2	7.5	1.0	8.0	1479.0	28.0	6.0	45.0	0.5	23.0	2.0	0.7	0.9	49.0
	2	BUXT011	2.9	5.3	1.4	2.0	259.0	27.0	7.0	28.0	0.2	52.0	0.0	0.5	0.0	36.0
	2	BUXT013	6.1	6.7	2.1	5.0	1036.0	23.0	4.0	30.0	0.4	126.0	0.0	0.6	0.0	59.0
	2	BUXT014	3.6	8.2	0.2	5.0	631.0	21.0	10.0	22.0	0.3	67.0	5.0	0.6	0.4	37.0
	–	average	4.1	6.2	1.2	7.0	554.0	47.4	12.8	45.7	0.3	65.6	1.2	0.4	0.5	57.9
	–	standard deviation	2.8	1.1	0.8	3.6	613.0	37.1	8.4	27.6	0.2	68.5	1.3	0.2	0.5	64.8
Upland Open Grasslands	2	BOIS001	0.8	5.5	0.0	4.0	62.0	18.0	6.0	12.0	0.0	28.0	1.0	0.5	0.0	43.0
	2	BOIS002	1.0	5.9	0.2	9.0	70.0	36.0	13.0	21.0	0.2	34.0	2.0	0.8	0.9	41.0
	2	BOIS004	0.6	5.8	0.0	3.0	48.0	18.0	6.0	11.0	0.3	31.0	0.0	0.6	0.0	38.0
	2	BOIS013	1.3	5.1	0.2	6.0	59.0	31.0	11.0	15.0	0.0	50.0	3.0	0.5	0.6	51.0
	2	BUXT068	1.7	6.0	0.6	5.0	121.0	71.0	14.0	31.0	0.4	50.0	1.0	0.7	1.1	49.0
	2	BUXT069	6.7	8.1	0.1	6.0	1215.0	31.0	9.0	33.0	0.0	23.0	4.0	0.5	0.6	10.0
	2	BUXT071	3.4	7.7	0.1	8.0	564.0	39.0	9.0	21.0	0.0	42.0	4.0	0.6	0.5	29.0
	2	BUXT072	1.8	6.9	0.3	9.0	205.0	69.0	12.0	20.0	0.2	55.0	3.0	0.9	0.8	53.0
	2	BUXT074	6.2	8.4	0.1	6.0	1139.0	24.0	7.0	30.0	0.0	22.0	3.0	0.8	0.0	10.0
	2	BUXT075	2.5	7.5	0.3	5.0	436.0	17.0	5.0	22.0	0.2	46.0	0.0	0.8	0.0	37.0
	2	HAIS002	0.9	7.2	0.0	5.0	130.0	21.0	5.0	12.0	0.0	23.0	1.0	0.5	0.5	29.0
	2	HAIS003	2.0	7.5	0.0	5.0	321.0	25.0	8.0	17.0	0.2	26.0	3.0	0.6	0.5	27.0

Broadly Defined Habitat	Cycle	Plot	TEC (ME/100 g)	pH	OM (%)	P ^A	Ca ^A	Mg ^A	K ^A	Na ^A	B ^A	Fe ^A	Mn ^A	Cu ^A	Zn ^A	Al ^A
	2	HAIS004	1.4	6.3	0.5	5.0	150.0	44.0	13.0	13.0	0.3	36.0	1.0	0.5	1.0	40.0
	2	HAIS005	0.9	6.1	0.2	5.0	99.0	21.0	7.0	12.0	0.0	27.0	0.0	0.4	0.5	39.0
	2	HAIS006	0.8	6.3	0.2	6.0	84.0	24.0	8.0	13.0	0.0	24.0	1.0	0.6	0.7	33.0
	2	HAIS007	2.8	7.7	0.1	3.0	467.0	24.0	9.0	22.0	0.0	23.0	2.0	0.6	0.4	19.0
	2	HAIS008	1.3	7.3	0.2	4.0	178.0	28.0	9.0	17.0	0.2	31.0	2.0	0.4	0.5	42.0
	2	OCIS002	4.4	7.8	0.4	7.0	741.0	40.0	12.0	29.0	0.4	32.0	2.0	0.6	0.0	26.0
	2	OCIS004	1.9	7.4	0.2	7.0	277.0	35.0	9.0	18.0	0.2	47.0	2.0	0.7	0.5	36.0
	2	OCIS005	8.7	8.3	0.2	9.0	1578.0	36.0	7.0	39.0	0.2	36.0	2.0	0.6	0.6	28.0
	2	OCIS006	2.4	7.9	0.1	7.0	368.0	38.0	9.0	26.0	0.3	40.0	3.0	0.5	0.5	31.0
	2	OCIS007	7.3	8.3	0.3	15.0	1326.0	36.0	8.0	33.0	0.2	32.0	4.0	0.4	0.8	21.0
	–	average	2.8	7.0	0.2	6.3	438.1	33.0	8.9	21.2	0.2	34.5	2.0	0.6	0.5	33.3
	–	standard deviation	2.4	1.0	0.1	2.6	465.4	14.4	2.6	8.3	0.1	10.1	1.3	0.1	0.3	11.8

Table 3. Disturbance observations and abundance (% cover) measured on 2023 vegetation monitoring plots of Cape Hatteras National Seashore.

Broad Habitat Type	Cycle	Plot	Historic Fire (> 1 year)	Mechanical Tree Removal	Social Trails	Old Road	Salt Water Intrusion
Nontidal Wetlands	1	BOIS015		–	–	–	–
	1	HAIS009	–	–	–	–	–
	1	HAIS016	–	–	–	–	–
	1	HAIS017	–	–	–	–	–
	1	OCIS003	–	–	–	–	100
	1	OCIS009	–	–	–	–	–
	2	BOIS003	100	–	–	–	–
	2	BOIS005	100	–	–	–	–
	2	BOIS006	100	–	–	–	–
	2	BOIS007	100	–	–	–	–
	2	BOIS008	–	–	–	–	–
	2	BUXT002	–	–	–	–	–
	2	BUXT004	–	–	–	–	–
	2	BUXT008	–	–	–	–	–
	2	BUXT009	–	–	–	–	–
	2	BUXT065	–	–	–	–	–
	2	BUXT067	–	–	–	–	–
	2	HAIS001	–	–	–	–	–
	2	OCIS001	–	–	–	–	100
	2	OCIS008	–	–	–	–	–
	2	OCIS010	–	–	–	–	–
Tidal Wetlands	1	BOIS067	100	–	–	–	–
	1	BOIS068	100	–	–	–	–

Broad Habitat Type	Cycle	Plot	Historic Fire (> 1 year)	Mechanical Tree Removal	Social Trails	Old Road	Salt Water Intrusion
	1	BOIS069	100	–	–	–	–
	1	HAIS065	–	–	–	–	–
	1	HAIS066	–	–	–	–	–
	1	HAIS067	–	–	–	–	–
	1	HAIS068	–	–	–	–	–
	2	BOIS066	–	–	–	–	–
	2	OCIS065	–	–	–	–	–
	2	OCIS066	–	–	–	–	–
	2	OCIS067	–	–	–	–	–
	2	OCIS069	–	–	–	–	–
	2	OCIS071	–	–	–	–	–
	2	OCIS072	–	–	–	–	–
Upland Forest and Shrublands	1	BOIS097	–	–	–	–	–
	1	BOIS098	100	–	–	–	–
	1	BOIS100	100	10	–	–	–
	1	OCIS113	–	–	–	–	–
	1	OCIS115	–	–	–	–	–
	1	OCIS116	–	–	–	–	–
	2	BUXT003	–	–	–	–	–
	2	BUXT005	–	–	–	–	–
	2	BUXT006	–	–	–	–	–
	2	BUXT007	–	–	–	–	–
	2	BUXT010	–	–	–	–	–
	2	BUXT011	–	–	–	–	–
	2	BUXT013	–	–	20	–	–

Broad Habitat Type	Cycle	Plot	Historic Fire (> 1 year)	Mechanical Tree Removal	Social Trails	Old Road	Salt Water Intrusion
	2	BUXT014	–	–	–	–	–
Upland Open Grasslands	2	BOIS001	–	–	–	–	–
	2	BOIS002	–	–	–	–	–
	2	BOIS004	–	–	–	–	–
	2	BOIS013	–	–	–	–	–
	2	BUXT068	–	–	–	–	–
	2	BUXT069	–	–	–	–	–
	2	BUXT071	–	–	–	–	–
	2	BUXT072	–	–	–	–	–
	2	BUXT074	–	–	–	–	–
	2	BUXT075	–	–	–	–	–
	2	HAIS002	–	–	–	–	–
	2	HAIS003	–	–	–	–	–
	2	HAIS004	–	–	–	100	–
	2	HAIS005	–	–	–	–	–
	2	HAIS006	–	–	–	–	–
	2	HAIS007	–	–	–	–	–
	2	HAIS008	–	–	–	–	–
	2	OCIS002	–	–	–	–	–
	2	OCIS004	–	–	–	–	–
	2	OCIS005	–	–	–	–	–
	2	OCIS006	–	–	–	–	–
	2	OCIS007	–	–	–	–	–

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Vascular Plant Species Presence and Abundance

Table 4. Vascular plant taxa observed during the 2019 and 2023 SECN terrestrial vegetation monitoring effort at Cape Hatteras National Seashore along with growth form determination, invasive and rarity status within North Carolina, and presence information for both Cycle Years—2019 and 2023. ^gGreen rows indicate taxa not previously detected within the park from the following sources—NPSpecies (2025), Southeast Regional Network of Expertise and Collections (SERNEC 2025), Byrne et al. (2012), and Sorrie (2021). Nomenclature and nativity follow the 2020 version of the “Flora of the Southeastern United States (Weakley 2020). ^A Information obtained from the PLANTS database (USDA 2025); ^B Information obtained from the North Carolina Native Plant Society (NCNPS 2023); and ^C Information obtained from Walker et al. (2024).

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Sapindaceae	<i>Acer rubrum</i>	Red Maple	native	Tree	–	–	YES	YES
Orobanchaceae	<i>Agalinis maritima</i> var. <i>grandiflora</i>	Southern Saltmarsh Agalinis	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Ambrosia artemisiifolia</i>	Common Ragweed	native	Herbaceous	–	–	YES	YES
Rosaceae	<i>Amelanchier canadensis</i>	Eastern Serviceberry	native	Tree	–	–	YES	YES
Blechnaceae	<i>Anchistea virginica</i>	Virginia Chain Fern	native	Herbaceous	–	–	NO	YES
Poaceae	<i>Andropogon cretaceus</i>	Purple Bluestem	native	Graminoid	–	–	NO	YES
Poaceae	<i>Andropogon tenuispatheus</i>	Maritime Bushy Bluestem	native	Graminoid	–	–	YES	YES
Poaceae	<i>Andropogon ternarius</i>	Splitbeard Bluestem	native	Graminoid	–	–	YES	NO
Poaceae	<i>Andropogon virginicus</i> var. <i>decipiens</i>	Deceptive Bluestem	native	Graminoid	–	Poorly Known	YES	YES
Poaceae	<i>Andropogon virginicus</i> var. <i>virginicus</i>	Broomsedge	native	Graminoid	–	–	YES	YES
Apocynaceae	<i>Apocynum cannabinum</i>	Hemp Dogbane	native	Graminoid	–	–	NO	YES
Rosaceae	<i>Aronia arbutifolia</i>	Red Chokeberry	native	Tree	–	–	YES	YES
Apocynaceae	<i>Asclepias incarnata</i> var. <i>pulchra</i>	Eastern Swamp Milkweed	native	Herbaceous	–	–	YES	NO
Apocynaceae	<i>Asclepias lanceolata</i>	Few-flowered Milkweed	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Asteraceae</i>	Aster Family	unknown	Herbaceous	–	–	NO	YES
Chenopodiaceae	<i>Atriplex prostrata</i>	Thinleaf Orach	non-native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Baccharis angustifolia</i>	False-willow	native	Shrub	–	Rare But Relatively Secure	YES	YES

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Asteraceae	<i>Baccharis halimifolia</i>	Silverling	native	Tree	–	–	YES	YES
Plantaginaceae	<i>Bacopa monnieri</i>	Brahmi	native	Herbaceous	–	–	NO	YES
Gentianaceae	<i>Bartonia virginica</i>	Virginia Bartonia	native	Herbaceous	–	–	YES	NO
Cornaceae	<i>Benthamidia florida</i>	Flowering Dogwood	native	Tree	–	–	YES	YES
Rhamnaceae	<i>Berchemia scandens</i>	Supplejack	native	Vine	–	–	YES	YES
Urticaceae	<i>Boehmeria cylindrica</i>	Swamp-nettle	native	Herbaceous	–	–	YES	YES
Cyperaceae	<i>Bolboschoenus robustus</i>	Saltmarsh Bulrush	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Borrchia frutescens</i>	Silver Seaside Oxeye	native	Herbaceous	–	–	YES	YES
Orobanchaceae ^G	<i>Buchnera floridana</i> ^G	Savanna Bluehearts ^G	native ^G	Herbaceous ^G	–	–	YES ^G	NO ^G
Cyperaceae	<i>Bulbostylis ciliatifolia</i>	Savanna Hairsedge	native	Graminoid	–	–	NO	YES
Brassicaceae	<i>Cakile [edentula + harperi]</i>	Northeastern Sea-rocket - Southeastern Sea-rocket	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Calamagrostis breviligulata</i> ssp. <i>breviligulata</i>	American Beachgrass	native	Graminoid	–	–	YES	NO
Lamiaceae	<i>Callicarpa americana</i>	American Beautyberry	native	Shrub	–	–	YES	YES
Cyperaceae	<i>Carex</i>	Sedge	native	Graminoid	–	–	YES	NO
Cyperaceae	<i>Carex comosa</i>	Bottlebrush Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Carex floridana</i>	Florida Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Carex longii</i>	Long's Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Carex lupulina</i>	Hop Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Carex muehlenbergii</i> var. <i>muehlenbergii</i>	Muehlenberg's Sedge	native	Graminoid	–	–	YES	NO
Cyperaceae	<i>Carex stipata</i> var. <i>maxima</i>	Large Stalk-grain Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae ^G	<i>Carex striatula</i> ^G	Lined Sedge ^G	native ^G	Graminoid ^G	–	–	NO ^G	YES ^G

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Betulaceae	<i>Carpinus caroliniana</i> var. <i>caroliniana</i>	Coastal American Hornbeam	native	Tree	–	–	YES	YES
Oleaceae	<i>Cartrema americanum</i>	Wild Olive	native	Tree	–	–	NO	YES
Poaceae	<i>Cenchrus tribuloides</i>	Dune Sandspur	native	Graminoid	–	–	YES	YES
Apiaceae	<i>Centella asiatica</i>	Centella	native	Herbaceous	–	–	YES	YES
Fabaceae	<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i>	Common Partridge-Pea	native	Herbaceous	–	–	YES	NO
Poaceae	<i>Chasmanthium laxum</i>	Slender Spikegrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Chasmanthium sessiliflorum</i> var. <i>sessiliflorum</i>	Longleaf Spikegrass	native	Graminoid	–	–	YES	YES
Ericaceae	<i>Chimaphila maculata</i>	Pipsissewa	native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Chrysopsis gossypina</i>	Cottonleaf Goldenaster	native	Herbaceous	–	–	YES	YES
Apiaceae	<i>Cicuta maculata</i> var. <i>maculata</i>	Water-hemlock	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Cirsium horridulum</i> var. <i>horridulum</i>	Common Yellow Thistle	native	Herbaceous	–	–	YES	YES
Cyperaceae	<i>Cladium jamaicense</i>	Sawgrass	native	Graminoid	–	–	YES	YES
Fabaceae	<i>Clitoria mariana</i> var. <i>mariana</i>	Butterfly Pea	native	Vine	–	–	NO	YES
Poaceae	<i>Coleataenia anceps</i> ssp. <i>anceps</i>	Beaked Panic Grass	native	Graminoid	–	–	YES	YES
Commelinaceae	<i>Commelina erecta</i> var. <i>angustifolia</i>	Sand Dayflower	native	Herbaceous	–	–	YES	YES
Convolvulaceae	<i>Convolvulus soldanella</i>	Shore Bindweed	unknown	Vine	–	–	YES	YES
Euphorbiaceae	<i>Croton punctatus</i>	Silverleaf Croton	native	Herbaceous	–	–	YES	YES
Cyperaceae	<i>Cyperus croceus</i>	Baldwin's Flatsedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Cyperus esculentus</i> var. <i>leptostachyus</i>	Yellow Nutsedge	native	Graminoid	–	–	YES	NO

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Cyperaceae	<i>Cyperus filicinus</i>	Fern Flatsedge	native	Graminoid	–	–	YES	NO
Cyperaceae	<i>Cyperus grayi</i>	Gray's Flatsedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Cyperus haspan</i>	Sheathed Flatsedge	native	Graminoid	–	–	NO	YES
Cyperaceae	<i>Cyperus odoratus</i> var. <i>odoratus</i>	Fragrant Flatsedge	native	Graminoid	–	–	YES	NO
Cyperaceae	<i>Cyperus polystachyos</i>	Coast Flatsedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Cyperus retrorsus</i>	Pineland Flatsedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Cyperus strigosus</i>	Straw Flatsedge	native	Graminoid	–	–	YES	NO
Poaceae	<i>Danthonia sericea</i>	Silky Oat-grass	native	Graminoid	–	–	YES	YES
Fabaceae	<i>Desmodium glabellum</i>	Tall Tick-trefoil	native	Herbaceous	–	–	YES	YES
Fabaceae	<i>Desmodium paniculatum</i> var. <i>paniculatum</i>	Panicked Tick-trefoil	native	Herbaceous	–	–	NO	YES
Poaceae	<i>Dichanthelium aciculare</i>	Needle-leaf Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium acuminatum</i> var. <i>acuminatum</i>	Woolly Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium angustifolium</i>	Narrowleaf Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium arenicoloides</i>	Sandy Woods Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium boscii</i>	Bosc's Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium caeruleascens</i>	Blue Witchgrass	native	Graminoid	–	Threatened	YES	YES
Poaceae	<i>Dichanthelium commutatum</i> var. <i>commutatum</i>	Variable Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium dichotomum</i> var. <i>dichotomum</i>	Forked Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium laxiflorum</i>	Open-flower Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium meridionale</i>	Matting Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium neuranthum</i>	Nerved Witchgrass	native	Graminoid	–	Significantly Rare-Disjunct	YES	YES

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Poaceae	<i>Dichanthelium portoricense</i> ssp. <i>patulum</i>	Nash's Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Dichanthelium scoparium</i>	Velvet Witchgrass	native	Graminoid	–	–	YES	YES
Poaceae ^G	<i>Dichanthelium tenue</i> ^G	White-edged Witchgrass ^G	native ^G	Graminoid ^G	–	–	YES ^G	YES ^G
Poaceae	<i>Digitaria sanguinalis</i>	Northern Crab Grass	non-native	Graminoid	–	–	NO	YES
Rubiaceae	<i>Diodia virginiana</i>	Large Buttonweed	native	Herbaceous	–	–	YES	YES
Ebenaceae	<i>Diospyros virginiana</i>	American Persimmon	native	Tree	–	–	YES	YES
Poaceae	<i>Distichlis spicata</i>	Saltgrass, Spike Grass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Echinochloa walteri</i>	Swamp Barnyard-grass	native	Graminoid	–	–	NO	YES
Asteraceae	<i>Eclipta prostrata</i>	Eclipta	native	Herbaceous	–	–	NO	YES
Rubiaceae	<i>Edrastima uniflora</i>	Oldenlandia	native	Herbaceous	–	–	NO	YES
Elaeagnaceae	<i>Elaeagnus pungens</i>	Thorny-olive	non-native	Shrub	Rank 2	–	NO	YES
Cyperaceae	<i>Eleocharis ambigens</i>	Obscure Spikerush	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Eleocharis cellulosa</i>	Gulf Coast Spikerush	native	Graminoid	–	Threatened	YES	YES
Cyperaceae	<i>Eleocharis fallax</i>	Creeping Spikerush	native	Graminoid	–	Significantly Rare-Throughout	YES	YES
Cyperaceae	<i>Eleocharis montevidensis</i>	Sand Spikerush	native	Graminoid	–	Significantly Rare-Peripheral	YES	YES
Cyperaceae ^G	<i>Eleocharis palustris</i> ^G	Common Spikerush ^G	native ^G	Graminoid ^G	–	–	NO ^G	YES ^G
Cyperaceae	<i>Eleocharis rostellata</i>	Beaked Spikerush	native	Graminoid	–	Significantly Rare-Other	YES	YES
Cyperaceae	<i>Eleocharis tuberculosa</i>	Large-tubercled Spikerush	native	Graminoid	–	–	NO	YES
Asteraceae ^G	<i>Elephantopus carolinianus</i> ^G	Leafy Elephant's-foot ^G	native ^G	Herbaceous ^G	–	–	NO ^G	YES ^G
Asteraceae	<i>Elephantopus tomentosus</i>	Common Elephant's-foot	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Eleusine indica</i>	Yard Grass	non-native	Graminoid	–	–	YES	YES
Poaceae	<i>Elymus glabriflorus</i> var. <i>glabriflorus</i>	Southeastern Wild-rye	native	Graminoid	–	–	YES	YES

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Poaceae	<i>Elymus halophilus</i>	Salt-marsh Wild-rye	native	Graminoid	–	Significantly Rare-Peripheral	YES	NO
Poaceae	<i>Elymus virginicus</i>	Common Eastern Wild-rye	native	Graminoid	–	–	YES	YES
Poaceae	<i>Eragrostis spectabilis</i>	Purple Lovegrass	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Erechtites hieraciifolius</i>	Fireweed	native	Herbaceous	–	–	NO	YES
Poaceae	<i>Eremochloa ophiuroides</i>	Centipede Grass	non-native	Graminoid	Rank 3	–	YES	YES
Poaceae	<i>Erianthus giganteus</i>	Sugarcane Plume Grass	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Erigeron pusillus</i>	Southern Horseweed	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Erigeron vernus</i>	Whitetop Fleabane	native	Herbaceous	–	–	NO	YES
Celastraceae	<i>Euonymus americanus</i>	Strawberry-bush	native	Shrub	–	–	YES	YES
Asteraceae	<i>Eupatorium album</i>	White-bracted Thoroughwort	native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Eupatorium capillifolium</i>	Common Dog-fennel	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Eupatorium glaucescens</i>	Wedgeleaf Eupatorium	native	Herbaceous	–	–	YES	NO
Asteraceae	<i>Eupatorium hyssopifolium</i>	Hyssopleaf Eupatorium	native	Herbaceous	–	–	YES	YES
Asteraceae ^G	<i>Eupatorium leucolepis</i> ^G	Savanna Eupatorium ^G	native ^G	Herbaceous ^G	–	–	YES ^G	NO ^G
Asteraceae ^G	<i>Eupatorium maritimum</i> ^G	Maritime Thoroughwort ^G	native ^G	Herbaceous ^G	–	–	YES ^G	YES ^G
Asteraceae	<i>Eupatorium pilosum</i>	Ragged Eupatorium	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Eupatorium rotundifolium</i>	Common Roundleaf Eupatorium	native	Herbaceous	–	–	YES	NO
Asteraceae	<i>Euphorbia [bombensis + polygonifolia]</i>	Southern Seaside Spurge - Northern Seaside Spurge	native	Herbaceous	–	Significantly Rare-Throughout; E. bombensis only	YES	YES
Poaceae	<i>Eustachys petraea</i>	Dune Finger-grass	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Euthamia caroliniana</i>	Carolina Goldentop	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Festuca octoflora</i> var. <i>octoflora</i>	Southern Six-Weeks Fescue	native	Graminoid	–	–	YES	YES
Poaceae	<i>Festuca rubra</i>	Red Fescue	non-native	Graminoid	–	–	YES	YES
Poaceae	<i>Festuca sciurea</i>	Squirrel-tail Fescue	native	Graminoid	–	–	YES	NO

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Cyperaceae	<i>Fimbristylis castanea</i>	Marsh Fimbry	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Gaillardia pulchella</i> var. <i>drummondii</i>	Beach Blanket-flower	non-native	Herbaceous	–	–	YES	YES
Fabaceae	<i>Galactia volubilis</i>	McRee's Milkpea	native	Herbaceous	–	–	YES	YES
Rubiaceae	<i>Galium bermudense</i>	Coastal Bedstraw	native	Herbaceous	–	–	YES	YES
Rubiaceae	<i>Galium obtusum</i> var. <i>filifolium</i>	Carolina Bedstraw	native	Herbaceous	–	–	YES	YES
Rubiaceae	<i>Galium pilosum</i>	Hairy Bedstraw	native	Herbaceous	–	–	NO	YES
Rubiaceae	<i>Galium tinctorium</i> var. <i>floridanum</i>	Florida Three-lobed Bedstraw	native	Herbaceous	–	–	YES	YES
Rubiaceae	<i>Galium uniflorum</i>	One-flowered Bedstraw	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Gamochaeta pensylvanica</i>	Pennsylvania Everlasting	non-native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Gamochaeta purpurea</i>	Spoonleaf Purple Everlasting	native	Herbaceous	–	–	YES	YES
Gelsemiaceae	<i>Gelsemium sempervirens</i>	Carolina Jessamine	native	Vine	–	–	YES	YES
Poaceae	<i>Glyceria septentrionalis</i>	Floating Mannagrass	native	Graminoid	–	–	YES	YES
Apocynaceae ^G	<i>Gonolobus suberosus</i> var. <i>suberosus</i> ^G	Eastern Anglepod ^G	native ^G	Vine ^G	–	–	YES ^G	YES ^G
Poaceae ^G	<i>Greeneochloa coarctata</i> ^G	Nuttall's Reedgrass ^G	native ^G	Graminoid ^G	–	–	YES ^G	NO ^G
Asteraceae	<i>Heterotheca subaxillaris</i>	Camphorweed	native	Herbaceous	–	–	YES	YES
Rubiaceae	<i>Hexasepalum teres</i>	Poorjoe	native	Herbaceous	–	–	YES	YES
Malvaceae	<i>Hibiscus moscheutos</i>	Eastern Rose-mallow	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Hieracium gronovii</i>	Beaked Hawkweed	native	Herbaceous	–	–	YES	YES
Araliaceae	<i>Hydrocotyle bonariensis</i>	Dune Pennywort	native	Herbaceous	–	–	YES	YES
Araliaceae	<i>Hydrocotyle umbellata</i>	Marsh Water-pennywort	native	Herbaceous	–	–	YES	YES
Araliaceae	<i>Hydrocotyle verticillata</i>	Whorled Water-pennywort	native	Herbaceous	–	–	YES	YES
Hypericaceae	<i>Hypericum gentianoides</i>	Pineweed	native	Herbaceous	–	–	YES	YES

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Hypericaceae	<i>Hypericum hypericoides</i>	St. Andrew's Cross	native	Herbaceous	–	–	YES	YES
Hypoxidaceae	<i>Hypoxis wrightii</i>	Common Stargrass	native	Herbaceous	–	–	NO	YES
Aquifoliaceae	<i>Ilex glabra</i>	Little Gallberry	native	Tree	–	–	YES	YES
Aquifoliaceae	<i>Ilex opaca</i>	American Holly	native	Tree	–	–	YES	YES
Aquifoliaceae	<i>Ilex vomitoria</i>	Yaupon	native	Tree	–	–	YES	YES
Convolvulaceae	<i>Ipomoea sagittata</i>	Saltmarsh Morning-glory	native	Vine	–	–	YES	YES
Amaranthaceae	<i>Iresine rhizomatosa</i>	Bloodleaf	native	Herbaceous	–	Rare But Relatively Secure	NO	YES
Asteraceae	<i>Iva frutescens</i> var. <i>frutescens</i>	Southern Maritime Marsh-elder	native	Shrub	–	–	YES	YES
Asteraceae	<i>Iva imbricata</i>	Dune Marsh-elder	native	Shrub	–	–	YES	YES
Juncaceae	<i>Juncus biflorus</i>	Large Grass-leaved Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus coriaceus</i>	Leathery Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus dichotomus</i>	Forked Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus effusus</i> ssp. <i>solutus</i>	Common Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus megacephalus</i>	Large-headed Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus roemerianus</i>	Black Needle Rush	native	Graminoid	–	–	YES	YES
Juncaceae	<i>Juncus scirpoides</i> var. <i>scirpoides</i>	Scirpus-Like Rush	native	Graminoid	–	–	NO	YES
Cupressaceae	<i>Juniperus silicicola</i>	Southern Red Cedar	native	Tree	–	–	YES	YES
Malvaceae	<i>Kosteletzkya pentacarpos</i>	Seashore-mallow	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Krigia virginica</i>	Virginia Dwarf-dandelion	native	Herbaceous	–	–	YES	NO
Asteraceae	<i>Lactuca canadensis</i>	American Wild Lettuce	native	Herbaceous	–	–	YES	NO
Asteraceae	<i>Lactuca graminifolia</i> var. <i>graminifolia</i>	Coastal Plain Lettuce	native	Herbaceous	–	–	YES	YES
Cistaceae	<i>Lechea mucronata</i>	Hairy Pinweed	native	Herbaceous	–	–	NO	YES

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Poaceae	<i>Leersia oryzoides</i>	Rice Cutgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Leersia virginica</i>	White Grass	native	Graminoid	–	–	YES	YES
Brassicaceae	<i>Lepidium virginicum</i> var. <i>virginicum</i>	Poor Man's Pepper	native	Herbaceous	–	–	YES	YES
Plantaginaceae	<i>Linaria canadensis</i>	Common Toadflax	native	Herbaceous	–	–	NO	YES
Linaceae	<i>Linum curtissii</i>	Texas Yellow Flax	native	Herbaceous	–	–	NO	YES
Linaceae ^G	<i>Linum striatum</i> ^G	Ridgestem Yellow Flax ^G	native ^G	Herbaceous ^G	–	–	NO ^G	YES ^G
Caprifoliaceae	<i>Lonicera japonica</i>	Japanese Honeysuckle	non-native	Vine	Rank 1	–	YES	YES
Caprifoliaceae	<i>Lonicera sempervirens</i>	Coral Honeysuckle	native	Vine	–	–	NO	YES
Blechnaceae	<i>Lorinseria areolata</i>	Netted Chain Fern	native	Herbaceous	–	–	YES	YES
Onagraceae	<i>Ludwigia alata</i>	Winged Seedbox	native	Herbaceous	–	Significantly Rare-Peripheral	YES	YES
Onagraceae	<i>Ludwigia microcarpa</i>	Small-fruited Seedbox	native	Herbaceous	–	–	YES	YES
Onagraceae	<i>Ludwigia palustris</i>	Common Water-purslane	native	Herbaceous	–	–	NO	YES
Onagraceae	<i>Ludwigia repens</i>	Creeping Seedbox	native	Herbaceous	–	–	YES	YES
Lythraceae	<i>Lythrum lineare</i>	Narrowleaf Loosestrife	native	Herbaceous	–	–	YES	YES
Magnoliaceae	<i>Magnolia virginiana</i> var. <i>virginiana</i>	Northern Sweet Bay	native	Tree	–	–	YES	YES
Fabaceae	<i>Medicago lupulina</i>	Black Medick, Yellow Trefoil	non-native	Herbaceous	–	–	NO	YES
Poaceae	<i>Melica mutica</i>	Two-flower Melic	native	Graminoid	–	–	YES	YES
Cucurbitaceae	<i>Melothria pendula</i>	Melonette	native	Vine	–	–	NO	YES
Poaceae	<i>Microstegium vimineum</i>	Japanese Stilt-grass	non-native	Graminoid	Rank 1	–	YES	NO
Asteraceae	<i>Mikania scandens</i>	Climbing Hempweed	native	Vine	–	–	YES	YES
Rubiaceae	<i>Mitchella repens</i>	Partridge-berry	native	Herbaceous	–	–	YES	YES
Loganiaceae	<i>Mitreola petiolata</i>	Caribbean Miterwort	native	Herbaceous	–	–	YES	YES

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Lamiaceae	<i>Monarda punctata</i> var. <i>punctata</i>	Eastern Horsemint	native	Herbaceous	–	–	YES	YES
Myricaceae	<i>Morella cerifera</i>	Common Wax-myrtle	native	Shrub	–	–	YES	YES
Myricaceae	<i>Morella pensylvanica</i>	Northern Bayberry	native	Shrub	–	–	YES	YES
Poaceae	<i>Muhlenbergia sericea</i>	Dune Hairgrass	native	Graminoid	–	–	YES	YES
Vitaceae	<i>Muscadinia rotundifolia</i> var. <i>rotundifolia</i>	Muscadine, Scuppernong	native	Vine	–	–	YES	YES
Vitaceae	<i>Nekemias arborea</i>	Peppervine	native	Vine	–	–	YES	YES
Nyssaceae	<i>Nyssa biflora</i>	Swamp Tupelo	native	Tree	–	–	YES	YES
Onagraceae	<i>Oenothera humifusa</i>	Seabeach Evening-primrose	native	Herbaceous	–	–	YES	YES
Onagraceae	<i>Oenothera simulans</i>	Southeastern Gaura	native	Herbaceous	–	–	YES	YES
Onagraceae	<i>Oenothera unguiculata</i>	Coastal Sundrops	native	Herbaceous	–	Significantly Rare-Throughout	NO	YES
Poaceae	<i>Oplismenus setarius</i>	Woods-grass	native	Graminoid	–	Significantly Rare-Peripheral	YES	YES
Cactaceae	<i>Opuntia drummondii</i>	Dune Prickly-pear	native	Herbaceous	–	–	YES	YES
Osmundaceae	<i>Osmunda spectabilis</i>	American Royal Fern	native	Herbaceous	–	–	YES	YES
Osmundaceae	<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Panicum amarum</i> var. <i>amarulum</i>	Southern Seabeach Grass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Panicum amarum</i> var. <i>amarum</i>	Bitter Seabeach Grass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Panicum dichotomiflorum</i> var. <i>dichotomiflorum</i>	Spreading Panicgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Panicum virgatum</i> var. <i>spissum</i>	Tufted Switchgrass	native	Graminoid	–	–	YES	YES
Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	native	Vine	–	–	YES	YES
Poaceae	<i>Paspalum dilatatum</i> ssp. <i>dilatatum</i>	Dallis Grass	non-native	Graminoid	Rank 3	–	YES	NO
Poaceae	<i>Paspalum distichum</i>	Joint Paspalum	native	Graminoid	–	–	YES	YES

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Poaceae	<i>Paspalum notatum</i>	Bahia Grass	non-native	Graminoid	Rank 3	–	YES	YES
Poaceae	<i>Paspalum setaceum</i>	Slender Paspalum	native	Graminoid	–	–	YES	YES
Poaceae	<i>Paspalum urvillei</i>	Vasey Grass	non-native	Graminoid	Rank 3	–	YES	YES
Poaceae	<i>Paspalum vaginatum</i>	Sand Knotgrass	native	Graminoid	–	Significantly Rare-Peripheral	YES	NO
Passifloraceae	<i>Passiflora incarnata</i>	Maypops	native	Vine	–	–	YES	YES
Apocynaceae	<i>Patalias palustre</i>	Swallow-Wort	native	Vine	–	–	YES	YES
Lauraceae	<i>Persea palustris</i>	Swamp Bay	native	Tree	–	–	YES	YES
Polygonaceae	<i>Persicaria hydropiperoides</i>	Waterpepper	native	Herbaceous	–	–	YES	YES
Polygonaceae	<i>Persicaria pensylvanica</i>	Pinkweed	native	Herbaceous	–	–	NO	YES
Polygonaceae	<i>Persicaria punctata</i>	Dotted Smartweed	native	Herbaceous	–	–	YES	YES
Polygonaceae	<i>Persicaria sagittata</i>	Arrowleaf Tearthumb	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Phragmites australis</i>	Common Reed	non-native	Graminoid	Rank 1	–	YES	YES
Verbenaceae	<i>Phyla lanceolata</i>	Marsh Frogfruit	native	Herbaceous	–	–	YES	YES
Verbenaceae	<i>Phyla nodiflora</i> var. <i>nodiflora</i>	Creeping Frogfruit	native	Herbaceous	–	–	YES	YES
Solanaceae	<i>Physalis walteri</i>	Dune Ground-cherry	native	Herbaceous	–	–	YES	YES
Pinaceae	<i>Pinus elliotii</i>	Slash Pine	native	Tree	–	–	NO	YES
Pinaceae	<i>Pinus serotina</i>	Pond Pine	native	Tree	–	–	NO	YES
Pinaceae	<i>Pinus taeda</i>	Loblolly Pine	native	Tree	–	–	YES	YES
Poaceae	<i>Piptochaetium avenaceum</i>	Eastern Needlegrass	native	Graminoid	–	–	YES	YES
Asteraceae	<i>Pityopsis nervosa</i>	Grass-Leaved Golden-Aster	native	Herbaceous	–	–	YES	YES
Plantaginaceae	<i>Plantago lanceolata</i>	English Plantain	non-native	Herbaceous	–	–	YES	YES
Plantaginaceae	<i>Plantago virginica</i>	Virginia Plantain	native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Pluchea baccharis</i>	Rose Fleabane	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Pluchea camphorata</i>	Camphorweed	native	Herbaceous	–	–	YES	NO

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Asteraceae	<i>Pluchea foetida</i> var. <i>foetida</i>	Stinking Fleabane	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Pluchea odorata</i>	Southern Saltmarsh Fleabane	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky Bluegrass	non-native	Graminoid	Rank 3	–	YES	NO
Poaceae	<i>Poaceae</i>	Grass Family	native	Graminoid	–	–	YES	NO
Tetrachondraceae	<i>Polypremum procumbens</i>	Polypremum	native	Herbaceous	–	–	NO	YES
Haloragaceae	<i>Proserpinaca palustris</i>	Common Mermaid-weed	native	Herbaceous	–	–	YES	YES
Rosaceae	<i>Prunus caroliniana</i>	Carolina Laurel Cherry	native	Tree	–	–	NO	YES
Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	Eastern Wild Black Cherry	native	Tree	–	–	YES	YES
Apiaceae	<i>Ptilimnium capillaceum</i>	Eastern Bishopweed	native	Herbaceous	–	–	YES	YES
Fagaceae	<i>Quercus hemisphaerica</i>	Sand Laurel Oak	native	Tree	–	–	YES	YES
Fagaceae	<i>Quercus virginiana</i>	Live Oak, Encino	native	Tree	–	–	YES	YES
Anacardiaceae	<i>Rhus copallinum</i> var. <i>copallinum</i>	Eastern Winged Sumac	native	Tree	–	–	YES	YES
Cyperaceae ^G	<i>Rhynchospora caduca</i> ^G	Angle-stem Beaksedge ^G	native ^G	Graminoid ^G	–	–	NO ^G	YES ^G
Cyperaceae	<i>Rhynchospora colorata</i>	Narrowleaf Whitetop Sedge	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Rhynchospora miliacea</i>	Millet Beaksedge	native	Graminoid	–	–	NO	YES
Rosaceae ^G	<i>Rosa multiflora</i> ^G	Multiflora Rose ^G	non-native ^G	Shrub ^G	Rank 1 ^G	–	NO ^G	YES ^G
Rosaceae	<i>Rosa palustris</i>	Swamp Rose	native	Shrub	–	–	YES	YES
Lythraceae	<i>Rotala ramosior</i>	Toothcup	native	Herbaceous	–	–	YES	YES
Rosaceae	<i>Rubus pensilvanicus</i>	Eastern Blackberry	native	Herbaceous	–	–	YES	YES
Rosaceae	<i>Rubus trivialis</i>	Southern Dewberry	native	Herbaceous	–	–	YES	YES
Polygonaceae	<i>Rumex acetosella</i> ssp. <i>pyrenaicus</i>	Red Dock	non-native	Herbaceous	–	–	YES	YES
Polygonaceae	<i>Rumex floridanus</i>	Florida Dock	native	Herbaceous	–	–	NO	YES

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Arecaceae	<i>Sabal minor</i>	Dwarf Palmetto	native	Shrub	–	–	YES	YES
Gentianaceae	<i>Sabatia stellaris</i>	Annual Sea-pink	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Sacciolepis striata</i>	American Cupscale	native	Graminoid	–	–	YES	YES
Alismataceae	<i>Sagittaria graminea</i>	Grassleaf Arrowhead	native	Herbaceous	–	Poorly Known in NC	NO	YES
Chenopodiaceae	<i>Salicornia ambigua</i>	Woody Glasswort	native	Herbaceous	–	–	YES	YES
Chenopodiaceae	<i>Salicornia virginica</i>	Samphire	native	Herbaceous	–	–	NO	YES
Salicaceae	<i>Salix caroliniana</i>	Carolina Willow	native	Tree	–	–	YES	YES
Viburnaceae	<i>Sambucus canadensis</i>	Common Elderberry	native	Shrub	–	–	NO	YES
Primulaceae	<i>Samolus parviflorus</i>	Water-pimpernel	native	Herbaceous	–	–	NO	YES
Apiaceae	<i>Sanicula canadensis</i> var. <i>floridana</i>	Florida Sanicle	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Schizachyrium littorale</i>	Seaside Little Bluestem	native	Graminoid	–	Rare But Relatively Secure	YES	YES
Poaceae	<i>Schizachyrium scoparium</i> var. <i>scoparium</i>	Common Little Bluestem	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Schoenoplectus americanus</i>	Olney Threesquare	native	Graminoid	–	Poorly Known in NC	NO	YES
Cyperaceae	<i>Schoenoplectus pungens</i> var. <i>pungens</i>	Common Threesquare	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Schoenoplectus tabernaemontani</i>	Softstem Bulrush	native	Graminoid	–	–	YES	YES
Cyperaceae	<i>Scleria flaccida</i>	Flaccid Nutrush	native	Graminoid	–	–	YES	YES
Poaceae	<i>Setaria magna</i>	Saltmarsh Foxtail-grass	native	Graminoid	–	–	YES	NO
Poaceae	<i>Setaria parviflora</i>	Knotroot Bristlegrass	native	Graminoid	–	–	YES	YES
Cucurbitaceae ^G	<i>Sicyos angulatus</i> ^G	Bur-cucumber ^G	native ^G	Vine ^G	–	–	NO ^G	YES ^G
Iridaceae	<i>Sisyrinchium atlanticum</i>	Atlantic Blue-eyed-grass	native	Herbaceous	–	–	NO	YES
Smilacaceae	<i>Smilax auriculata</i>	Dune Greenbriar	native	Vine	–	–	YES	YES

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Smilacaceae	<i>Smilax bona-nox</i> var. <i>littoralis</i>	Maritime Catbriar	native	Vine	–	–	YES	YES
Smilacaceae	<i>Smilax glauca</i>	Whiteleaf Greenbriar	native	Vine	–	–	YES	YES
Smilacaceae	<i>Smilax laurifolia</i>	Blaspheme-vine	native	Vine	–	–	YES	YES
Smilacaceae	<i>Smilax rotundifolia</i>	Common Greenbriar	native	Vine	–	–	YES	YES
Smilacaceae	<i>Smilax smallii</i>	Jacksonbriar	native	Vine	–	–	YES	YES
Smilacaceae	<i>Smilax walteri</i>	Coral Greenbriar	native	Vine	–	–	YES	YES
Solanaceae	<i>Solanum carolinense</i> var. <i>carolinense</i>	Carolina Horse-nettle	native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Solidago fistulosa</i>	Hairy Pineywoods Goldenrod	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Solidago mexicana</i>	Southern Seaside Goldenrod	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Solidago odora</i>	Licorice Goldenrod	native	Herbaceous	–	–	NO	YES
Asteraceae	<i>Solidago sempervirens</i>	Northern Seaside Goldenrod	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Spartina alterniflora</i>	Saltmarsh Cordgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Spartina cynosuroides</i>	Giant Cordgrass	native	Graminoid	–	–	YES	NO
Poaceae	<i>Spartina patens</i>	Small Saltmeadow Cordgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Sphenopholis obtusata</i>	Prairie Wedgegrass	native	Graminoid	–	–	NO	YES
Orchidaceae	<i>Spiranthes cernua</i>	Nodding Ladies'-tresses	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Sporobolus indicus</i>	Smut Grass	native	Graminoid	–	–	YES	YES
Caryophyllaceae	<i>Stellaria media</i>	Common Chickweed	non-native	Herbaceous	Rank 2	–	YES	NO
Poaceae	<i>Stenotaphrum secundatum</i>	St. Augustine Grass	non-native	Graminoid	–	–	NO	YES
Caryophyllaceae	<i>Stipulicida setacea</i>	Coastal Plain Wireplant	native	Herbaceous	–	–	YES	YES
Fabaceae	<i>Strophostyles helvola</i>	Annual Sand Bean	native	Herbaceous	–	–	YES	YES
Cornaceae	<i>Swida foemina</i>	Southern Swamp Dogwood	native	Tree	–	–	YES	YES
Asteraceae	<i>Symphotrichum simmondsii</i>	Simmonds's Aster	native	Herbaceous	–	Rare But Relatively Secure	YES	YES

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Asteraceae	<i>Symphotrichum subulatum</i>	Eastern Saltmarsh Aster	native	Herbaceous	–	–	YES	YES
Asteraceae	<i>Symphotrichum tenuifolium</i>	Perennial Salt-marsh Aster	native	Herbaceous	–	–	YES	YES
Cupressaceae	<i>Taxodium distichum</i>	Bald-cypress	native	Tree	–	–	NO	YES
Lamiaceae	<i>Teucrium canadense</i> var. <i>canadense</i>	Common Germander	native	Herbaceous	–	–	NO	YES
Lamiaceae	<i>Teucrium canadense</i> var. <i>hypoleucum</i>	Southern Germander	native	Herbaceous	–	–	NO	YES
Thelypteridaceae	<i>Thelypteris palustris</i> var. <i>pubescens</i>	Marsh Fern	native	Herbaceous	–	–	YES	YES
Anacardiaceae	<i>Toxicodendron radicans</i> var. <i>radicans</i>	Eastern Poison Ivy	native	Vine	–	–	YES	YES
Lamiaceae	<i>Trichostema nesophilum</i>	Dune Blue Curls	native	Herbaceous	–	Special Concern-Vulnerable	YES	YES
Poaceae	<i>Triplasis purpurea</i> var. <i>purpurea</i>	Purple Sandgrass	native	Graminoid	–	–	YES	YES
Poaceae	<i>Tripsacum dactyloides</i> var. <i>dactyloides</i>	Gama Grass	native	Graminoid	–	–	YES	YES
Typhaceae	<i>Typha angustifolia</i>	Narrowleaf Cattail	native	Herbaceous	–	–	YES	YES
Typhaceae	<i>Typha domingensis</i>	Southern Cattail	native	Herbaceous	–	–	YES	YES
Typhaceae	<i>Typha latifolia</i>	Common Cattail	native	Herbaceous	–	–	YES	YES
Poaceae	<i>Uniola paniculata</i>	Sea Oats	native	Graminoid	–	–	YES	YES
Lentibulariaceae	<i>Utricularia gibba</i>	Shortspur Creeping Bladderwort	native	Herbaceous	–	–	YES	YES
Ericaceae	<i>Vaccinium arboreum</i>	Sparkleberry	native	Tree	–	–	YES	YES
Ericaceae ^G	<i>Vaccinium formosum</i> ^G	Southern Highbush Blueberry ^G	native ^G	Shrub ^G	–	–	YES ^G	YES ^G
Ericaceae	<i>Vaccinium fuscatum</i>	Hairy Highbush Blueberry	native	Shrub	–	–	YES	YES
Ericaceae ^G	<i>Vaccinium tenellum</i> ^G	Southern Dwarf Blueberry ^G	native ^G	Shrub ^G	–	–	NO ^G	YES ^G
Vitaceae	<i>Vitis aestivalis</i> var. <i>aestivalis</i>	Summer Grape	native	Vine	–	–	YES	YES

Family	Scientific Name	Common Name	Native Status	Growth Form	State Invasive Status ^A	North Carolina Rare and Protected Status ^B	Present in 2019 Monitoring Plots	Present in 2023 Monitoring Plots
Vitaceae	<i>Vitis labrusca</i>	Fox Grape	native	Vine	–	–	YES	YES
Agavaceae	<i>Yucca filamentosa</i>	Curlyleaf Yucca	native	Shrub	–	–	YES	YES
Rutaceae	<i>Zanthoxylum clava-herculis</i>	Southern Toothache Tree	native	Tree	–	–	YES	YES

Table 5. 2023 vascular plant species richness across multiple spatial scales of Southeast Coast Network vegetation plots within Cape Hatteras National Seashore. The data are summarized by total number of native versus non-native species and by vegetative growth forms (T: tree, S: shrub, V: vine, H: herbs/forbs, G: graminoids). Growth form information and nativity was obtained from the USDA Plants Database (USDA 2025). Cycle 1 plots were established in 2023. Cycle 2 plots were established and sampled in 2019 and 2023.

Broad Habitat Type	Cycle	Plot	Native	Non-native	Unknown	Full Plot 400 m ² (4,305.6 ft ²)					Modular 100 m ² (1,076.3 ft ²)					Nested 10 m ² (107.6 ft ²)					Nested 1 m ² (10.8 ft ²)				
						T	S	V	H	G	T	S	V	H	G	T	S	V	H	G	T	S	V	H	G
Nontidal Wetland	1	BOIS015	29.0	1.0	0.0	4.0	2.0	3.0	11.0	10.0	3.0	2.0	1.8	8.0	6.5	1.4	1.3	1.0	2.0	2.4	0.1	0.4	0.8	0.6	1.5
	1	HAIS009	45.0	2.0	0.0	4.0	1.0	3.0	21.0	18.0	3.3	0.8	1.8	11.0	11.0	1.8	0.4	0.5	5.5	5.3	0.5	0.3	0.3	2.0	2.8
	1	HAIS016	30.0	2.0	0.0	4.0	2.0	7.0	10.0	9.0	3.3	1.3	4.8	5.0	5.0	1.6	1.1	2.6	2.3	2.0	0.5	0.9	1.3	2.0	1.0
	1	HAIS017	36.0	5.0	0.0	4.0	2.0	8.0	11.0	16.0	2.8	2.0	5.8	6.8	8.5	0.9	1.0	2.8	3.0	4.6	0.3	0.6	1.3	1.5	2.1
	1	OCIS003	26.0	0.0	0.0	4.0	2.0	4.0	7.0	9.0	3.3	1.5	2.5	4.3	5.5	1.1	0.6	1.4	1.5	3.1	0.1	0.0	0.6	0.8	1.8
	1	OCIS009	34.0	0.0	0.0	4.0	3.0	6.0	11.0	10.0	4.0	2.5	5.5	8.0	6.5	1.9	1.3	3.6	2.6	2.6	0.8	0.4	2.4	1.0	1.1
	2	BOIS003	39.0	2.0	0.0	4.0	3.0	8.0	16.0	10.0	3.0	1.8	5.3	10.8	4.0	1.5	1.1	3.8	6.1	2.4	0.5	0.5	2.0	3.3	1.6
	2	BOIS005	45.0	2.0	0.0	1.0	2.0	7.0	21.0	16.0	1.0	1.3	5.0	16.0	10.8	0.8	1.0	2.8	7.5	4.6	0.5	0.1	1.9	3.8	1.8
	2	BOIS006	29.0	1.0	0.0	6.0	3.0	4.0	7.0	10.0	3.8	1.5	2.5	4.0	6.3	1.9	1.3	1.9	1.6	2.5	0.6	0.6	1.3	0.5	1.9
	2	BOIS007	38.0	1.0	0.0	10.0	2.0	9.0	10.0	8.0	7.3	2.0	6.3	8.0	4.3	3.8	1.4	3.6	3.1	1.4	2.0	0.3	1.4	2.0	1.3
	2	BOIS008	34.0	3.0	0.0	1.0	3.0	7.0	12.0	14.0	1.0	2.0	2.8	8.3	8.8	0.5	0.6	1.6	4.9	5.1	0.1	0.0	1.0	2.9	3.4
	2	BUXT002	40.0	0.0	0.0	9.0	2.0	6.0	15.0	8.0	5.8	2.0	3.5	7.5	5.0	3.6	1.4	2.9	4.0	3.1	2.3	0.6	2.3	2.0	1.9
	2	BUXT004	47.0	1.0	0.0	6.0	2.0	6.0	16.0	18.0	2.8	1.3	4.3	9.8	11.0	1.5	0.9	3.0	5.0	6.0	0.4	0.4	2.4	3.6	3.8
	2	BUXT008	28.0	0.0	0.0	1.0	0.0	2.0	13.0	12.0	1.0	0.0	2.0	9.3	5.5	0.4	0.0	1.5	5.5	3.1	0.0	0.0	0.9	2.9	2.3
	2	BUXT009	49.0	0.0	0.0	10.0	3.0	8.0	16.0	12.0	6.0	1.5	5.0	8.3	5.8	3.3	0.9	2.1	4.1	3.4	1.5	0.5	1.4	3.1	1.3
	2	BUXT065	34.0	2.0	0.0	2.0	2.0	7.0	17.0	8.0	0.5	0.5	4.8	11.3	4.5	0.1	0.3	2.0	5.0	2.8	0.1	0.1	1.4	2.9	2.3
	2	BUXT067	37.0	0.0	0.0	4.0	1.0	3.0	17.0	12.0	2.5	1.0	1.0	10.3	9.0	1.5	0.5	0.1	4.8	4.8	0.6	0.1	0.1	3.0	3.1
	2	HAIS001	30.0	1.0	0.0	4.0	3.0	5.0	8.0	11.0	3.0	1.5	2.5	5.3	5.0	1.9	1.0	1.6	2.5	2.3	0.9	0.3	1.4	1.4	1.3
	2	OCIS001	35.0	1.0	0.0	4.0	1.0	6.0	13.0	12.0	3.5	1.0	4.3	6.8	6.8	2.3	1.0	2.6	2.9	3.5	1.4	0.8	1.4	1.3	1.5
	2	OCIS008	45.0	2.0	0.0	4.0	1.0	9.0	15.0	18.0	3.3	1.0	7.3	9.0	10.3	3.0	1.0	5.0	4.1	3.6	2.6	1.0	3.3	2.8	2.0

Broad Habitat Type	Cycle	Plot	Native	Non-native	Unknown	Full Plot 400 m ² (4,305.6 ft ²)					Modular 100 m ² (1,076.3 ft ²)					Nested 10 m ² (107.6 ft ²)					Nested 1 m ² (10.8 ft ²)				
						T	S	V	H	G	T	S	V	H	G	T	S	V	H	G	T	S	V	H	G
	2	OCIS010	39.0	0.0	1.0	5.0	1.0	5.0	17.0	12.0	4.5	1.0	3.5	10.8	6.8	2.3	0.9	2.4	4.1	3.4	1.6	0.8	1.3	2.1	1.8
	–	average	36.6	1.2	0.0	4.5	2.0	5.9	13.5	12.0	3.3	1.4	3.9	8.5	7.0	1.8	0.9	2.3	3.9	3.4	0.8	0.4	1.4	2.2	2.0
	–	Standard deviation	6.7	1.3	0.2	2.6	0.9	2.1	4.1	3.4	1.7	0.6	1.7	2.8	2.3	1.0	0.4	1.2	1.6	1.2	0.8	0.3	0.7	1.0	0.7
Tidal Wetland	1	BOIS067	5.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	2.0	2.3	0.0	0.0	0.0	1.3	1.5	0.0	0.0	0.0	1.1	1.3
	1	BOIS068	5.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.4	1.5	0.0	0.0	0.0	0.1	1.3
	1	BOIS069	5.0	0.0	0.0	0.0	1.0	0.0	0.0	4.0	0.0	1.0	0.0	0.0	3.3	0.0	0.5	0.0	0.0	3.1	0.0	0.1	0.0	0.0	2.9
	1	HAIS065	7.0	1.0	0.0	0.0	1.0	0.0	2.0	5.0	0.0	1.0	0.0	1.8	3.3	0.0	1.0	0.0	1.0	2.5	0.0	0.5	0.0	0.9	1.9
	1	HAIS066	8.0	0.0	0.0	0.0	1.0	1.0	1.0	5.0	0.0	0.3	0.3	1.0	3.8	0.0	0.0	0.0	0.4	3.1	0.0	0.0	0.0	0.0	2.3
	1	HAIS067	5.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0	0.0	0.0	1.0	3.8	0.0	0.0	0.0	0.5	3.1	0.0	0.0	0.0	0.0	1.5
	1	HAIS068	5.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	1.8	3.0	0.0	0.0	0.0	0.5	2.8	0.0	0.0	0.0	0.5	1.9
	2	BOIS066	4.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	0.9	2.0	0.0	0.0	0.0	0.5	1.5
	2	OCIS065	12.0	0.0	0.0	0.0	1.0	1.0	5.0	5.0	0.0	0.3	1.0	3.0	4.3	0.0	0.1	0.6	1.6	3.5	0.0	0.0	0.6	1.3	2.9
	2	OCIS066	24.0	0.0	0.0	1.0	1.0	2.0	11.0	9.0	0.8	0.8	2.0	9.8	7.0	0.4	0.4	2.0	7.6	5.6	0.1	0.0	1.9	5.8	5.1
	2	OCIS067	21.0	2.0	0.0	1.0	1.0	2.0	8.0	11.0	0.3	0.3	0.8	4.3	6.0	0.0	0.0	0.0	0.3	3.5	0.0	0.0	0.0	0.0	3.4
	2	OCIS069	19.0	0.0	0.0	1.0	2.0	2.0	7.0	7.0	0.3	1.0	2.0	4.5	5.5	0.1	0.3	1.5	1.8	3.5	0.0	0.0	0.6	1.4	2.6
	2	OCIS071	13.0	1.0	0.0	1.0	0.0	0.0	4.0	9.0	0.3	0.0	0.0	2.0	6.0	0.0	0.0	0.0	0.4	3.9	0.0	0.0	0.0	0.0	3.1
	2	OCIS072	19.0	0.0	0.0	0.0	0.0	2.0	9.0	8.0	0.0	0.0	2.0	7.5	6.5	0.0	0.0	1.9	6.1	4.8	0.0	0.0	1.3	5.1	3.6
	–	average	10.9	0.3	0.0	0.3	0.6	0.7	3.9	5.6	0.1	0.3	0.6	2.9	4.3	0.0	0.2	0.4	1.6	3.2	0.0	0.0	0.3	1.2	2.5
	–	standard deviation	7.1	0.6	0.0	0.5	0.6	0.9	3.5	2.7	0.2	0.4	0.8	2.8	1.6	0.1	0.3	0.8	2.3	1.1	0.0	0.1	0.6	1.9	1.1
Upland Forest and Shrubland	1	BOIS097	38.0	2.0	0.0	7.0	3.0	6.0	12.0	12.0	4.8	1.5	4.0	5.5	6.5	2.4	1.0	2.4	1.8	2.8	1.5	0.5	1.6	0.6	1.6
	1	BOIS098	26.0	0.0	0.0	8.0	2.0	8.0	2.0	6.0	5.8	2.0	6.0	1.3	2.3	3.8	1.1	3.3	0.5	0.6	2.1	0.8	2.1	0.5	0.3
	1	BOIS100	22.0	0.0	0.0	5.0	3.0	5.0	2.0	7.0	4.0	1.3	2.5	0.8	3.3	2.1	0.4	1.6	0.1	1.4	1.1	0.1	1.3	0.1	0.9
	1	OCIS113	32.0	0.0	0.0	7.0	1.0	8.0	6.0	10.0	6.3	1.0	6.0	3.5	3.8	4.4	0.5	3.5	1.4	1.4	2.5	0.4	2.1	0.3	0.5

Broad Habitat Type	Cycle	Plot	Native	Non-native	Unknown	Full Plot 400 m ² (4,305.6 ft ²)					Modular 100 m ² (1,076.3 ft ²)					Nested 10 m ² (107.6 ft ²)					Nested 1 m ² (10.8 ft ²)				
						T	S	V	H	G	T	S	V	H	G	T	S	V	H	G	T	S	V	H	G
	1	OCIS115	13.0	0.0	0.0	4.0	1.0	5.0	2.0	1.0	3.5	1.0	4.5	0.8	0.3	2.4	0.9	3.6	0.1	0.0	1.5	0.1	1.9	0.0	0.0
	1	OCIS116	11.0	0.0	0.0	4.0	0.0	6.0	1.0	0.0	2.5	0.0	5.5	0.0	0.0	1.8	0.0	3.9	0.1	0.0	0.8	0.0	2.3	0.0	0.0
	2	BUXT003	39.0	0.0	0.0	9.0	3.0	8.0	7.0	12.0	7.3	2.3	5.5	3.3	5.8	5.5	1.3	3.9	1.3	2.5	4.3	0.4	2.6	0.4	1.1
	2	BUXT005	33.0	0.0	1.0	8.0	2.0	8.0	9.0	7.0	7.5	1.8	6.8	2.5	4.0	4.4	1.0	4.8	0.9	1.9	2.5	0.1	3.4	0.5	1.4
	2	BUXT006	32.0	0.0	0.0	10.0	5.0	5.0	5.0	7.0	8.8	1.8	5.0	3.5	5.5	5.3	0.4	4.0	1.8	3.4	3.6	0.0	2.8	1.0	2.0
	2	BUXT007	34.0	1.0	0.0	7.0	4.0	7.0	6.0	11.0	6.3	1.8	6.0	3.3	6.3	3.5	1.1	3.9	1.8	2.4	2.0	0.5	1.6	0.6	1.0
	2	BUXT010	35.0	0.0	0.0	8.0	2.0	8.0	9.0	8.0	6.5	1.3	4.8	2.8	2.0	4.0	0.8	2.0	1.3	1.1	1.9	0.4	0.6	0.8	0.6
	2	BUXT011	28.0	0.0	0.0	9.0	2.0	7.0	9.0	1.0	7.0	2.0	5.8	3.5	1.0	4.0	1.5	4.5	1.8	0.8	3.1	1.0	4.0	1.1	0.3
	2	BUXT013	40.0	0.0	0.0	10.0	4.0	9.0	8.0	9.0	9.0	2.5	6.5	4.5	6.8	6.4	1.4	4.8	2.0	3.0	3.8	0.5	2.6	0.9	1.9
	2	BUXT014	33.0	0.0	0.0	9.0	2.0	8.0	10.0	4.0	7.5	1.5	5.8	6.5	1.3	5.0	0.8	3.6	2.1	0.4	2.9	0.6	1.3	0.8	0.1
	–	average	29.7	0.2	0.1	7.5	2.4	7.0	6.3	6.8	6.2	1.5	5.3	3.0	3.5	3.9	0.9	3.5	1.2	1.5	2.4	0.4	2.2	0.5	0.8
	–	standard deviation	9.0	0.6	0.3	2.0	1.3	1.4	3.5	4.0	1.9	0.6	1.1	1.8	2.4	1.4	0.4	1.0	0.7	1.1	1.0	0.3	0.9	0.4	0.7
Upland Open Grassland	2	BOIS001	30.0	1.0	0.0	2.0	1.0	2.0	13.0	13.0	0.8	0.8	1.0	9.0	7.0	0.0	0.3	0.4	5.0	3.1	0.0	0.0	0.3	2.8	2.3
	2	BOIS002	17.0	0.0	0.0	1.0	1.0	1.0	8.0	6.0	0.3	0.5	0.3	2.8	3.5	0.0	0.1	0.0	2.6	1.6	0.0	0.0	0.0	1.3	1.0
	2	BOIS004	33.0	1.0	0.0	2.0	1.0	2.0	16.0	13.0	0.5	0.5	0.8	12.5	9.0	0.1	0.1	0.4	6.6	5.0	0.1	0.0	0.4	3.3	3.1
	2	BOIS013	20.0	1.0	0.0	1.0	1.0	0.0	9.0	10.0	0.3	0.5	0.0	6.8	5.3	0.1	0.1	0.0	3.0	3.0	0.0	0.0	0.0	1.1	2.0
	2	BUXT068	30.0	3.0	0.0	6.0	1.0	3.0	14.0	9.0	3.8	0.3	2.5	7.3	4.8	1.4	0.1	1.4	4.3	2.6	0.5	0.0	0.5	2.5	2.0
	2	BUXT069	17.0	4.0	0.0	1.0	0.0	2.0	13.0	5.0	0.5	0.0	1.3	10.5	3.5	0.3	0.0	1.0	7.1	2.5	0.0	0.0	1.0	3.5	2.4
	2	BUXT071	21.0	1.0	0.0	3.0	0.0	1.0	13.0	5.0	1.5	0.0	0.3	10.8	2.0	0.5	0.0	0.0	8.0	1.5	0.4	0.0	0.0	5.4	1.0
	2	BUXT072	27.0	1.0	0.0	2.0	1.0	4.0	14.0	7.0	1.8	0.3	2.5	11.8	4.5	0.5	0.1	1.0	4.5	2.9	0.0	0.0	0.4	2.0	2.3
	2	BUXT074	18.0	0.0	0.0	1.0	0.0	0.0	12.0	5.0	0.3	0.0	0.0	7.0	3.0	0.0	0.0	0.0	5.5	1.9	0.0	0.0	0.0	3.6	1.4
	2	BUXT075	39.0	0.0	0.0	3.0	2.0	1.0	18.0	15.0	2.3	1.3	0.3	9.8	6.8	1.0	0.5	0.1	5.0	2.8	0.4	0.0	0.0	3.0	1.8
	2	HAIS002	17.0	1.0	0.0	0.0	1.0	0.0	11.0	6.0	0.0	0.8	0.0	8.5	4.5	0.0	0.1	0.0	5.5	2.6	0.0	0.0	0.0	3.4	1.6

Broad Habitat Type	Cycle	Plot	Native	Non-native	Unknown	Full Plot 400 m ² (4,305.6 ft ²)					Modular 100 m ² (1,076.3 ft ²)					Nested 10 m ² (107.6 ft ²)					Nested 1 m ² (10.8 ft ²)				
						T	S	V	H	G	T	S	V	H	G	T	S	V	H	G	T	S	V	H	G
	2	HAIS003	17.0	1.0	0.0	0.0	1.0	0.0	12.0	5.0	0.0	0.5	0.0	9.8	3.8	0.0	0.3	0.0	7.6	2.3	0.0	0.3	0.0	4.3	1.8
	2	HAIS004	37.0	3.0	0.0	3.0	1.0	5.0	16.0	15.0	1.8	0.5	2.5	10.5	7.8	1.1	0.3	1.3	5.5	3.1	0.4	0.1	0.6	2.5	1.8
	2	HAIS005	26.0	2.0	0.0	2.0	2.0	4.0	13.0	7.0	1.5	1.0	2.5	8.0	4.8	0.8	0.4	0.6	4.5	2.0	0.4	0.1	0.4	2.6	1.1
	2	HAIS006	22.0	1.0	0.0	2.0	0.0	1.0	14.0	6.0	0.5	0.0	0.5	10.0	4.3	0.0	0.0	0.3	7.8	2.5	0.0	0.0	0.3	4.6	1.9
	2	HAIS007	17.0	2.0	1.0	1.0	0.0	2.0	14.0	3.0	0.3	0.0	1.3	10.0	1.8	0.0	0.0	0.5	6.4	1.4	0.0	0.0	0.3	3.6	1.1
	2	HAIS008	23.0	2.0	0.0	1.0	0.0	2.0	14.0	8.0	0.3	0.0	1.0	11.3	4.0	0.1	0.0	0.3	6.3	2.6	0.0	0.0	0.0	5.0	1.6
	2	OCIS002	26.0	3.0	0.0	4.0	1.0	5.0	13.0	6.0	3.3	0.8	3.8	9.8	3.8	1.3	0.4	2.0	4.1	1.5	0.1	0.3	1.5	2.9	1.3
	2	OCIS004	18.0	1.0	0.0	0.0	1.0	0.0	13.0	5.0	0.0	1.0	0.0	10.3	4.3	0.0	0.6	0.0	7.3	3.0	0.0	0.1	0.0	3.9	1.9
	2	OCIS005	25.0	1.0	0.0	2.0	1.0	2.0	15.0	6.0	1.3	1.0	1.0	11.3	3.5	0.5	0.1	0.3	6.1	2.4	0.1	0.0	0.3	3.0	1.5
	2	OCIS006	22.0	1.0	0.0	1.0	1.0	1.0	16.0	4.0	0.3	0.3	1.0	11.5	3.3	0.1	0.1	0.9	7.6	1.8	0.1	0.0	0.3	4.3	1.4
	2	OCIS007	28.0	1.0	0.0	1.0	1.0	5.0	13.0	9.0	1.0	1.0	3.5	10.0	4.5	0.3	0.8	1.8	3.5	1.5	0.1	0.8	1.0	1.6	1.3
	–	average	24.1	1.4	0.0	1.8	0.8	2.0	13.4	7.6	1.0	0.5	1.2	9.5	4.5	0.4	0.2	0.5	5.6	2.4	0.1	0.1	0.3	3.2	1.7
	–	standard deviation	6.7	1.1	0.2	1.4	0.6	1.7	2.2	3.5	1.0	0.4	1.2	2.2	1.8	0.5	0.2	0.6	1.6	0.8	0.2	0.2	0.4	1.1	0.5

Table 6. 2023 constancy and average cover class values for all vascular plant species observed in 71 Southeast Coast Network vegetation monitoring plots in Cape Hatteras National Seashore. Broad Habitat Type codes are as follows: NW = Nontidal Wetlands (21 plots), TW = Tidal Wetlands (14 plots), UFS = Upland Forests and Shrublands (14 plots), and UOG = Upland Open Grasslands (22 plots). Cover classes are as follows: 1: 0–0.1%, 2: 0.1–1%, 3: 1–2%, 4: 2–5%, 5: 5–10%, 6: 10–25%, 7: 25–50%, 8: 50–75%, 9: 75–95%, 10: 95–100%.

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Acer rubrum</i>	5	2	–	–	–	–	–	–
<i>Agalinis maritima</i> var. <i>grandiflora</i>	–	–	7	1	–	–	–	–
<i>Ambrosia artemisiifolia</i>	10	1	–	–	–	–	14	1
<i>Amelanchier canadensis</i>	14	2	–	–	7	2	–	–
<i>Anchistea virginica</i>	10	1	–	–	14	2	–	–
<i>Andropogon cretaceus</i>	5	1	–	–	7	1	–	–
<i>Andropogon tenuispatheus</i>	62	2	21	2	–	–	14	1
<i>Andropogon virginicus</i> var. <i>decipiens</i>	14	2	–	–	36	1	32	2
<i>Andropogon virginicus</i> var. <i>virginicus</i>	–	–	–	–	7	1	–	–
<i>Apocynum cannabinum</i>	5	1	–	–	7	1	–	–
<i>Aronia arbutifolia</i>	5	1	–	–	14	1	–	–
<i>Asclepias lanceolata</i>	10	1	–	–	–	–	–	–
Asteraceae	5	1	–	–	7	1	–	–
<i>Atriplex prostrata</i>	5	1	–	–	–	–	–	–
<i>Baccharis angustifolia</i>	5	2	7	1	–	–	–	–
<i>Baccharis halimifolia</i>	81	5	21	2	14	1	9	1
<i>Bacopa monnieri</i>	5	1	–	–	–	–	–	–
<i>Benthamidia florida</i>	–	–	–	–	7	2	–	–
<i>Berchemia scandens</i>	14	2	–	–	36	2	–	–
<i>Boehmeria cylindrica</i>	38	2	–	–	7	1	–	–
<i>Bolboschoenus robustus</i>	14	1	29	2	–	–	–	–
<i>Borrchia frutescens</i>	29	2	57	5	–	–	–	–
<i>Bulbostylis ciliatifolia</i>	–	–	–	–	–	–	5	1
<i>Cakile</i> [<i>edentula</i> + <i>harperi</i>]	–	–	–	–	–	–	18	1
<i>Callicarpa americana</i>	–	–	–	–	14	1	5	1
<i>Carex comosa</i>	5	1	–	–	–	–	–	–
<i>Carex floridana</i>	–	–	–	–	7	1	–	–
<i>Carex longii</i>	43	2	–	–	36	1	5	1
<i>Carex lupulina</i>	10	2	–	–	–	–	–	–
<i>Carex stipata</i> var. <i>maxima</i>	5	1	–	–	–	–	–	–
<i>Carex striatula</i>	5	1	–	–	–	–	–	–
<i>Carpinus caroliniana</i> var. <i>caroliniana</i>	10	2	–	–	29	4	–	–
<i>Cartrema americanum</i>	–	–	–	–	14	1	–	–
<i>Cenchrus tribuloides</i>	10	1	–	–	–	–	73	2
<i>Centella asiatica</i>	71	2	14	2	29	2	5	1
<i>Chasmanthium laxum</i>	14	1	–	–	50	3	–	–
<i>Chasmanthium sessiliflorum</i> var. <i>sessiliflorum</i>	5	1	–	–	29	2	–	–
<i>Chimaphila maculata</i>	–	–	–	–	7	1	–	–

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Chrysopsis gossypina</i>	–	–	–	–	–	–	5	1
<i>Cicuta maculata</i> var. <i>maculata</i>	5	2	–	–	–	–	–	–
<i>Cirsium horridulum</i> var. <i>horridulum</i>	19	1	–	–	29	2	41	2
<i>Cladium jamaicense</i>	24	2	21	2	–	–	–	–
<i>Clitoria mariana</i> var. <i>mariana</i>	–	–	–	–	–	–	5	1
<i>Coleataenia anceps</i> ssp. <i>anceps</i>	10	4	–	–	–	–	–	–
<i>Commelina erecta</i> var. <i>angustifolia</i>	24	1	–	–	–	–	82	2
<i>Convolvulus soldanella</i>	–	–	–	–	–	–	5	1
<i>Croton punctatus</i>	5	1	–	–	–	–	41	2
<i>Cyperus croceus</i>	5	1	–	–	–	–	–	–
<i>Cyperus grayi</i>	–	–	–	–	–	–	36	1
<i>Cyperus haspan</i>	5	1	–	–	–	–	–	–
<i>Cyperus polystachyos</i>	–	–	7	1	–	–	–	–
<i>Cyperus retrorsus</i>	10	1	–	–	–	–	14	1
<i>Danthonia sericea</i>	–	–	–	–	7	1	–	–
<i>Desmodium glabellum</i>	–	–	–	–	14	1	–	–
<i>Desmodium paniculatum</i> var. <i>paniculatum</i>	10	1	–	–	14	1	–	–
<i>Dichantherium aciculare</i>	5	1	–	–	7	1	–	–
<i>Dichantherium acuminatum</i> var. <i>acuminatum</i>	19	2	–	–	21	1	–	–
<i>Dichantherium angustifolium</i>	10	2	–	–	14	2	9	1
<i>Dichantherium arenicoloides</i>	–	–	–	–	7	1	18	1
<i>Dichantherium boscii</i>	–	–	–	–	7	1	–	–
<i>Dichantherium caerulescens</i>	10	2	–	–	7	1	–	–
<i>Dichantherium commutatum</i> var. <i>commutatum</i>	19	1	–	–	43	2	14	1
<i>Dichantherium dichotomum</i> var. <i>dichotomum</i>	–	–	–	–	29	1	5	1
<i>Dichantherium laxiflorum</i>	10	1	–	–	21	2	–	–
<i>Dichantherium meridionale</i>	5	1	–	–	–	–	–	–
<i>Dichantherium neuranthum</i>	–	–	–	–	–	–	5	1
<i>Dichantherium portoricense</i> ssp. <i>patulum</i>	5	1	–	–	–	–	–	–
<i>Dichantherium scoparium</i>	29	1	–	–	21	1	–	–
<i>Dichantherium tenue</i>	–	–	–	–	–	–	5	1
<i>Digitaria sanguinalis</i>	5	1	–	–	–	–	–	–
<i>Diodia virginiana</i>	14	1	–	–	–	2	–	–
<i>Diospyros virginiana</i>	14	2	–	–	50	–	–	–
<i>Distichlis spicata</i>	14	2	79	5	–	–	–	–
<i>Echinochloa walteri</i>	5	1	–	–	–	–	–	–
<i>Eclipta prostrata</i>	5	1	–	–	–	–	–	–
<i>Edrastima uniflora</i>	–	–	7	1	–	–	–	–
<i>Elaeagnus pungens</i>	–	–	–	–	7	1	–	–
<i>Eleocharis ambigens</i>	5	2	–	–	–	–	–	–
<i>Eleocharis cellulosa</i>	–	–	14	2	–	–	–	–

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Eleocharis fallax</i>	5	1	14	2	–	–	–	–
<i>Eleocharis montevidensis</i>	29	2	–	–	14	1	9	1
<i>Eleocharis palustris</i>	5	2	–	–	–	–	–	–
<i>Eleocharis rostellata</i>	19	2	14	1	–	–	–	–
<i>Eleocharis tuberculosa</i>	–	–	–	–	7	1	–	–
<i>Elephantopus carolinianus</i>	–	–	–	–	7	1	–	–
<i>Elephantopus tomentosus</i>	5	1	–	–	14	2	–	–
<i>Eleusine indica</i>	5	1	–	–	–	–	–	–
<i>Elymus glabriflorus</i> var. <i>glabriflorus</i>	10	1	–	–	–	–	5	1
<i>Elymus virginicus</i>	10	1	–	–	–	–	–	–
<i>Eragrostis spectabilis</i>	5	1	–	–	7	1	55	2
<i>Erechtites hieraciifolius</i>	5	1	–	–	–	–	–	–
<i>Eremochloa ophiuroides</i>	10	2	–	–	–	–	36	5
<i>Erianthus giganteus</i>	19	1	–	–	21	1	5	1
<i>Erigeron pusillus</i>	19	1	–	–	7	1	91	2
<i>Erigeron vernus</i>	–	–	–	–	7	1	–	–
<i>Euonymus americanus</i>	–	–	–	–	7	1	–	–
<i>Eupatorium album</i>	5	1	–	–	–	–	–	–
<i>Eupatorium capillifolium</i>	14	2	7	1	–	–	–	–
<i>Eupatorium hyssopifolium</i>	10	1	–	–	21	1	–	–
<i>Eupatorium maritimum</i>	5	1	–	–	–	–	–	–
<i>Eupatorium pilosum</i>	5	1	–	–	–	–	–	–
<i>Euphorbia</i> [bombensis + <i>polygonifolia</i>]	5	1	–	–	–	–	86	2
<i>Eustachys petraea</i>	24	1	–	–	14	1	32	2
<i>Euthamia caroliniana</i>	14	2	–	–	–	–	5	1
<i>Festuca octoflora</i> var. <i>octoflora</i>	5	1	–	–	–	–	9	1
<i>Festuca rubra</i>	19	2	14	1	–	–	5	1
<i>Fimbristylis castanea</i>	38	2	43	4	–	–	14	1
<i>Gaillardia pulchella</i> var. <i>drummondii</i>	5	2	–	–	–	–	45	3
<i>Galactia volubilis</i>	24	2	–	–	7	1	14	1
<i>Galium bermudense</i>	5	1	–	–	57	2	9	1
<i>Galium obtusum</i> var. <i>filifolium</i>	–	–	–	–	14	1	–	–
<i>Galium pilosum</i>	–	–	–	–	7	1	–	–
<i>Galium tinctorium</i> var. <i>floridanum</i>	29	1	–	–	–	–	–	–
<i>Galium uniflorum</i>	5	1	–	–	7	1	–	–
<i>Gamochaeta pensylvanica</i>	–	–	–	–	–	–	5	1
<i>Gamochaeta purpurea</i>	14	1	–	–	–	–	23	1
<i>Gelsemium sempervirens</i>	14	1	–	–	57	3	–	–
<i>Glyceria septentrionalis</i>	5	1	–	–	–	–	–	–
<i>Gonolobus suberosus</i> var. <i>suberosus</i>	5	1	–	–	–	–	–	–
<i>Heterotheca subaxillaris</i>	19	1	–	–	–	–	100	4
<i>Hexasepalum teres</i>	10	1	–	–	14	1	45	2
<i>Hibiscus moscheutos</i>	14	1	14	1	–	–	–	–

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Hieracium gronovii</i>	5	1	–	–	14	1	5	1
<i>Hydrocotyle bonariensis</i>	38	2	7	1	7	1	91	4
<i>Hydrocotyle umbellata</i>	38	2	14	2	–	–	–	–
<i>Hydrocotyle verticillata</i>	14	2	–	–	–	–	–	–
<i>Hypericum gentianoides</i>	5	1	–	–	7	1	14	1
<i>Hypericum hypericoides</i>	24	1	–	–	43	1	9	1
<i>Hypoxis wrightii</i>	–	–	–	–	7	1	–	–
<i>Ilex glabra</i>	5	4	–	–	7	4	–	–
<i>Ilex opaca</i>	5	1	–	–	50	3	–	–
<i>Ilex vomitoria</i>	76	5	–	–	100	6	36	2
<i>Ipomoea sagittata</i>	52	2	21	2	–	–	5	1
<i>Iresine rhizomatosa</i>	19	2	–	–	–	–	–	–
<i>Iva frutescens</i> var. <i>frutescens</i>	33	3	36	4	–	–	–	–
<i>Iva imbricata</i>	–	–	–	–	–	–	18	2
<i>Juncus biflorus</i>	14	1	–	–	–	–	–	–
<i>Juncus coriaceus</i>	29	1	–	–	–	–	5	1
<i>Juncus dichotomus</i>	19	1	–	–	29	1	9	1
<i>Juncus effusus</i> ssp. <i>solutus</i>	–	–	–	–	7	1	–	–
<i>Juncus megacephalus</i>	38	2	14	1	14	1	9	1
<i>Juncus roemerianus</i>	62	5	57	5	7	1	5	1
<i>Juncus scirpoides</i> var. <i>scirpoides</i>	–	–	–	–	7	1	–	–
<i>Juniperus silicicola</i>	76	6	7	1	93	6	82	5
<i>Kosteletzkya pentacarpos</i>	52	2	36	2	–	–	–	–
<i>Lactuca graminifolia</i> var. <i>graminifolia</i>	10	1	–	–	–	–	27	1
<i>Lechea mucronata</i>	–	–	–	–	7	1	–	–
<i>Leersia oryzoides</i>	19	1	–	–	–	–	–	–
<i>Leersia virginica</i>	29	3	–	–	–	–	–	–
<i>Lepidium virginicum</i> var. <i>virginicum</i>	5	1	–	–	–	–	18	1
<i>Linaria canadensis</i>	5	1	–	–	–	–	–	–
<i>Linum curtissii</i>	5	1	–	–	–	–	5	1
<i>Linum striatum</i>	–	–	–	–	–	–	5	1
<i>Lonicera japonica</i>	33	2	–	–	7	1	–	–
<i>Lonicera sempervirens</i>	–	–	–	–	7	1	–	–
<i>Lorinseria areolata</i>	–	–	–	–	7	1	–	–
<i>Ludwigia alata</i>	10	1	–	–	–	–	–	–
<i>Ludwigia microcarpa</i>	10	1	–	–	–	–	5	1
<i>Ludwigia palustris</i>	5	1	–	–	–	–	–	–
<i>Ludwigia repens</i>	14	2	–	–	–	–	5	1
<i>Lythrum lineare</i>	10	1	7	1	–	–	–	–
<i>Magnolia virginiana</i> var. <i>virginiana</i>	5	1	–	–	–	–	–	–
<i>Medicago lupulina</i>	–	–	–	–	–	–	5	1
<i>Melica mutica</i>	24	2	–	–	21	1	–	–
<i>Melothria pendula</i>	5	1	–	–	–	–	–	–
<i>Mikania scandens</i>	52	2	7	1	–	–	5	1

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Mitchella repens</i>	5	1	–	–	43	2	–	–
<i>Mitreola petiolata</i>	10	1	–	–	–	–	–	–
<i>Monarda punctata</i> var. <i>punctata</i>	–	–	–	–	–	–	5	1
<i>Morella cerifera</i>	95	7	14	1	93	6	45	5
<i>Morella pensylvanica</i>	–	–	–	–	–	–	14	2
<i>Muhlenbergia sericea</i>	10	2	–	–	–	–	27	1
<i>Muscadinia rotundifolia</i> var. <i>rotundifolia</i>	5	1	–	–	86	4	–	–
<i>Nekemias arborea</i>	43	3	–	–	57	2	–	–
<i>Nyssa biflora</i>	5	1	–	–	–	–	–	–
<i>Oenothera humifusa</i>	14	1	–	–	–	–	100	2
<i>Oenothera simulans</i>	5	1	–	–	–	–	–	–
<i>Oenothera unguiculata</i>	5	2	–	–	–	–	–	–
<i>Oplismenus setarius</i>	19	1	–	–	36	2	–	–
<i>Opuntia drummondii</i>	24	2	–	–	14	1	86	2
<i>Osmunda spectabilis</i>	29	3	–	–	21	2	–	–
<i>Osmundastrum cinnamomeum</i>	10	2	–	–	–	–	–	–
<i>Panicum amarum</i> var. <i>amarulum</i>	10	1	–	–	7	1	–	–
<i>Panicum amarum</i> var. <i>amarum</i>	5	1	–	–	–	–	77	2
<i>Panicum dichotomiflorum</i> var. <i>dichotomiflorum</i>	–	–	–	–	–	–	5	1
<i>Panicum virgatum</i> var. <i>spissum</i>	19	3	–	–	–	–	–	–
<i>Parthenocissus quinquefolia</i>	71	3	–	–	100	4	27	2
<i>Paspalum distichum</i>	10	1	–	–	7	1	5	1
<i>Paspalum notatum</i>	–	–	–	–	–	–	5	1
<i>Paspalum setaceum</i>	–	–	–	–	7	1	5	1
<i>Paspalum urvillei</i>	5	1	–	–	–	–	–	–
<i>Passiflora incarnata</i>	–	–	–	–	14	2	–	–
<i>Pattalias palustre</i>	43	2	43	2	–	–	23	2
<i>Persea palustris</i>	76	4	–	–	100	5	14	2
<i>Persicaria hydropiperoides</i>	10	1	–	–	–	–	–	–
<i>Persicaria pensylvanica</i>	5	1	–	–	–	–	–	–
<i>Persicaria punctata</i>	24	2	–	–	–	–	–	–
<i>Persicaria sagittata</i>	10	1	–	–	–	–	–	–
<i>Phragmites australis</i>	24	3	14	2	–	–	5	1
<i>Phyla lanceolata</i>	14	2	21	1	–	–	–	–
<i>Phyla nodiflora</i> var. <i>nodiflora</i>	19	1	–	–	–	–	9	1
<i>Physalis walteri</i>	33	1	–	–	21	1	68	2
<i>Pinus elliotii</i>	–	–	–	–	36	6	–	–
<i>Pinus serotina</i>	–	–	–	–	7	2	–	–
<i>Pinus taeda</i>	29	4	–	–	71	6	5	2
<i>Piptochaetium avenaceum</i>	–	–	–	–	7	1	–	–
<i>Pityopsis nervosa</i>	–	–	–	–	43	2	5	2
<i>Plantago lanceolata</i>	–	–	–	–	–	–	5	1
<i>Plantago virginica</i>	5	1	–	–	–	–	5	1
<i>Pluchea baccharis</i>	14	1	–	–	7	1	–	–

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Pluchea foetida</i> var. <i>foetida</i>	14	1	–	–	–	–	–	–
<i>Pluchea odorata</i>	–	–	7	1	–	–	–	–
<i>Polypremum procumbens</i>	10	1	–	–	7	1	–	–
<i>Proserpinaca palustris</i>	5	1	–	–	–	–	–	–
<i>Prunus caroliniana</i>	5	1	–	–	7	1	5	1
<i>Prunus serotina</i> var. <i>serotina</i>	–	–	–	–	–	–	9	2
<i>Ptilimnium capillaceum</i>	19	1	14	1	–	–	–	–
<i>Quercus hemisphaerica</i>	10	1	–	–	50	5	–	–
<i>Quercus virginiana</i>	10	1	–	–	64	6	14	3
<i>Rhus copallinum</i> var. <i>copallinum</i>	5	1	–	–	–	–	5	1
<i>Rhynchospora caduca</i>	5	1	–	–	–	–	–	–
<i>Rhynchospora colorata</i>	38	2	–	–	7	1	5	1
<i>Rhynchospora miliacea</i>	5	1	–	–	–	–	–	–
<i>Rosa multiflora</i>	–	–	–	–	7	1	–	–
<i>Rosa palustris</i>	24	2	–	–	–	–	–	–
<i>Rotala ramosior</i>	5	1	–	–	–	–	–	–
<i>Rubus pensilvanicus</i>	48	2	–	–	21	1	–	–
<i>Rubus trivialis</i>	52	2	–	–	29	1	36	2
<i>Rumex acetosella</i> ssp. <i>pyrenaicus</i>	10	1	–	–	–	–	32	2
<i>Rumex floridanus</i>	5	2	–	–	–	–	–	–
<i>Sabal minor</i>	14	2	–	–	43	2	–	–
<i>Sabatia stellaris</i>	10	1	36	2	–	–	9	1
<i>Sacciolepis striata</i>	14	2	–	–	–	–	–	–
<i>Sagittaria graminea</i>	5	1	–	–	–	–	–	–
<i>Salicornia ambigua</i>	–	–	7	1	–	–	–	–
<i>Salicornia virginica</i>	–	–	7	1	–	–	–	–
<i>Salix caroliniana</i>	5	3	–	–	–	–	–	–
<i>Sambucus canadensis</i>	5	1	–	–	–	–	–	–
<i>Samolus parviflorus</i>	14	1	14	1	–	–	–	–
<i>Sanicula canadensis</i> var. <i>floridana</i>	–	–	–	–	7	1	–	–
<i>Schizachyrium littorale</i>	19	1	–	–	–	–	5	1
<i>Schizachyrium scoparium</i> var. <i>scoparium</i>	–	–	–	–	7	1	–	–
<i>Schoenoplectus americanus</i>	–	–	7	5	–	–	–	–
<i>Schoenoplectus pungens</i> var. <i>pungens</i>	24	4	43	6	–	–	–	–
<i>Schoenoplectus tabernaemontani</i>	5	1	–	–	–	–	–	–
<i>Scleria flaccida</i>	14	1	–	–	43	2	–	–
<i>Setaria parviflora</i>	43	3	36	2	7	1	5	1
<i>Sicyos angulatus</i>	5	1	–	–	–	–	–	–
<i>Sisyrinchium atlanticum</i>	5	1	–	–	–	–	–	–
<i>Smilax auriculata</i>	38	2	–	–	36	2	55	4
<i>Smilax bona-nox</i> var. <i>littoralis</i>	81	4	–	–	100	4	36	2
<i>Smilax glauca</i>	5	1	–	–	7	1	–	–
<i>Smilax laurifolia</i>	10	2	–	–	7	1	–	–

Species	NW Constancy	NW Cover	TW Constancy	TW Cover	UFS Constancy	UFS Cover	UOG Constancy	UOG Cover
<i>Smilax rotundifolia</i>	14	2	–	–	21	3	–	–
<i>Smilax smallii</i>	–	–	–	–	7	1	–	–
<i>Smilax walteri</i>	14	2	–	–	–	–	–	–
<i>Solanum carolinense</i> var. <i>carolinense</i>	5	1	–	–	–	–	–	–
<i>Solidago fistulosa</i>	14	1	–	–	–	–	–	–
<i>Solidago mexicana</i>	38	2	36	2	–	–	36	2
<i>Solidago odora</i>	14	1	–	–	–	–	–	–
<i>Solidago sempervirens</i>	19	2	–	–	14	1	23	1
<i>Spartina alterniflora</i>	–	–	36	5	–	–	–	–
<i>Spartina patens</i>	86	6	100	7	36	2	86	4
<i>Sphenopholis obtusata</i>	5	1	–	–	–	–	–	–
<i>Spiranthes cernua</i>	–	–	–	–	–	–	5	1
<i>Sporobolus indicus</i>	5	1	–	–	–	–	–	–
<i>Stenotaphrum secundatum</i>	5	1	–	–	–	–	–	–
<i>Stipulicida setacea</i>	5	1	–	–	–	–	9	1
<i>Strophostyles helvola</i>	10	1	14	2	–	–	36	3
<i>Swida foemina</i>	14	4	–	–	21	1	–	–
<i>Symphytotrichum simmondsii</i>	14	1	–	–	–	–	–	–
<i>Symphytotrichum subulatum</i>	–	–	7	1	–	–	–	–
<i>Symphytotrichum tenuifolium</i>	5	1	14	1	–	–	–	–
<i>Taxodium distichum</i>	–	–	–	–	7	1	–	–
<i>Teucrium canadense</i> var. <i>canadense</i>	5	1	–	–	–	–	–	–
<i>Teucrium canadense</i> var. <i>hypoleucum</i>	5	1	–	–	–	–	–	–
<i>Thelypteris palustris</i> var. <i>pubescens</i>	24	3	–	–	7	1	–	–
<i>Toxicodendron radicans</i> var. <i>radicans</i>	81	5	–	–	100	5	27	2
<i>Trichostema nesophilum</i>	5	1	–	–	14	1	55	2
<i>Triplasis purpurea</i> var. <i>purpurea</i>	–	–	–	–	–	–	9	1
<i>Tripsacum dactyloides</i> var. <i>dactyloides</i>	5	1	–	–	–	–	–	–
<i>Typha angustifolia</i>	5	2	29	4	–	–	–	–
<i>Typha domingensis</i>	5	1	14	1	–	–	–	–
<i>Typha latifolia</i>	5	1	–	–	–	–	–	–
<i>Uniola paniculata</i>	10	2	–	–	–	–	100	7
<i>Utricularia gibba</i>	5	1	–	–	–	–	–	–
<i>Vaccinium arboreum</i>	5	2	–	–	7	2	5	1
<i>Vaccinium formosum</i>	–	–	–	–	7	2	–	–
<i>Vaccinium fuscatum</i>	14	1	–	–	50	3	–	–
<i>Vaccinium tenellum</i>	–	–	–	–	14	1	–	–
<i>Vitis aestivalis</i> var. <i>aestivalis</i>	–	–	–	–	36	2	5	1
<i>Vitis labrusca</i>	–	–	–	–	21	3	5	1
<i>Yucca filamentosa</i>	5	1	–	–	–	–	–	–
<i>Zanthoxylum clava-herculis</i>	–	–	–	–	–	–	5	1

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Woody Stem (Trees, Saplings, Seedlings) Information

Table 7. 2023 tree, sapling, and seedling abundance values from Southeast Coast Network vegetation plots within Cape Hatteras National Seashore. Trees were measured at the full plot (400 m²)-scale and include any woody species ≥ 10 cm DBH; saplings were measured at 8 10 m² nested quadrats within the plot and include all canopy forming woody species < 10 cm DBH; recent germinants were measured at 1 m² nested quadrats within the plot and include all canopy forming woody species 5 to 15 cm tall; and seedlings were measured at the same scale as germinants and include all canopy forming woody species > 15 cm to 137 cm tall. Cycle 1 plots were established in 2023. Cycle 2 plots were established in 2019.

Broad Habitat Type	Cycle	Plot	Live Tree Basal Area (m ² /ha)	Live Tree Density (400 m ²)	Dead Tree Density (400 m ²)	Sapling Basal Area (m ² /ha)	Sapling Density (80 m ²)	Recent Germinant Density (8 m ²)	Seedling Density (8 m ²)	Mean Canopy Cover (%)	Mean Canopy Height (m)
Nontidal Wetland	1	BOIS015	0.0	0.0	0.0	3.4	45.0	1.0	4.0	21.8	4.0
	1	HAIS009	0.7	3.0	0.0	3.9	22.0	49.0	9.0	32.3	4.0
	1	HAIS016	3.8	12.0	0.0	15.8	85.0	5.0	18.0	59.6	4.0
	1	HAIS017	0.5	1.0	0.0	4.8	31.0	1.0	6.0	13.8	4.7
	1	OCIS003	9.9	10.0	5.0	2.6	18.0	2.0	8.0	46.7	8.0
	1	OCIS009	3.9	9.0	0.0	3.3	23.0	11.0	6.0	45.1	4.3
	2	BOIS003	1.3	4.0	1.0	14.5	63.0	3.0	10.0	91.9	5.0
	2	BOIS005	0.0	0.0	0.0	1.8	48.0	0.0	1.0	15.8	2.0
	2	BOIS006	0.0	0.0	0.0	6.3	66.0	1.0	12.0	2.3	3.7
	2	BOIS007	0.8	2.0	0.0	7.5	135.0	10.0	15.0	55.6	4.3
	2	BOIS008	0.0	0.0	0.0	0.3	12.0	0.0	1.0	16.2	3.7
	2	BUXT002	1.8	3.0	0.0	12.9	36.0	31.0	22.0	83.1	6.3
	2	BUXT004	0.2	1.0	4.0	6.3	38.0	2.0	1.0	2.5	3.7
	2	BUXT008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	BUXT009	7.1	18.0	3.0	13.8	83.0	60.0	38.0	47.9	5.3
	2	BUXT065	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.1	3.3
	2	BUXT067	0.2	1.0	0.0	4.2	71.0	3.0	10.0	6.6	3.3
	2	HAIS001	13.2	21.0	0.0	9.2	58.0	0.0	19.0	78.3	6.3
	2	OCIS001	1.1	4.0	0.0	1.7	11.0	21.0	33.0	38.9	4.3

Broad Habitat Type	Cycle	Plot	Live Tree Basal Area (m²/ha)	Live Tree Density (400 m²)	Dead Tree Density (400 m²)	Sapling Basal Area (m²/ha)	Sapling Density (80 m²)	Recent Germinant Density (8 m²)	Seedling Density (8 m²)	Mean Canopy Cover (%)	Mean Canopy Height (m)
	2	OCIS008	8.0	19.0	0.0	1.6	33.0	44.0	74.0	67.1	5.0
	2	OCIS010	4.1	12.0	0.0	11.4	55.0	36.0	60.0	23.6	4.0
	–	average	2.7	5.7	0.6	6.0	44.9	13.3	16.5	35.7	4.3
	–	standard deviation	3.8	7.0	1.5	5.1	32.1	18.9	19.8	28.9	1.6
Tidal Wetland	1	BOIS067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	BOIS068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	BOIS069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	1	HAIS065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	HAIS066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	HAIS067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1	HAIS068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	BOIS066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	OCIS065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	2	OCIS066	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.3
	2	OCIS067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
	2	OCIS069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	2	OCIS071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
	2	OCIS072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
	–	average	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5
	–	standard deviation	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.6
Upland Forest and Shrubland	1	BOIS097	16.4	19.0	4.0	0.3	11.0	7.0	10.0	51.3	15.3
	1	BOIS098	25.9	18.0	1.0	2.2	11.0	0.0	6.0	76.1	16.7

Broad Habitat Type	Cycle	Plot	Live Tree Basal Area (m²/ha)	Live Tree Density (400 m²)	Dead Tree Density (400 m²)	Sapling Basal Area (m²/ha)	Sapling Density (80 m²)	Recent Germinant Density (8 m²)	Seedling Density (8 m²)	Mean Canopy Cover (%)	Mean Canopy Height (m)
	1	BOIS100	35.2	30.0	2.0	1.3	7.0	11.0	7.0	78.9	19.3
	1	OCIS113	14.6	11.0	1.0	3.1	15.0	7.0	17.0	76.3	20.7
	1	OCIS115	51.1	27.0	5.0	2.4	16.0	1.0	14.0	68.4	22.0
	1	OCIS116	30.2	18.0	1.0	0.9	4.0	2.0	0.0	81.1	21.3
	2	BUXT003	37.7	37.0	1.0	1.7	19.0	30.0	28.0	87.1	14.0
	2	BUXT005	28.0	28.0	0.0	0.9	5.0	42.0	24.0	88.9	13.7
	2	BUXT006	25.6	22.0	0.0	1.4	6.0	61.0	47.0	75.9	19.3
	2	BUXT007	26.8	40.0	0.0	1.1	3.0	44.0	0.0	88.6	10.3
	2	BUXT010	24.0	52.0	0.0	7.9	22.0	44.0	11.0	86.8	10.7
	2	BUXT011	42.5	23.0	3.0	0.1	7.0	25.0	35.0	84.8	18.7
	2	BUXT013	24.3	26.0	1.0	0.3	7.0	42.0	16.0	89.0	14.7
	2	BUXT014	21.5	31.0	1.0	1.7	10.0	45.0	15.0	80.4	11.7
	–	average	28.8	27.3	1.4	1.8	10.2	25.8	16.4	79.5	16.3
	–	standard deviation	9.9	10.5	1.6	1.9	5.8	20.7	13.3	10.2	4.0
Upland Open Grassland	2	BOIS001	0.0	0.0	0.0	0.0	6.0	0.0	0.0	18.6	1.3
	2	BOIS002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	BOIS004	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.3
	2	BOIS013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
	2	BUXT068	0.0	0.0	0.0	1.4	6.0	1.0	3.0	24.0	2.3
	2	BUXT069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	2	BUXT071	0.0	0.0	0.0	0.0	0.0	15.0	25.0	0.0	1.3
	2	BUXT072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0

Broad Habitat Type	Cycle	Plot	Live Tree Basal Area (m ² /ha)	Live Tree Density (400 m ²)	Dead Tree Density (400 m ²)	Sapling Basal Area (m ² /ha)	Sapling Density (80 m ²)	Recent Germinant Density (8 m ²)	Seedling Density (8 m ²)	Mean Canopy Cover (%)	Mean Canopy Height (m)
	2	BUXT074	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	BUXT075	0.0	0.0	0.0	0.9	43.0	0.0	15.0	25.1	4.0
	2	HAIS002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	HAIS003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	HAIS004	0.5	1.0	0.0	1.0	16.0	1.0	5.0	11.7	3.7
	2	HAIS005	0.0	0.0	0.0	2.7	12.0	1.0	7.0	24.0	3.0
	2	HAIS006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	HAIS007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	2	HAIS008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
	2	OCIS002	0.0	0.0	0.0	0.9	5.0	0.0	6.0	0.0	2.3
	2	OCIS004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	OCIS005	0.0	0.0	0.0	3.3	16.0	1.0	0.0	1.8	2.0
	2	OCIS006	0.0	0.0	0.0	1.4	13.0	0.0	0.0	0.0	2.0
	2	OCIS007	0.0	0.0	0.0	3.0	9.0	0.0	18.0	6.9	2.0
	—	average	0.0	0.0	0.0	0.7	5.7	0.9	3.6	5.1	1.5
	—	standard deviation	0.1	0.2	0.0	1.1	10.1	3.2	6.9	9.1	1.3

Table 8. 2023 basal area (BA, m²/ha) and density (Den, count/ha) of woody vascular plant species (trees, shrubs, and woody vines) observed in 71 Southeast Coast Network vegetation monitoring plots. Broad Habitat Type codes are as follows: NW = Nontidal Wetlands (21 plots), TW = Tidal Wetlands (14 plots), UFS = Upland Forests and Shrublands (14 plots), and UOG = Upland Open Grasslands (22 plots). Seedling counts include individuals >15 cm height. [Sap—Saplings; Seed—Seedlings].

Species	NW					TW					UFS					UOG				
	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den
<i>Acer rubrum</i>	0.00	0.00	0.03	35.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Amelanchier canadensis</i>	0.00	0.00	0.07	285.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	35.71	0.00	0.00	0.00	0.00	0.00	0.00
<i>Baccharis angustifolia</i>	0.00	0.00	0.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Baccharis halimifolia</i>	0.00	0.00	0.20	345.24	1726.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Benthamidia florida</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Berchemia scandens</i>	0.00	0.00	0.00	23.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.86	357.14	0.00	0.00	0.00	0.00	0.00
<i>Carpinus caroliniana</i> var. <i>caroliniana</i>	0.02	1.19	0.03	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.45	19.64	0.11	53.57	535.71	0.00	0.00	0.00	0.00	0.00
<i>Diospyros virginiana</i>	0.07	2.38	0.00	11.90	297.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	535.71	0.00	0.00	0.00	0.00	0.00
<i>Elaeagnus pungens</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	446.43	0.00	0.00	0.00	0.00	0.00
<i>Gelsemium sempervirens</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	312.50	2410.71	0.00	0.00	0.00	0.00	0.00
<i>Ilex glabra</i>	0.00	0.00	0.03	333.33	1666.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.36	714.29	0.00	0.00	0.00	0.00	0.00
<i>Ilex opaca</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	7.14	0.00	0.00	714.29	0.00	0.00	0.00	0.00	0.00
<i>Ilex vomitoria</i>	0.00	0.00	0.39	648.81	6904.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	991.07	11607.14	0.00	0.00	0.01	5.94	568.18
<i>Iva frutescens</i> var. <i>frutescens</i>	0.00	0.00	0.02	95.24	119.05	0.00	0.00	0.00	0.00	2053.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Iva imbricata</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1420.45
<i>Juniperus silicicola</i>	2.12	107.14	1.20	642.86	535.71	0.00	0.00	0.00	0.00	0.00	3.22	132.14	0.69	276.79	625.00	0.02	1.14	0.48	291.06	1079.55
<i>Lonicera japonica</i>	0.00	0.00	0.03	119.05	1607.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Morella cerifera</i>	0.08	5.95	2.61	2761.90	5595.24	0.00	0.00	0.00	0.00	0.00	0.06	3.57	0.53	1160.71	4017.86	0.00	0.00	0.15	231.66	1363.64

Species	NW					TW					UFS					UOG				
	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den
<i>Morella pensylvanica</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00
<i>Muscadinia rotundifolia</i> var. <i>rotundifolia</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	98.21	3750.00	0.00	0.00	0.00	0.00	0.00
<i>Nekemias arborea</i>	0.00	0.00	0.01	261.90	2023.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.79	714.29	0.00	0.00	0.00	0.00	0.00
<i>Parthenocissus</i> <i>quinquefolia</i>	0.00	0.00	0.01	166.67	1369.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	232.14	4017.86	0.00	0.00	0.00	11.88	170.45
<i>Persea palustris</i>	0.06	3.57	0.36	273.81	3154.76	0.00	0.00	0.00	0.00	0.00	0.43	23.21	0.27	375.00	7857.14	0.00	0.00	0.01	11.88	56.82
<i>Pinus elliotii</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.91	133.93	0.16	151.79	1160.71	0.00	0.00	0.00	0.00	0.00
<i>Pinus serotina</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Pinus taeda</i>	0.01	1.19	0.13	160.71	119.05	0.00	0.00	0.00	0.00	0.00	9.30	173.21	0.27	321.43	2053.57	0.00	0.00	0.00	0.00	0.00
<i>Quercus hemisphaerica</i>	0.00	0.00	0.00	0.00	119.05	0.00	0.00	0.00	0.00	0.00	1.80	39.29	0.00	0.00	3660.71	0.00	0.00	0.00	0.00	0.00
<i>Quercus virginiana</i>	0.00	0.00	0.03	5.95	0.00	0.00	0.00	0.00	0.00	0.00	4.35	144.64	0.30	89.29	3392.86	0.00	0.00	0.03	172.26	1477.27
<i>Sabal minor</i>	0.00	0.00	0.00	0.00	178.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.29	0.00	0.00	0.00	0.00	0.00
<i>Salix caroliniana</i>	0.28	16.67	0.00	23.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Smilax auriculata</i>	0.00	0.00	0.00	59.52	238.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	107.14	892.86	0.00	0.00	0.02	516.79	1931.82
<i>Smilax bona-nox</i> var. <i>littoralis</i>	0.00	0.00	0.01	410.71	3035.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.14	8214.29	0.00	0.00	0.00	24.79	738.64
<i>Smilax glauca</i>	0.00	0.00	0.00	0.00	59.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	0.00	0.00	0.00	0.00	0.00	0.00
<i>Smilax laurifolia</i>	0.00	0.00	0.01	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Smilax rotundifolia</i>	0.00	0.00	0.00	113.10	119.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.50	2053.57	0.00	0.00	0.00	0.00	0.00
<i>Smilax smallii</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Smilax walteri</i>	0.00	0.00	0.00	53.57	238.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Swida foemina</i>	0.05	4.76	0.88	321.43	2023.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Species	NW					TW					UFS					UOG				
	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den	Live Tree BA	Live Tree Den	Sap BA	Sap Den	Seed Den
<i>Toxicodendron radicans</i> var. <i>radicans</i>	0.00	0.00	0.04	511.90	13690.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151.79	11250.00	0.00	0.00	0.00	41.58	2272.73
<i>Vaccinium arboreum</i>	0.00	0.00	0.03	71.43	59.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	0.00	0.00	0.00	0.00	0.00	0.00
<i>Vaccinium formosum</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.29	0.00	0.00	0.00	0.00	0.00
<i>Vaccinium fuscatum</i>	0.00	0.00	0.01	11.90	119.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	187.50	714.29	0.00	0.00	0.00	0.00	0.00
<i>Vaccinium tenellum</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Vitis aestivalis</i> var. <i>aestivalis</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	26.79	0.00	0.00	0.00	0.00	0.00	0.00
<i>Vitis labrusca</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.79	803.57	0.00	0.00	0.00	0.00	0.00