

# INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

---



**Common Terns, Buzzards Bay, Massachusetts**

© MassWildlife. 2018

Prepared by:  
Carolyn Mostello, Jim Burnham, Amanda Veinotte, and Jennifer Longsdorf  
Massachusetts Division of Fisheries & Wildlife  
*September 2021*



**MASSWILDLIFE**

**SUPPORT ENDANGERED  
SPECIES CONSERVATION**

Contribute on your state income tax form or send a check  
made payable to Commonwealth of MA: NHESP to  
1 Rabbit Hill Road, Westborough, MA 01581.



For more information, please call  
(508) 389-6360 or visit [mass.gov/nhesp](http://mass.gov/nhesp)

**THANK YOU FOR YOUR SUPPORT!**

## ABSTRACT

Cooperators in Massachusetts surveyed 244 coastal sites in 2018 for the presence of breeding Roseate Terns (*Sterna dougallii*), Common Terns (*Sterna hirundo*), Arctic Terns (*Sterna paradisaea*), Least Terns (*Sternula antillarum*), Black Skimmers (*Rhynchops niger*), and Laughing Gulls (*Larus atricilla*). Approximately 104 sites were occupied by nesting birds. Compared to 2017 numbers, Arctic Terns were stable at one individual and all other species increased: Roseate Terns (2,310 pairs; +2%); Least Terns (3,492 pairs; +19%); Common Terns (19,729; +9%); Laughing Gulls (3,272; +19% pairs); and Black Skimmers (11 pairs; +38%). Earliest and median first egg dates across sites were 13 May/18 May for Roseate Terns, 7 May/23 May for Common Terns, 27 May/(n/a) for Arctic Terns, 21 May/30 May for Least Terns, 28 May/(n/a) for Black Skimmer, and 22 May/(n/a) for Laughing Gull.

## INTRODUCTION

Coastal waterbirds are a vulnerable group of species. Of Massachusetts' four nesting tern species, the Common Tern, Least Tern, and Arctic Tern are listed as "Special Concern" pursuant to the Massachusetts Endangered Species Act. The Roseate Tern is listed as "Endangered" pursuant to both the Massachusetts and U.S. Endangered Species Acts.

Terns, Laughing Gulls, and Black Skimmers in Massachusetts are protected and monitored by an extensive network of cooperators throughout the state. These cooperators provide census data and other reproductive information to the Massachusetts Division of Fisheries & Wildlife (MassWildlife). This allows wildlife managers to determine abundance and status of, and threats to, these species.

This report summarizes data on distribution, abundance, and productivity of terns, Laughing Gulls, and Black Skimmers in Massachusetts during the 2018 nesting season.

## METHODS

**Sites Surveyed:** Cooperators are asked to survey all sites at which terns, Laughing Gulls, and Black Skimmers have been known to nest. Some cooperators also survey additional sites with no history of nesting by these species. Any new nesting sites are reported.

**Timing of Census:** Depending upon the species, either one or two censuses are conducted. The "A-period count" (or "peak season" count) is conducted between 5 and 20 June. Laughing Gulls, Black Skimmers, and all tern species are censused during the A-period. For Roseate and Common Terns, the count is ideally conducted as closely as possible to the first hatch. Laughing Gull and Black Skimmer counts are timed to be coincident with Common Tern counts, and Arctic Tern counts with counts of any sympatric nesting seabird species. Least Tern colonies ideally are visited multiple times during the A-period window, and maximum estimates are reported. The "B-period count" (or "post-peak" count) is conducted after 20 June. For Roseate Terns, the B-count is timed 25 days after the A-count. For Arctic Terns and Black Skimmers, which nest in very low numbers in the state, any additional pairs that appear after 20 June are reported. A B-count for Least Terns is not necessary unless there is a significant change in numbers from the A-count, or a site that was not used during the A-period window was used after 20 June. Because Least Terns frequently shift among sites in response to disturbance, B-counts do not contribute to the overall census numbers (to avoid double-counting the same birds); however, the B-count does document use of the site. B-counts are not required for Common Terns or Laughing Gulls.

**Survey Method:** Observers are asked to classify their survey method as one of the following: Nest Count, Partial/Extrapolated Nest Count, Incubation Count, or Adult Count. All counts are expressed as “number of pairs”. Nests must contain at least one egg to be counted, unless it is obvious that chicks have already hatched. Empty scrapes and abandoned nests are not counted, unless they are known to have been active during the census window. Adults are only counted if it appears that they are nesting at a site; birds that are not suspected to be nesting at a site (e.g., resting or feeding birds) are not counted as nesting pairs. The number of breeding adults present (i.e., in the nesting area, not loafing on the shoreline) is multiplied by MassWildlife’s long-standing correction factor of 0.8 to arrive at the number of pairs.

**Survey Quality and Productivity Estimate:** Observers are asked to rate the quality of their survey as Low Confidence, Reasonable Confidence, or High Confidence. Observers also provide a qualitative assessment of productivity: none, poor, fair, good, or excellent. In a few cases, typically for Roseate and Common Terns at large colonies where detailed monitoring occurs, quantitative estimates of productivity (e.g., fledglings/nest) are provided. In Appendix A, productivity assessments expressed as ranges indicate uncertainty; multiple estimates separated by commas represent values for different subcolonies within a site.

**Data Reporting and Quality Control:** A majority of observers enter data into the Tern Online Data Entry System (TERNODES); others complete a standard “Massachusetts Tern Census Form”. Data requested include: monitoring effort; management and research actions/needs; dates of pre-A-, A-, and B-counts; number of pairs observed during counts; survey method; quality of survey; qualitative and quantitative productivity estimates; number of fledglings; method of determining productivity; dates of first adults observed, first eggs laid, first eggs hatched, first young fledged, and last young observed; comments; and other site uses. Maps delineating the nesting areas are submitted. All data are reviewed by MassWildlife. If necessary, observers are contacted to obtain missing data and clarify ambiguities. When the needed information could not be obtained, best professional judgment was used to assign final values or data were noted as preliminary in Appendix A.

**Notes on Chronology:** “Date first adults observed” is not synonymous with date adults arrive on site, because adults may not be observed when they first arrived: frequency of site visits prior to egg-laying is relatively low and attendance of birds at colony sites early in the nesting season is sporadic. Similarly, “Last date young observed” is not synonymous with last fledgling departure date: the date the last fledgling departs may be missed (e.g., due to low frequency of monitoring late in the season); fledglings at the site may not have hatched there (e.g., some may just be staging); and, in some colonies, no young survive to fledge (i.e., the date could refer to the last date that live, unfledged chicks were seen). Clarification of terminology in TERNODES in the future will help to reduce ambiguities.

When dates were reported as a range, the median of the date range was used in calculations if the range spanned five days or fewer. Ranges spanning greater than five days were excluded from analyses. Median dates refer to the among-site values (i.e., the median of the “first” or “last” dates reported by different sites), not the within-site median dates for individual birds or nests.

## RESULTS AND DISCUSSION

In 2018, 244 sites were surveyed for nesting terns, Laughing Gulls, and Black Skimmers. Approximately 104 sites were occupied by nesting birds of one or more of these species (Appendix A).

**Nesting Chronology**

Timing of nesting season events is shown in **Table 1** and **Fig. 1**.

**Table 1.** Nesting chronology for terns, Black Skimmers, and Laughing Gulls in Massachusetts in 2018.

2018		Roseate Tern	Common Tern	Arctic Tern <sup>c</sup>	Least Tern	Black Skimmer	Laughing Gull
Date first adults observed	Earliest date (site)	27-Apr (Bird I., Marion)	23-Apr (Bird I., Marion)	23-May (Penikese I., Gosnold)	28-Apr (Winthrop Bch., Winthrop)	9-May (Little Bch./Eel Pd., Edgartown)	20-Apr (S. Monomoy I., Chatham)
	Median <sup>a</sup> (n) <sup>b</sup>	10-May (5)	25-May (31)	n/a <sup>d</sup>	17-May (96)	15-May (3)	n/a
Date first eggs laid	Earliest date (site)	13-May (Bird I., Marion & Ram I., Mattapoisett)	7-May (Ram I., Mattapoisett)	27-May (Penikese I., Gosnold)	21-May (Little Bch./Eel Pd., Edgartown)	28-May (Norton Pt., Edgartown)	22-May (S. Monomoy I., Chatham)
	Median (n)	18-May (4)	23-May (11)	n/a	30-May (71)	nd <sup>e</sup>	n/a
Date first chicks hatched	Earliest date (site)	1-Jun (Ram I., Mattapoisett)	31-May (Ram I., Mattapoisett)	19-Jun (Penikese I., Gosnold)	16-Jun or 17-Jun (Oyster Pd., Edgartown; South Bch.-Middle I., Chatham; S. Monomoy I., Chatham; South Bch. (Nauset), Orleans)	27-Jun (Norton Pt. Bch., Edgartown)	19-Jun (S. Monomoy I., Chatham)
	Median (n)	10-Jun (4)	7-Jun (4)	n/a	25-Jun (54)	28-Jun (2)	n/a
Last date young observed	Latest date (site)	26-Sep (Bird I., Marion)	26-Sep (Bird I., Marion)	nd	5-Sep (Eel Pt., Nantucket)	18-Sep (Norton Pt. Bch., Edgartown)	nd
	Median (n)	nd	8-Aug (4)	n/a	15-Aug (50)	1-Sep (2)	n/a

<sup>a</sup> Median dates refer to the among-site values (i.e., the median of the “first” or “last” dates reported by different sites), not the within-site median dates for individual birds or nests. For sites reporting a date range of ≤5 days (instead of a single value), the median value for the range was used in analyses; ranges >5 days were not used in analyses.

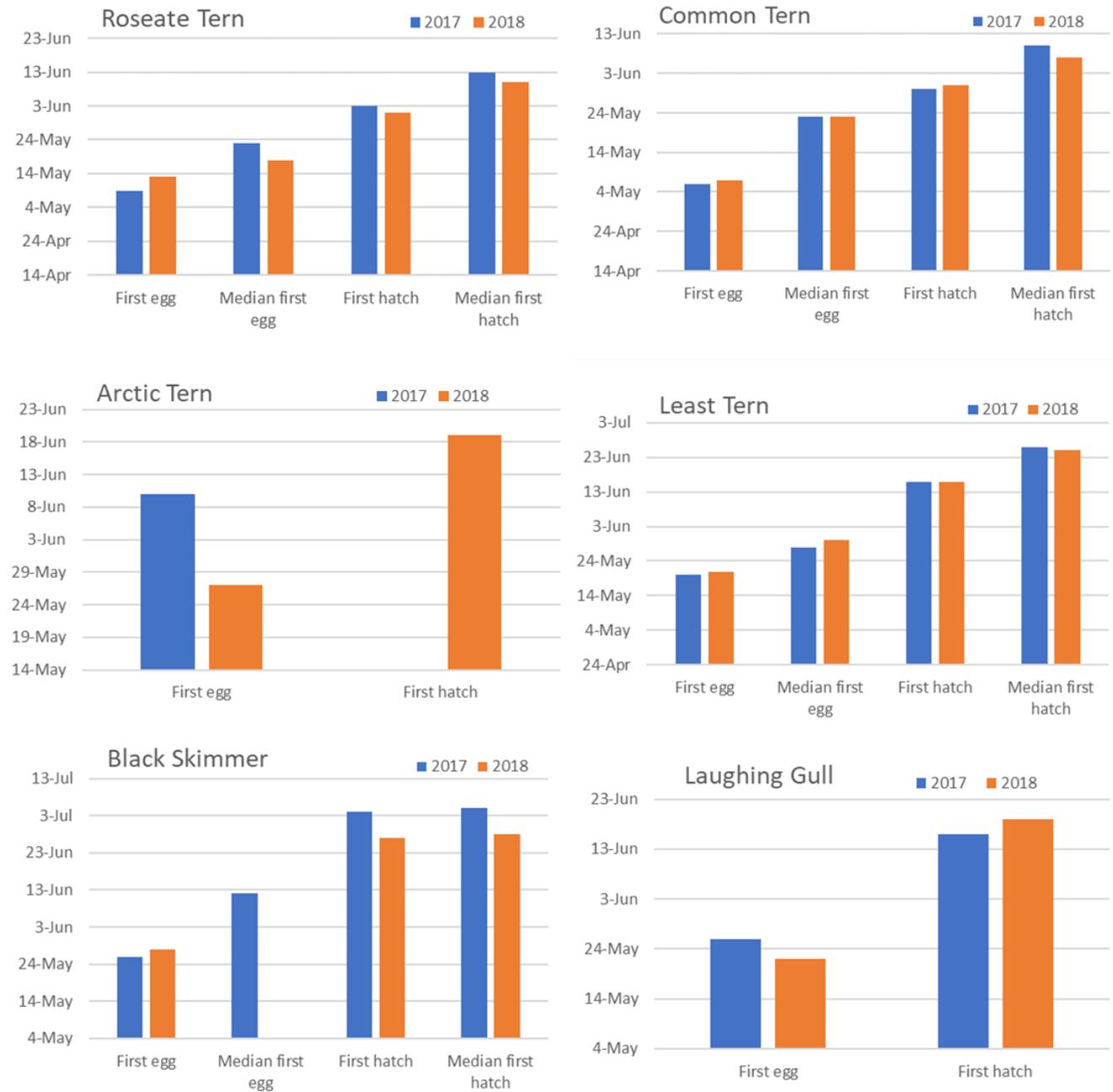
<sup>b</sup> n – number of sites

<sup>c</sup> Arctic Tern values are for a mixed Arctic Tern/Common Tern pair.

<sup>d</sup> n/a – not applicable (used if species nested at a single site)

<sup>e</sup> nd – no data

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018



**Figure 1.** Key tern, Black Skimmer, and Laughing Gull nesting dates, 2017 – 2018. “First egg” and “first hatch” indicate the earliest egg laying and hatching dates reported statewide. Median dates refer to the among-site values (i.e., the median of the “first” dates reported by different sites), not the within-site median dates for individual birds or nests. For sites reporting a date range of  $\leq 5$  days (instead of a single value), the median value for the range was used in analyses; ranges  $> 7$  days were not used in analyses. **Note:** 2017 Least Tern first egg date has been corrected to 20-May (at Winthrop Beach, Winthrop).

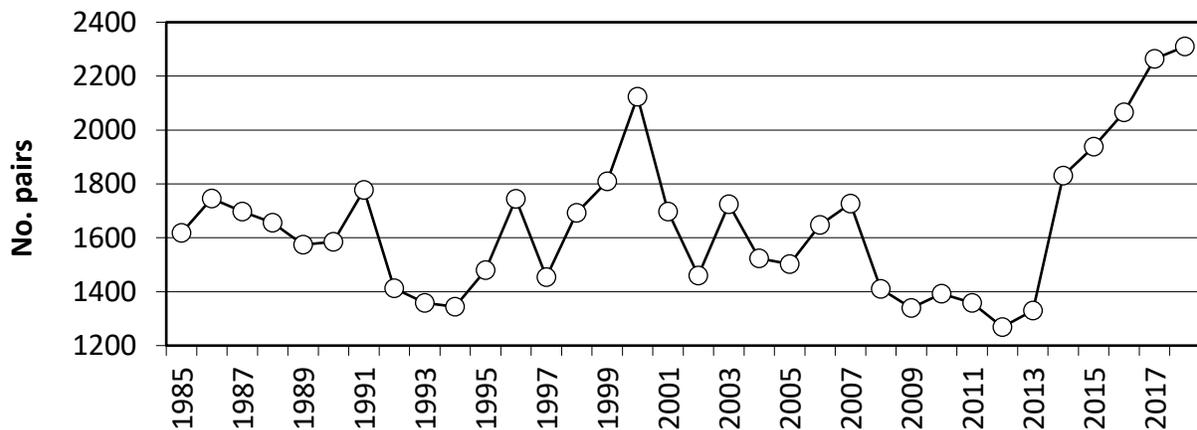
### Abundance and Distribution

**Roseate Tern:** Roseate Terns increased 2.0% to **2,310 pairs** (vs. 2,264 pairs in 2017), topping the recent history record high set in 2017. Similarly, the Northeast U.S. population (Maine through New York) increased 2.2% to 4,542 pairs (vs. 4,446 pairs) (Roseate Tern Recovery Team, unpubl. data).

Roseates nested at a minimum of four sites in 2018. The largest colony was at Bird I., Marion (1,175 pairs vs. 595), where productivity was 1.04 fledglings/nest. At Ram I., Mattapoisett, 1,093 pairs nested (vs. 1,555); productivity was 0.98 fledglings/nest. South Monomoy I., Chatham supported 30 pairs (vs. 11. Penikese I., Gosnold supported 12 pairs (vs. 90); productivity was 1.10 fledglings/nest. At Cape Pogue Elbow/The Narrows, a predation event early in the season disrupted 24 pairs (vs. 12) of courting and scraping birds prior to egg-laying; the birds deserted the site. At Muskeget I., Nantucket, up to 300 individuals were present in early to mid-June and courtship and copulations were noted; however, no eggs were detected.

The two largest A-period colonies supported 98.2% of the state’s Roseate Tern pairs.

Since 1985, Roseate numbers in the state have fluctuated between 1,269 and 2,310 pairs, averaging 1,643 pairs during this time period (**Fig. 1**).



**Figure 1.** Number of nesting Roseate Tern pairs in Massachusetts, 1985 – 2018.

**Common Tern:** Massachusetts’ Common Tern population increased 9.2% to the highest number recorded in recent history, **19,729 pairs** (vs. **18,059** pairs in 2017) distributed across 30 sites.

The South Monomoy I. Common Tern colony grew to 13,272 pairs (vs. 11,723) and had very good productivity (1.11 fledglings/nest). Numbers decreased at Ram I. (3,053 vs. 3,545), the second largest colony; productivity was fair (0.81 fledglings/nest). Bird I. increased to 2,079 pairs (vs. 1,652); productivity was fair (0.61 fledglings/nest). Numbers increased at Penikese I. (1,004 vs. 784); productivity was very good (1.11fledglings/nest). No other sites numbered more than 100 pairs of Common Terns.

The 10 largest A-period colonies supported 99.6% of the state’s Common Tern pairs; 93.3% of the state’s pairs were concentrated in the three largest colonies.

Common Tern numbers rose rapidly in Massachusetts during 1982 – 2003, slowed or leveled off during 2004 – 2016, and now appear to be increasing more rapidly. Since 1985, population size has ranged from 6,483 to 19,729 pairs (mean 13,400 pairs) (Fig. 2).

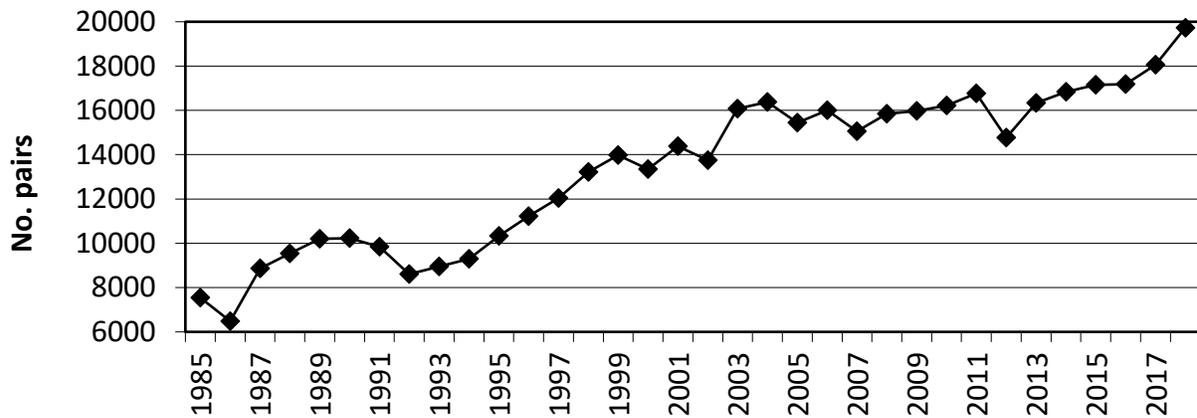


Figure 2. Number of nesting Common Tern pairs in Massachusetts, 1985 – 2018.

**Arctic Tern:** Again in 2018, one Arctic Tern nested with a Common Tern, this year back on Penikese I., and produced two chicks, whose survival to fledge could not be determined.

Since 1985, numbers of this range-edge species have ranged from 0 to 29 pairs (mean 7 pairs), with an overall downward trend (Fig. 3).

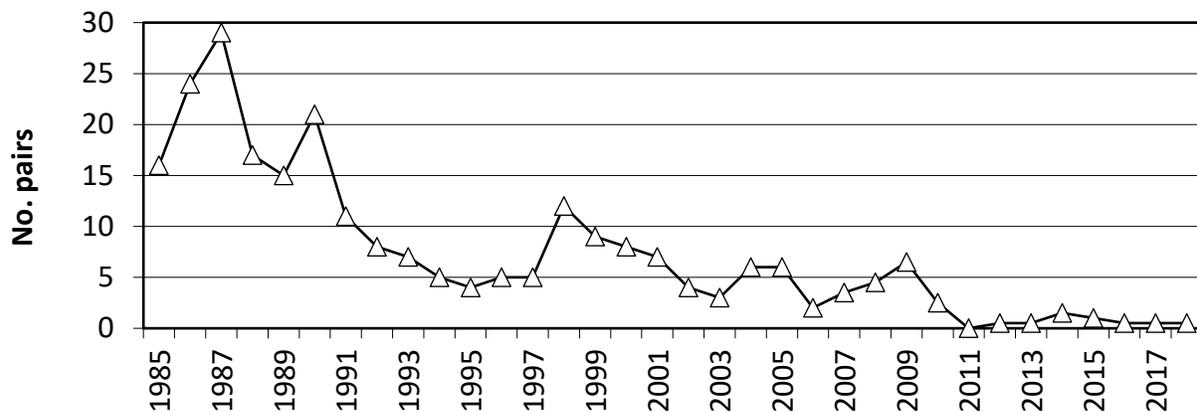


Figure 3. Number of nesting Arctic Tern pairs in Massachusetts, 1985 – 2018.

**Least Tern:** Least Terns increased 18.8% to **3,492 pairs** (vs. 2,940 in 2017) across approximately 79 sites.

South Monomoy I. had the largest Least Tern colony at 499 pairs (vs. 770); however, productivity was poor. Other sites with at least 100 pairs were Eel Pt., Nantucket (484 pairs vs. 3; zero to fair), Tuckernuck I. – Whale Pt., Nantucket (400 B-period pairs vs. 0; excellent), Norton Pt., Edgartown (297 vs. 3; good), Plymouth Long Beach, Plymouth (178 vs. 98; poor), South Beach - Middle I., Chatham (176 vs. 0; fair), Little Beach/Eel Pd., Edgartown (155 A-period/192 B-period vs. 0; good), Crane Beach, Ipswich (151 vs. 172; good), Duxbury Beach, Duxbury (141 B-period vs. 77; zero to good, depending on subcolony), and The Galls, Nantucket (119 vs. 0; fair).

The 10 largest A-period Least Tern sites supported 62.5% of the pairs. The three largest A-period sites supported 36.7% of the pairs. Since 1985, numbers of Least Terns have ranged from 2,109 to 4,309 pairs with a mean of 2,975 pairs (Fig. 4). The overall trend is positive, but there has been considerable volatility in the numbers. It is unknown how much of this is due to the difficulties inherent in estimating Least Tern population sizes versus true changes in abundance.

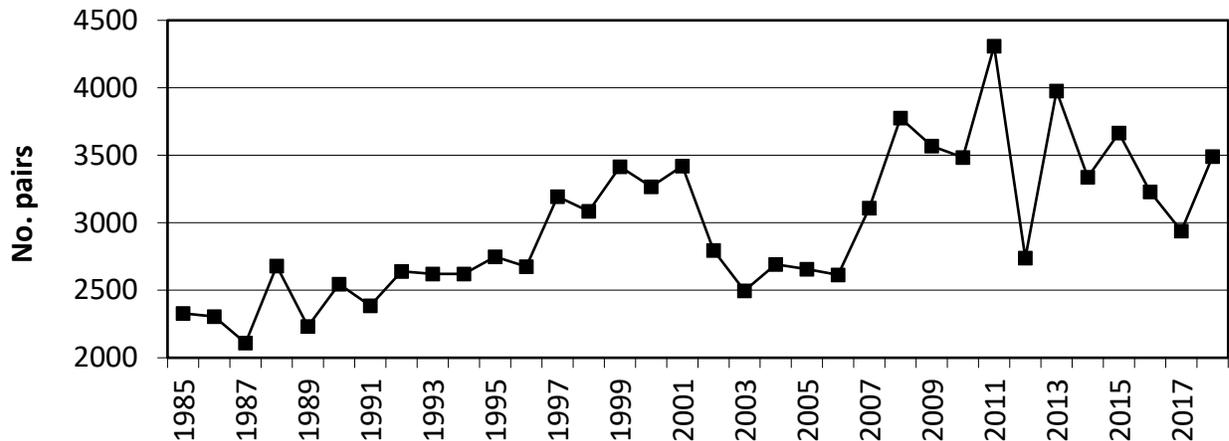


Figure 4. Number of nesting Least Tern pairs in Massachusetts, 1985 – 2018.

**Black Skimmer:** Black Skimmers increased 37.5% to **11 pairs** in the A-period (vs. 8 in 2017). Four additional pairs nested in the B-period. Birds laid eggs at two sites and were territorial at a third. At Cape Pogue Elbow/The Narrows, a predation event early in the season disrupted 8 pairs (vs. 7) of courting and scraping birds prior to egg-laying; the birds deserted the site. During the A-period, eight pairs nested at Norton Pt., Edgartown (vs. 1; 1.0 fledglings/pair) and three at Little Beach/Eel Pd., Edgartown (1.1 fledglings/pair). Each of these sites gained two additional pairs in the B-period.

Black Skimmers, which are at the northern end of their breeding range in Massachusetts, have ranged from zero to 11 pairs (mean 4 pairs) since 1985, and appear to be rapidly increasing since 2014 (Fig. 5).

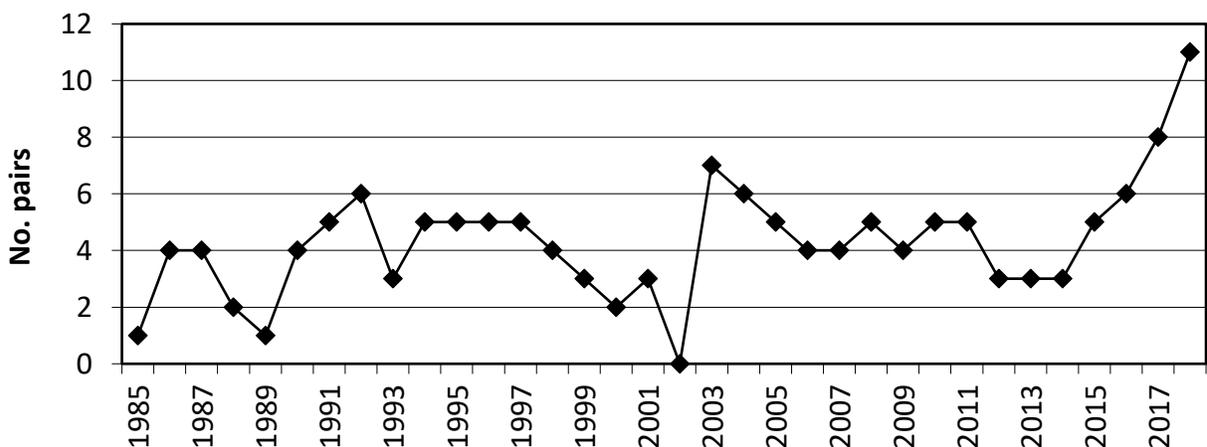
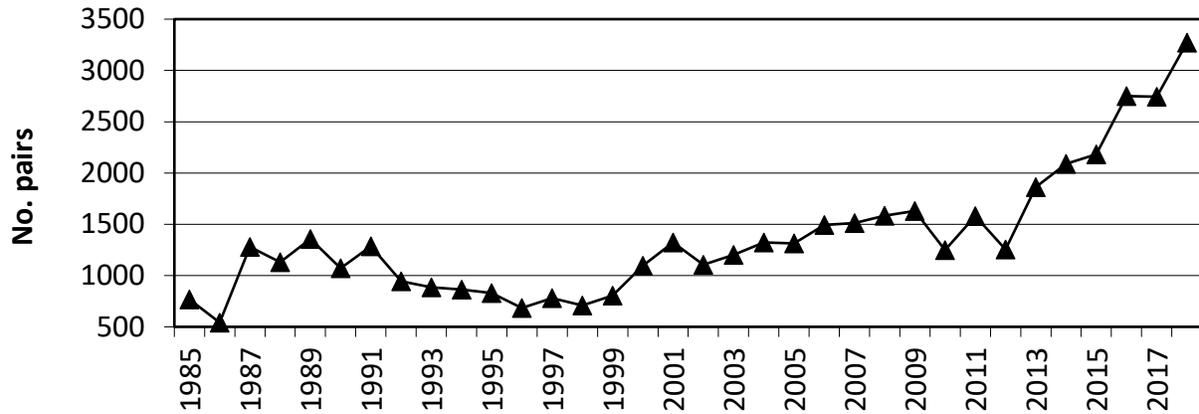


Figure 5. Number of nesting Black Skimmer pairs in Massachusetts, 1985 – 2018.

**Laughing Gull:** Laughing Gulls increased 19.2% to a record **3,272 pairs** (vs. 2,745 in 2017). They nested only at South Monomoy I. (3,272 vs. 2,714) and productivity was good.

From 1985 to present, Laughing Gulls have averaged 1,367 pairs, ranging between 542 and 3,272 pairs (**Fig. 6**). The overall trend since 1998 has been strongly upward. Because Laughing Gulls compete with Common and Roseate Terns for space and resources and are predators of terns, documenting their distribution, numbers, and interactions with our terns is important.



**Figure 6.** Number of nesting Laughing Gull pairs in Massachusetts, 1985 – 2018.

#### ACKNOWLEDGEMENTS

We thank dozens of cooperators who worked at these sites and collected and submitted data for this report.



## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Logan Airport, Boston	0			0			0			0			0			0				Smith
Lords Island, Ipswich	0			5	A		0			0			0			0				ECGA
Lovell's Beach, Boston	0 (0)			0 (0)			0 (0)			72	A	G	0 (0)			0 (0)				MAS
Mystic River Bridge, Somerville-Everett	0			60	A		0			0			0			0				Zendeh
Newbury Town Beach, Newbury	0 (0)			0 (0)			0 (0)			53	A	E	0 (0)			0 (0)				MAS
Parker River NWR, Newbury/Rowley	0 (0)			0 (0)			0 (0)			18	N	P	0 (0)			0 (0)				USFWS
Plum Island River Group, Newbury	0			6	A		0			0			0			0				USFWS
Rainsford Island, Boston	0 (0)			0 (0)			0 (0)			[30] 8 (1)	[A] A (A)	0	0 (0)			0 (0)				MAS
Roger Island, Ipswich	0			0			0			0			0			0				ECGA
Salisbury Beach State Reservation (North and South), Salisbury	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Sandy Point, Newburyport	0 (0)			0 (0)			0 (0)			12	A	G	0 (0)			0 (0)				MAS
Snake Island, Winthrop	0 (0)			1 (1)	N (N)	E	0 (0)			0 (0)			0 (0)			0 (0)				MAS
Spectacle Island, Boston	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Tinker's Island, Marblehead	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Winthrop Beach, Winthrop	0 (0)			0 (0)			0 (0)			34 (1)	N (N)	P	0 (0)			0 (0)				DCR
Woodbridge Island, Newburyport	0			22	A		0			0			0			0				USFWS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Yirrell Beach, Winthrop	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Winthrop
<b>SOUTH SHORE</b>																				
Duxbury Beach, Duxbury	0 (0)			0 (0)			0 (0)			27 (141)	A (A)	0,F,G	0 (0)			0 (0)				MAS
Ellisville Harbor State Park, Plymouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Ellisville Shifting Lots Preserve, Plymouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Fourth Cliff, Scituate	0 (0)			0 (0)			0 (0)			15 (42)	A (A)	P	0 (0)			0 (0)				MAS
Plymouth Long Beach, Plymouth	0 (0)			0 (0)			0 (0)			178 (34)	N (N)	P	0 (0)			0 (0)				Plymouth
Rexhame Beach, Marshfield	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Sagamore Beach (Bourne), Bourne	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Sagamore Beach, Plymouth, Plymouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Saquish, Plymouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Spinnaker Island, Hull	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NPS
The Glades, Scituate	0			0			0			0			0			0				MAS
Third Cliff, Scituate	0 (0)			0 (0)			0 (0)			6 (16)	N (A)	P	0 (0)			0 (0)				MAS
<b>UPPER CAPE</b>																				
Allens Harbor, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bank Street, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Bass River Beach, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bassetts Island, Bourne	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bayview/Howes (Private), Dennis	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Belmont Condos, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Black Beach, Falmouth	0 (0)			0 (0)			0 (0)			0 (6)	A (A)	F	0 (0)			0 (0)				MAS
Bone Hill Road, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Chapin Beach, Dennis	0 (0)			0 (0)			0 (0)			2	N	0	0 (0)			0 (0)				Dennis
Craigville, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Dead Neck Sampsons Island, Barnstable	0 (0)			0 (0)			0 (0)			[7.5] 16 (0)	[A] A (A)	0	0 (0)			0 (0)				MAS
Dowses Beach, Barnstable	0 (0)			0 (0)			0 (0)			1	N		0 (0)			0 (0)				Barnstable
Dr. Botero, Dennis	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
East Sandwich Beach, East Sandwich	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Sandwich
Fortes Beach, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Grays Beach, Yarmouth	0 (0)			[8] 7 (1)	[N] N (N)	0	0 (0)			[34] 75 (5)	[AN] A (N)	0	0 (0)			0 (0)				MAS
Great Island - Smith Point, Yarmouth	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[20] 21 (72)	[A] A (A)	0	[0] 0 (0)			[0] 0 (0)				MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Great Island Causeway, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Kalmus Beach, Barnstable	0 (0)			0 (0)			0 (0)			2	A	0	0 (0)			0 (0)				Barnstable
Little Island Beach, Falmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Long Beach, Barnstable	0 (0)			0 (0)			0 (0)			[3] 8 (28)	[A] A (A)	F	0 (0)			0 (0)				MAS
Maushop Village - Rock Landing, Mashpee	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Memorial Beach/Covell's, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Menauhant Beach, Falmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Miramar Beach (Swan River), Dennis	0 (0)			0 (0)			0 (0)			[19] 21 (4)	[A] A (A)	F	0 (0)			0 (0)				MAS
Mussel Point, Barnstable	[0] nd			[0] nd			[0] nd			[0] nd			[0] nd			[0] nd				MAS
New Seabury, Mashpee	0 (0)			0 (0)			0 (0)			25	A	F	0 (0)			0 (0)				MAS
Popponeset Spit, Mashpee	0 (0)			0 (0)			0 (0)			0 (5)	(A)	0	0 (0)			0 (0)				MAS
Radio City Beach, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Red Jacket Beach, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Red River Beach, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Rushy Marsh Pond, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Sagamore Beach, Sandwich, Sandwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Sandy Neck Beach Park, Barnstable	0 (0)			0 (0)			0 (0)			97	A	P,F,G	0 (0)			0 (0)				Barnstable
Saquaket Bluffs, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Scorton Neck (Torrey), Sandwich	0 (0)			0 (0)			0 (0)			[28] 38	[A] A	P	0 (0)			0 (0)				MAS
Scorton Shores, East Sandwich	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Sandwich
Scusset State Park, Sandwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Seagull Beach, Yarmouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Sippewisset, Falmouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Smuggler's/Bass River Beach, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
South Cape Beach, Mashpee	0 (0)			0 (0)			0 (0)			68	A	F	0 (0)			0 (0)				MAS
Spring Hill Beach, Sandwich	0 (0)			0 (0)			0 (0)			[68] 72 (40)	[A] A (A)	G	0 (0)			0 (0)				Sandwich
Squaw Island Road/Causeway, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Squaw Island, Barnstable	0 (0)			0 (0)			0 (0)			[12*] 0 (0)	[A]	0	0 (0)			0 (0)			Least Tern courtship observed; no nests detected.	MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Standish Way / Colonial Acres, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Stone Horse Yacht Club, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Town Beach - Grey Neck Rd (to shore rd lot)/Earle Road, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Town Neck Beach, Sandwich	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Sandwich
Trunk River, Falmouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Washburn Island, Falmouth	0 (0)			0 (0)			0 (0)			[24] 0 (0)	[A]	0	0 (0)			0 (0)				MAS
West Dennis Beach, Dennis	0 (0)			0 (0)			0 (0)			5 (9)	EN (N)	F	0 (0)			0 (0)				Dennis
Wing's Island, Brewster	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Winstead Inn/Inn on the Beach, Harwich	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Woodneck Beach, Falmouth	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Wychmere, Harwich	0			0			0			[12*] 0	[A]		0			0			Least Terns courted and scraped in pre-A period; eggs not detected. Colony abandonment appeared to be predator-related.	MAS
<b>LOWER CAPE</b>																				
Armstrong Beach, Provincetown	0 (0)			0 (0)			0 (0)			[4] 3 (5)	[I] I (I)	0	0 (0)			0 (0)				NPS

## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Ballston Beach, Truro	0 (0)			0 (0)			0 (0)			0 (1)	(N)	0	0 (0)			0 (0)				MAS
Beach Point, Truro	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Cahoon Hollow, Wellfleet	0			0			0			0			0			0				NPS
Chatharbor Lane, Chatham	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				MAS
Coast Guard Beach, Eastham	0 (0)			0 (0)			0 (0)			50 (28)	I (I)	P	0 (0)			0 (0)				NPS
Cockle Cove, Chatham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Corn Hill Beach, Truro	0 (0)			0 (0)			0 (0)			11 (4)	A (I)	F	0 (0)			0 (0)				MAS
Forest Beach, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Great Is., Wellfleet	0 (0)			0 (0)			0 (0)			2 (11)	I (I)	P	0 (0)			0 (0)				NPS
Harding Beach, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Hardings Shores, Chatham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Hatches Harbor, Provincetown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NPS
Head of the Meadow, Truro	0 (0)			0 (0)			0 (0)			[3] 22 (19)	[I] I (I)	P	0 (0)			0 (0)				NPS
Jeremy Point, Wellfleet	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NPS
Lieutenant Island - NW, Wellfleet	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Marconi Station, Wellfleet	0 (0)			0 (0)			0 (0)			0 (1)	(N)	E	0 (0)			0 (0)				NPS

## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Minimoy Island, Chatham	0 (0)			0 (1)	(N)	0	0 (0)			0 (0)			0 (0)			0 (0)				USFWS
Morris Island Dike - Hardings Beach Point, Chatham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Morris Island NW (dredge spoil), Chatham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
North (Nauset) Beach, Chatham	0 (0)			0 (0)			0 (0)			35	E	P,G	0 (0)			0 (0)				Chatham
North Beach Island, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Chatham
North Monomoy Island, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				USFWS
North Spit, Orleans	0 (0)			0 (0)			0 (0)			70 (21)	A (A)	P	0 (0)			0 (0)				Orleans
Pleasant Street Beach, Chatham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Race Point Beach, Provincetown	0 (0)			0 (0)			0 (0)			9 (8)	I (I)	P	0 (0)			0 (0)				NPS
Race Point North, Provincetown	0 (0)			0 (0)			0 (0)			[5] 31 (39)	[I] I (I)	F	0 (0)			0 (0)				NPS
Race Point South, Provincetown	0 (0)			0 (0)			0 (0)			2 (5)	I (I)	0	0 (0)			0 (0)				NPS
Ridgevale Beach, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
South Beach - Middle Island, Chatham	0 (0)			0 (0)			0 (0)			[52] 176	[A] A	F	0 (0)			0 (0)				MAS
South Beach (Nauset), Orleans	0 (0)			0 (0)			0 (0)			63 (23)	A (AN)	P	0 (0)			0 (0)				Orleans
South Beach (North of Break), Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS

## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
South Beach (South of Break), Chatham	0 (0)			0 (0)			0 (0)			70	A	P	0 (0)			0 (0)				MAS
South Monomoy Island, Chatham	30	N	≥ 0.37 fl/pr	13272	N	1.11 fl/n	0 (0)			499	IN	P	0 (0)			3272	N	G		USFWS
South Sunken Meadow, Eastham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Tern Island, Chatham	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Wood End/Long Point, Provincetown	0 (0)			0 (0)			0 (0)			[6] 7 (24)	[I] I (I)	F	0 (0)			0 (0)				NPS
<b>BUZZARDS BAY</b>																				
Acoaxet, Westport	0			0			0			0			0			0				MAS
Barney's Joy/Little Beach, Dartmouth	0 (0)			0 (0)			0 (0)			28 (48)	A (A)	F	0 (0)			0 (0)				MAS
Bay Point, Swansea	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Bird Island, Marion	1175	N	1.04 fl/n	2079	N	0.61 fl/n	0 (0)			0 (0)			0 (0)			0 (0)				DFW
Blankenship Cove, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Cedar Island, Wareham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Cromeset, Wareham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Demarest Lloyd, Dartmouth	0 (0)			0 (0)			0 (0)			1 (3)	AN (AN)	0	0 (0)			0 (0)				DCR
East Beach, Westport	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Fishing Rock, Westport	0			1			0			0			0			0				MAS
Gooseberry Neck, Westport	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Gravel Island, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Haskell Island, Marion	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				MAS
Horseneck Beach, Westport	0 (0)			0 (0)			0 (0)			[53] 19 (14)	[A] A (AN)	P	0 (0)			0 (0)				DCR
Jug Rock, Westport	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Little Harbor Beach, Wareham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Little Island, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Long Beach Point Wareham, Wareham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Long Island, Fairhaven	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Meadow Island, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Nonquitt, Dartmouth	0			2	A		0			0			0			0				MAS
Pine Island (Angelica Point and Strawberry point), Mattapoisett	0			0			0			0			0			0				DFW
Planting Island Cove, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Planting Island, Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Ram Is., Mattapoisett	1093	N	0.98 fl/nest	3053	N	0.81 fl/n	0 (0)			0 (0)			0 (0)			0 (0)				DFW
Richmond Pond, Westport	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Round Hill Beach, Dartmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Salters Pond, Dartmouth	0 (0)			2	A	0	0 (0)			0 (0)			0 (0)			0 (0)				MAS
South Shore Marshes, Fairhaven	0			0			0			[1] 0	[N]		0			0				DFW
Speaking Rock, Westport	0			1	N		0			0			0			0				MAS
Stewart's Island, Marion	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				MAS
Swift's Beach, Wareham	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Timmy's Rock, Dartmouth	0			9	A		0			0			0			0				MAS
Ward's Rock, Fairhaven	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS, DFW
West Island, Fairhaven	0 (0)			0 (0)			0 (0)			2 (4)	N (N)	P	0 (0)			0 (0)				LCE
Westport Town Beach, Westport	0 (0)			0 (0)			0 (0)			3 (5)	A (A)	G	0 (0)			0 (0)				MAS
Winsegansett Heights, Fairhaven	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
<b>ELIZABETH ISLANDS</b>																				
Cuttyhunk, Gosnold	0 (0)			0 (0)			0 (0)			[13] 12 (20)	[A] A (A)	G	0 (0)			0 (0)				MAS
Nashwena Island, Gosnold	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				DFW
Pasque Island, Gosnold	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				DFW

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Penikese Island, Gosnold	12 (1)	N (N)	1.1 fl/n	1004 (397)	N (N)	1.11 fl/n	0.5	N	*	0 (0)			0 (0)			0 (0)			An Arctic Tern paired with a Common Tern and produced 2 chicks; fledging was uncertain.	DFW
<b>MARTHA'S VINEYARD</b>																				
Arruda's Point / The Jetties, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Beach Road Causeway, Tisbury	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bend in the Road, Edgartown	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Big Gravel Island, Oak Bluffs	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Black Point Pond, Chilmark	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
Caleb's Pond, Edgartown	0			0			0			0			0			0				BW
Cape Higgon, Chilmark	0			0			0			0			0			0				BW
Cape Pogue Elbow / The Narrows, Edgartown	[24*] 0 (0)	[A]	0	[10] 0	[N]	0	0 (0)			[21*] 0 (0)	[A]	0	[8*] 0 (0)	[A]	0	0 (0)			Roseate Terns, Least Terns, and Black Skimmers courted and scraped, but did not lay eggs; prior to A-period, they deserted due to a predation event.	TTOR
Cedar Tree Neck, West Tisbury	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Chilmark Pond, Chilmark	0 (0)			0 (0)			0 (0)			22	A	0	0 (0)			0 (0)				BW
Coskata-East Beach, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Cow Bay, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Cracktuxet Trust Beach, Edgartown	0			0			0			0			0			0				BW
Dogfish Bar, Aquinnah	0 (0)			0 (0)			0 (0)			18	A	0	0 (0)			0 (0)				BW
East Tashmoo, Tisbury	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Eastville Beach, Oak Bluffs	0 (0)			0 (0)			0 (0)			24	A	F	0 (0)			0 (0)				MAS
Edgartown Great Pond (Job's Neck), Edgartown	0 (0)			0 (0)			0 (0)			[160] 56 (22)	[A] A (A)		0 (0)			0 (0)				BW
Edgartown Great Pond, Edgartown	0 (0)			0 (0)			0 (0)			2 (1)	A (A)	0	0 (0)			0 (0)				MVLBC
Edys Island, Chilmark	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Harthaven, Oak Bluffs	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Haystack Island, Edgartown	0			32	A	F	0			0			0			0				MAS
Joseph Sylvia State Beach (Edgartown), Edgartown	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Lamberts Cove, West Tisbury	0			0			0			0			0			0				BW
Leland / East Beach, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Lighthouse Beach, Edgartown	0 (0)			0 (0)			0 (0)			10 (16)	A (I)	F	0 (0)			0 (0)				BW

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Little Beach / Eel Pd., Edgartown	0 (0)			2 (8)	I (A)	P	0 (0)			155 (192)	A (A)	G	3 (2)	I (I)	1.1 fl/pr	0 (0)			2 Skimmer pairs nesting in B-period probably moved from Norton Pt., Edgartown, where they nested unsuccessfully in A-period.	BW
Little Gravel Island, Oak Bluffs	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Little Neck, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Lobsterville Beach, Aquinnah	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Long Point, West Tisbury	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Lucy Vincent Beach, Chilmark	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
Mink Meadows /West Chop, Tisbury	0 (0)			0 (0)			0 (0)			24	A	F	0 (0)			0 (0)				MAS
Nomans Land Island NWR, Chilmark	0 (0)			5 (4)	N (N)	P	0 (0)			0 (0)			0 (0)			0 (0)				USFWS
Norton Point Beach, Edgartown	0 (0)			3 (10)	N (N)	0	0 (0)			297	N	G	8 (2)	N (N)	1.0 fl/pr	0 (0)			2 Skimmer pairs that nested unsuccessfully in A-period probably moved to Little Bch., Edgartown, where they	TTOR

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
																			nested in B-period.	
Oyster Pond, Edgartown	0 (0)			0 (0)			0 (0)			60 (30)	A (A)	P	0 (0)			0 (0)				BW
Paqua Pond, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
Paul's Point, West Tisbury	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
Pease's Pond, Edgartown	[0] nd			[0] nd			[0] nd			[0] nd			[0] nd			[0] nd				BW
Philbin Beach, Aquinnah	[0] nd			[0] nd			[0] nd			[0] nd			[0] nd			[0] nd				BW
Quansoo, Chilmark	0 (0)			0 (≤17*)			0 (0)			22* (0)	A	0	0 (0)			0 (0)			≤17 pairs of Common Terns present in July; courtship observed but it is possible birds were only staging. Least Terns courted during A-period; no nests detected.	MAS
Sarson Is., Edgartown	0 (0)			10* (14*)	A (A)	0	0 (0)			0 (0)			0 (0)			0 (0)			Common Terns courted; no nests detected.	MAS
Seven Gates, West Tisbury	0			0			0			0			0			0				BW
South Beach, Edgartown	0			0			0			0			0			0				BW
Spring Point, Chilmark	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
Squibnocket Beach/Long Beach, Chilmark	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW

## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Stonewall Beach, Chilmark	0 (0)			0 (0)			0 (0)			[6] 0 (2)	[A] (I)	P	0 (0)			0 (0)				BW
Sylvia State Beach Oak Bluffs, Oak Bluffs	0 (00)			0 (0)			0 (0)			[10] 1 (0)	[A] A	0	0 (0)			0 (0)				MAS
Sylvia State Beach, Edgartown	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				
Tisbury Great Pond, West Tisbury	0 (0)			0 (0)			0 (0)			5	AE		0 (0)			0 (0)				MVLBC
Wasque, Edgartown	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Watcha Pond, West Tisbury	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				BW
West Tashmoo, Tisbury	0 (0)			0 (0)			0 (0)			[2] 0 (0)	[AN]	0	0 (0)			0 (0)				BW
Yorke-Allen Point, Edgartown	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
<b>NANTUCKET</b>																				
Capaum Pond, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Coatue, Nantucket	0 (0)			0 (0)			0 (0)			[20] 0 (0)	[A]	0	0 (0)			0 (0)				NCF
Coskata-West Beach, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Eel Point, Nantucket	0 (0)			0 (0)			0 (0)			484 (5)	N (N)	0,F	0 (0)			0 (0)				NCF
Great Point, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
Hummock and West Hummock Ponds, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Little Neck, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Long Pond, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Low Beach, Nantucket	0 (0)			0 (0)			0 (0)			18 (8)	N (N)	P	0 (0)			0 (0)				Nantucket
Monomoy Creeks, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Muskeget Is., Nantucket	* (240*)			* (320*)			0 (0)			24 (8)	A (A)	F	0 (0)			0 (0)			On 6/7 and 6/8, 300-450 Roseate Terns and 300-500 Common Terns present. On 6/22, 300 Roseates and 400 Commons present; courtship and copulations observed for both species but no eggs detected.	MAS, Veit
Muskeget Shoals, Nantucket	0			0			0			0			0			0				
Nantucket NWR (Great Point), Nantucket	0 (0)			0 (0)			0 (0)			33	N	P	0 (0)			0 (0)				USFWS
Polpis Harbor (Medouie Creek and Pocomo Meadows), Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Quidnet/Sesachacha Pond/Greenhills, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
Sheep Pond, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF
Smith Point / Esther Is., Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				Nantucket

## INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
Smith's Point, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				MAS
South Pastures (Madequecham Valley to Tom Nevers), Nantucket	0			0			0			0			0			0				NCF
Squam Pond, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				NCF, MAS
The Galls, Nantucket	0 (0)			0 (2)	(N)	0	0 (0)			56 (119)	I (I)	F	0 (0)			0 (0)				TTOR
The Glades, Nantucket	0 (0)			0 (0)			0 (0)			0 (0)			0 (0)			0 (0)				TTOR
The Haulover, Nantucket	0 (0)			[1] 1	[N] N	E	0 (0)			0 (0)			0 (0)			0 (0)				NCF
Tom Nevers, Nantucket	0 (0)			0 (0)			0 (0)			3	N	0	0 (0)			0 (0)				Nantucket
Tom Nevers/Wanoma, Nantucket	0 (0)			0 (0)			0 (0)			[60] 1	[A] N	P	0 (0)			0 (0)				MAS
Tuckernuck Is. - Whale Point, Nantucket	0 (10*)			0 (6*)	(N)	0	0 (0)			35 (400)	E (E)	E	0 (0)			0 (0)			On 7/7, ≤ 650 Common Terns present; 12 Roseate Terns courting.	TLT, Veit
UMass Field Station, Nantucket	0			0			0			0			0			0				NCF
Washing Pond Road, Nantucket	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Wauwinet, Nantucket	0 (0)			0 (0)			0 (0)			[120] 2	[A] N	P	0 (0)			0 (0)				MAS
Western Ave, Nantucket	0 (0)			0 (0)			0 (0)			[20*] 0 (0)	[A]	0	0 (0)			0 (0)			Least Terns courted then departed before A-period; no nests detected.	MAS

INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2018

Site	Roseate Tern			Common Tern			Arctic Tern			Least Tern			Black Skimmer			Laughing Gull			Notes	Source <sup>c</sup>
	No. pairs	M <sup>a</sup>	P <sup>b</sup>	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P	No. pairs	M	P		
<b>TOTAL 2018 NESTING PAIRS</b>	<b>2310</b>			<b>19729</b>			<b>0.5</b>			<b>3492</b>			<b>11</b>			<b>3272</b>				
TOTAL 2017 NESTING PAIRS	2264			18059			1			2940			8			2745				
% CHANGE FROM 2017	2.0			9.2			0.0			18.8			37.5			19.2				

<sup>a</sup> Method: A = adult count; E = partial/extrapolated count; N = nest count. See text of "Methods" for more details.

<sup>b</sup> Productivity: 0 = none; P = poor; F = fair; G = good; E = excellent. Quantitative estimates are given as fledglings/nest or fledglings/pair.

<sup>c</sup> In addition to the names of towns, counties, and individuals, the following abbreviations are used: BW=BiodiversityWorks; DCR=Massachusetts Department of Conservation and Recreation; DFW=Massachusetts Division of Fisheries & Wildlife; ECGA=Essex County Greenbelt Association; LCE=Lloyd Center for the Environment; MAS=Massachusetts Audubon Society-Coastal Waterbird Program; MVLBC=Martha's Vineyard Land Bank Commission; NCF=Nantucket Conservation Foundation; NPS=National Park Service; TLT=Tuckernuck Land Trust; TNCRI=The Nature Conservancy - Rhode Island; TTOR=The Trustees of Reservations; USFWS=U.S. Fish & Wildlife Service.