# INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2020



Common Tern x Arctic Tern hybrid chick, Penikese I., © MassWildlife

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Massachusetts Division of Fisheries & Wildlife

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#### **ABSTRACT**

Cooperators in Massachusetts surveyed 278 coastal sites in 2020 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 87 sites were occupied by nesting birds. Sites supporting the largest colonies of Roseate Terns, Common Terns, and Laughing Gulls were not surveyed due to issues associated with the COVID pandemic, so statewide abundances for these species are unknown. Compared to 2019, Least Terns decreased to 3,747 pairs (-13%); Arctic Terns decreased from 1.5 pairs to 0.5 pairs, and Black Skimmers decreased from 12 pairs in the A-period to 11 pairs, but an additional 4 pairs nested during the B-period. Earliest and median first egg dates across sites were 18 May/20 May for Roseate Terns, 14 May/26 May for Common Terns, 16 May/30 May for Least Terns, and 21 May/(n/a) for a mixed Arctic Tern/Common Tern pair. No precise chronology data were available for Black Skimmer or 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 2020 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 for each colony: 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.

Data Reporting and Quality Control: Most observers enter data into the Tern Online Data Entry System (TERNODES); a few 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.

In order to be tallied in the statewide A-period total in the absence of eggs or chicks being detected, birds must have been territorial, engaged in courtship, or making nest scrapes in appropriate nesting habitat. If birds exhibiting these behaviors were suspected of being associated with nearby colonies, or if they were solely exhibiting these behaviors in non-nesting habitat (e.g., intertidal areas), they are not tallied in the statewide A-period total to avoid double-counting.

**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-colony values (i.e., the median of the "first" or "last" dates reported for different colonies), not the within-colony median dates for individual birds or nests.

### **RESULTS AND DISCUSSION**

In 2020, 278 sites were surveyed for nesting terns, Laughing Gulls, and Black Skimmers. Approximately 87 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 2020.

2020		Roseate Tern	Common Tern	Arctic Tern/ Common Tern <sup>c</sup>	Least Tern	Black Skimmer	Laughing Gull
Date first adults observed	Earliest date (site)	29-Apr (Bird I., Marion)	29-Apr (Bird I., Marion)	14-May (Penikese I., Gosnold)	3-May (Tuckernuck I Whale Pt.)	6-May (Little Bch./Eel Pd., Edgartown)	nd <sup>e</sup>
observed	Median <sup>a</sup> (n) <sup>b</sup>	13-May (5)	17-May (23)	n/a <sup>d</sup>	18-May (89)	n/a	nd
Date first eggs laid	Earliest date (site)	18-May (Bird I., Marion)	14-May (Bird I., Marion)	21-May (Penikese I., Gosnold)	16-May (Winthrop Bch., Winthrop)	26-to 31-May (Little Bch./Eel Pd., Edgartown)	nd
	Median (n)	20-May (3)	26-May (11)	n/a	30-May (71)	n/a	nd
Date first chicks	Earliest date (site)	12-Jun (Ram I., Mattapoisett)	7-Jun (Bird I., Marion)	16-Jun (Penikese I., Gosnold)	12-Jun (Winthrop Bch., Winthrop)	20-Jun (Little Bch./Eel Pd., Edgartown)	nd
hatched	Median (n)	13-Jun (3)	14-Jun (6)	n/a	26-Jun (62)	n/a	nd
Last date young	Latest date (site)	19-Aug (Ram I., Mattapoisett)	26-Aug (Little Bch./Eel Pd., Edgartown)	nd	16-Sep (Winthrop Bch., Winthrop)	24-Aug (Little Bch./Eel Pd., Edgartown)	nd
observed	Median (n)	18-Aug (2)	6-Aug (9)	n/a	5-Aug (47)	n/a	nd

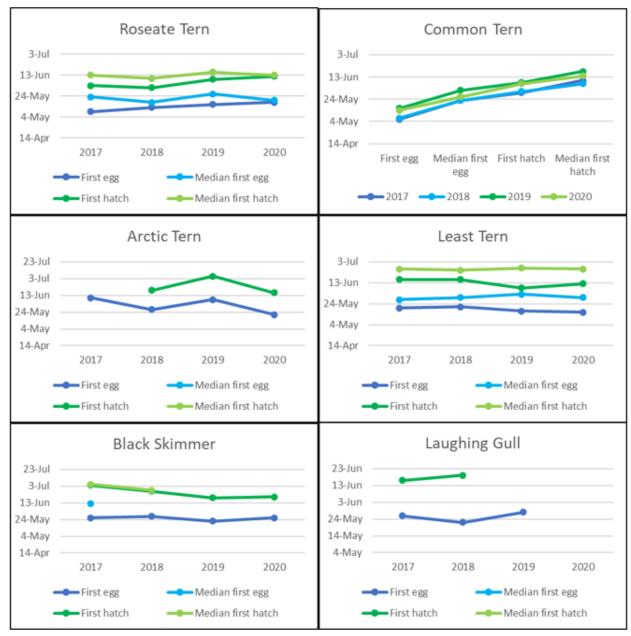
<sup>&</sup>lt;sup>a</sup> Median dates refer to the among-colony values (i.e., the median of the "first" or "last" dates reported for different colonies), not the within-colony median dates for individual birds or nests. For colonies reporting a date range of ≤5 days (instead of a single value), the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

 $<sup>^{\</sup>mathtt{b}}$  n – number of colonies

 $<sup>^{\</sup>rm c}$  Values refer to a mixed Arctic Tern/Common Tern pair on Penikese I.; no pure Arctic pairs nested.

 $<sup>^{\</sup>rm d}$  n/a – not applicable (used if species nested in a single colony or no hatching occurred)

end – no data



**Figure 1**. Key tern, Black Skimmer, and Laughing Gull nesting dates, 2017 - 2020. "First egg" and "first hatch" indicate the earliest egg laying and hatching dates reported statewide. Median dates refer to the among-colony values (i.e., the median of the "first" dates reported for different colonies), not the within-colony median dates for individual birds or nests. For colonies for which a date range of  $\leq 5$  days (instead of a single value) was reported, the median value for the range was used in analyses; ranges > 5 days were not used in analyses.

#### **Abundance and Distribution**

#### Roseate Tern

# Summary, 2020

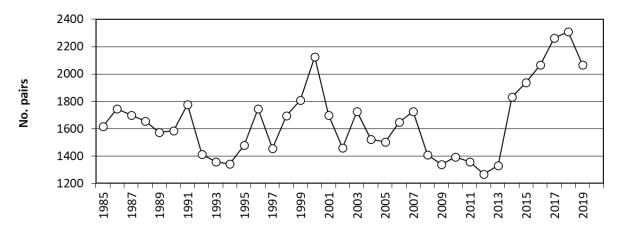
Number of nesting sites:	5	
Number of pairs, A-period:		
% change in number of pairs from 2019:	no data; 2 largest colonies not	
10 largest sites, percent of total A-period pairs:	censused due to	
3 largest sites, percent of total A-period pairs:	COVID	
Average number of A-period pairs, 1985 - present (range)	COVID	

Statewide Roseate Tern abundance in 2020 was unknown because the two largest colonies were not censused due to the COVID pandemic. **Table 2** provides site-specific data for all sites where Roseate Tern nesting was confirmed.

Table 2. Abundance and productivity of Roseate Terns at nesting sites in Massachusetts, 2020.

Site	No. pairs, A-period (2020)	No. additional pairs, B-period (2020)			Notes (2020)
Bird Island, Marion	nd	nd	1.00 fl/nest	` '	Not censued, but colonies
					estimated to be similar in size
Ram Is., Mattapoisett	nd	nd	1.03 fl/nest	919	to 2019.
Muskeget Island, Nantucket	0	40	0	nd	
Penikese Island, Gosnold	25	1	0.82 fl/nest	15	
South Monomoy Island, Chatham	3	1	nd	12	Minimum estimate

Since 1985, Roseate numbers in the state have fluctuated, but the overall trend during 2012 – 2019 was strongly increasing (Fig. 2).



**Figure 2.** Number of nesting Roseate Tern pairs in Massachusetts, 1985 – 2019. (No data available for 2020.)

#### **Common Tern**

### Summary, 2020

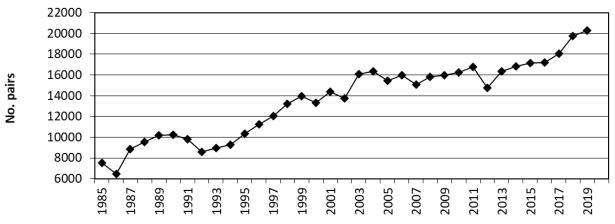
Number of nesting sites:	28
Number of pairs, A-period:	
% change in number of pairs from 2019:	no data; 3 primary
10 largest sites, percent of total A-period pairs:	colonies not censused
3 largest sites, percent of total A-period pairs:	due to COVID
Average number of A-period pairs, 1985 - present (range)	

Statewide Common Tern abundance in 2020 was unknown because the three largest colonies were not censused due to the COVID pandemic. Outside of the largest colonies, 3,181 pairs were counted. **Table 3** provides site-specific data, where available, for the largest Common Tern nesting sites in 2020.

**Table 3**. Abundance and productivity of Common Terns at the 10 largest nesting sites in Massachusetts, 2020. Multiple productivity estimates for a site may represent values for multiple colonies or the upper and lower bounds of a range in estimates.

	No. pairs, A-period		No. pairs,	
Site	(2020)	Productivity (2020)	(2019)	Notes (2020)
South Monomoy Island, Chatham	no data	nd	14343	Not censused, but colonies
Bird Island, Marion	no data	0.63 fledg./nest	1855	estimated to be similar in size
Ram Is., Mattapoisett	no data	0.94 fledg./nest	2631	to 2019.
Penikese Island, Gosnold	1500	0.82 fledg./nest	887	
Muskeget Island, Nantucket	800	0	nd	
Little Beach / Eel Pd., Edgartown	339	0, excellent	41	
Central Square, East Boston	127	nd	44	
General Edwards Bridge, Rte 1A, Revere-Lynn	92	nd	44	
Haystack Island, Edgartown	56	good	48	
Mystic River Bridge, Somerville-Everett	56	nd	6	

Common Tern numbers rose rapidly in Massachusetts during 1982 – 2003, slowed or leveled off during 2004 – 2016, and increased more rapidly during 2017 – 2019 (Fig. 3).



**Figure 3.** Number of nesting Common Tern pairs in Massachusetts, 1985 – 2019. (No data available for 2020.)

# Arctic Tern

Summary, 2020

Number of nesting sites:	1
Number of pairs, A-period:	0.5
% change in number of pairs from 2019:	-66.7
Additional pairs, B-period:	0
Average number of A-period pairs, 1985 - present (range)	7 (0 - 29)

On Penikese I., Gosnold, a mixed Arctic Tern/Common Tern pair nested. **Table 4** provides more detail.

**Table 4**. Abundance and productivity of Arctic Terns in Massachusetts, 2020.

	No. pairs, A-		No. pairs, A-	
	period	Productivity	period	
Site	(2020)	(2020)	(2019)	Notes (2020)
				One mixed Arctic x Common Tern pair laid one nest
		1 hybrid		with two eggs. One egg hatched & the chick
Penikese I., Gosnold	0.5	fledgling	1.5	fledged.

Since 1985, there has been an overall downward trend in abundance of this very rare, range-edge species, which has almost disappeared in MA (Fig. 4).

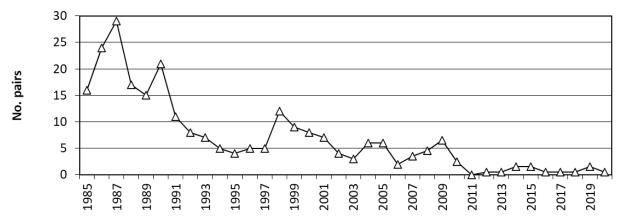


Figure 4. Number of nesting Arctic Tern pairs in Massachusetts, 1985 – 2020.

# Least Tern

### Summary, 2020

• • • • • • • • • • • • • • • • • • • •	
Number of nesting sites:	68
Number of pairs, A-period:	3747
% change in number of pairs from 2019:	-12.6
10 largest sites, percent of total A-period pairs:	72.5
3 largest sites, percent of total A-period pairs:	41.6
Average number of A-period pairs, 1985 - present (range)	3033 (2109 - 4309)

Least Terns decreased 12.6% from 2019. **Table 5** provides site-specific data for the largest sites.

**Table 5**. Abundance and productivity of Least Terns at the 10 largest A- or B-period nesting sites in Massachusetts, 2020. Multiple productivity estimates for a site may represent values for multiple colonies or the upper and lower bounds of a range in estimates.

		No. pairs, B-		No. pairs, A-
	No. pairs, A-	period		period
Site	period (2020)	(2020)	Productivity (2020)	(2019)
Little Beach / Eel Pd., Edgartown	625	-	poor, fair, excellent	346
South Beach - Middle Island, Chatham	620	400	good	400
Edgartown Great Pond (Job's Neck), Edgartown	314	-	0	0
Duxbury Beach, Duxbury	299	30	good, excellent	129
Tuckernuck Is Whale Point, Nantucket	232	19	poor	40
Barney's Joy/Little Beach, Dartmouth	200	15	poor	98
Muskeget Island, Nantucket	50	175	0, excellent	nd
Crane Beach, Ipswich	149	-	good	190
Dead Neck Sampsons Island, Barnstable	128	88	fair, good	16
Sandy Neck Beach Park, Barnstable	98	78	poor, fair, good	150

The overall trend in Least Tern numbers since 1985 has been positive, but there has been considerable volatility in the numbers (**Fig. 5**); some of this may reflect the difficulties inherent in estimating Least Tern population sizes as well as presumed shifting of birds among states.

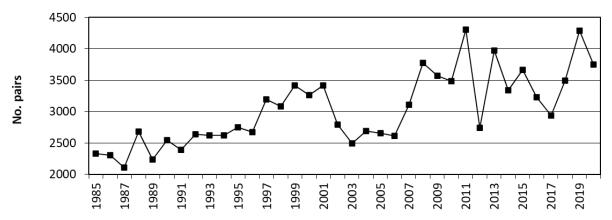


Figure 5. Number of nesting Least Tern pairs in Massachusetts, 1985 – 2020.

#### **Black Skimmer**

#### Summary, 2020

Number of nesting sites:	1
Number of pairs, A-period:	11
% change in number of pairs from 2019:	-8.3
Additional pairs, B-period:	4
Average number of A-period pairs, 1985 - present (range)	5 (0 - 12)

Black Skimmers decreased by one pair to 11 pairs in the A-period. Four additional pairs nested in the B-period. Skimmers nested at a single site, Little Beach/Eel Pond, Edgartown, and productivity was very good (**Table 6**).

Table 6. Abundance and productivity of Black Skimmers in Massachusetts, 2020.

				No.	
	No. pairs,	No. additional		pairs, A-	
	A-period	pairs, B-		period	
Site	(2020)	period (2020)	Productivity (2020)	(2019)	Notes (2020)
Little Beach / Eel Pd., Edgartown	11	4	1.53 fledg./pair	12	15 pairs total for nesting season

Black Skimmers, which are at the northern end of their breeding range in Massachusetts, have been increasing rapidly since 2014 (Fig. 6).

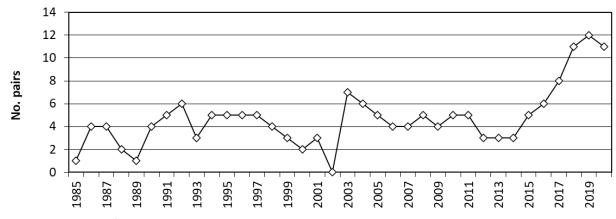


Figure 6. Number of nesting Black Skimmer pairs in Massachusetts, 1985 – 2020.

# Laughing Gull

### Summary, 2020

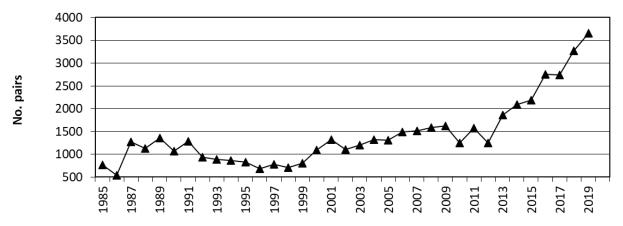
Number of nesting sites:	1
Number of pairs, A-period:	no data; not
% change in number of pairs from 2019:	censused due
Average number of A-period pairs, 1985 - present (range)	to COVID

Statewide Laughing Gull abundance in 2020 was unknown because no census was conducted at the sole colony due to the pandemic. Laughing Gulls nested only at South Monomoy I., Chatham, where they appeared to be abundant (**Table 7**).

**Table 7**. Abundance and productivity of Laughing Gulls in Massachusetts, 2020.

	No. pairs,		No. pairs,	
	A-period	Productivity	A-period	Notes
Site	(2020)	(2020)	(2019)	(2020)
South Monomoy Island, Chatham	no data	no data	3659	abundant

Laughing Gulls have been increasing rapidly since 1998, with the rate accelerating since 2012 (**Fig. 7**). Because Laughing Gulls compete with Common and Roseate Terns for space and resources and are predators of terns, population monitoring is very important.



**Figure 7.** Number of nesting Laughing Gull pairs in Massachusetts, 1985 – 2019. (No data available for 2020.)

### **ACKNOWLEDGEMENTS**

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

Appendix A. Numbers of pairs and productivity of terns, Laughing Gulls, and Black Skimmers nesting in Massachusetts in 2020. All sites were censused unless noted as "nd" (no data). Data in parentheses () refer to B-period (post-peak) counts. Data in brackets [] were collected prior to the A-period census window. Multiple productivity estimates for a site may represent values for multiple colonies or the upper and lower bounds of a range in estimates. An asterisk (\*) indicates that the Notes column should be consulted for more information.

	Ros	eate T	ern	Com	mon To	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	Р	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	P	Notes	Source <sup>c</sup>
NORTH SHORE																				
	[nd]															[nd]				
Bagwell Island,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Ipswich	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				ECGA
Belle Isle Marsh,	[nd]			[nd]												[nd]				
Boston	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
	[nd]															[nd]				
Blackwater River	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Group, Salisbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				ECGA
Carson Beach, South	0															0				
Boston	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[nd]			[nd]												[nd]				
Central Square, East	0			127			[nd] 0			[nd] 0			[nd] 0			0				
Boston	(nd)			(nd)	Α		(nd)			(nd)			(nd)			(nd)				Zendeh
	[nd]			[nd]												[nd]				
Chaces Island,	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Newbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				USFWS
	[nd]			[nd]												[nd]				
Chelsea Creek, East	0			29			[nd] 0			[nd] 0			[nd] 0			0				
Boston-Chelsea	(nd)			(nd)	Α		(nd)			(nd)			(nd)			(nd)				Zendeh
Clubhead Creek,																				
Rowley	0			2	Α		0			0			0			0				ECGA
Constitution Beach,	0															0				
Boston	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[0] 0			[0] 0												[0] 0				
Crane Beach, Ipswich	(0)			(0)			[0] 0 (0)			149	N	G	[0] 0 (0)			(0)				TTOR
General Edwards	[nd]			[nd]												[nd]				
Bridge, Rte 1A,	0			92						[nd] 0			[nd] 0			0				
Revere-Lynn	(nd)			(nd)	Α		[nd] 0			(nd)			(nd)			(nd)				Zendeh
	0															0				
Georges I., Boston	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[nd]															[nd]				
Ipswich Salt Marshes,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Ipswich	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				ECGA
	[nd]															[nd]				
Jeffrey's Point, East	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Boston	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				Zendeh

	Ros	eate T	ern	Com	mon Te	ern	Arctio	Tern		Leas	t Tern		Black	Skimm	er	Laugh	ing G	ull		
Site	No.	Mª	Pp	No. pairs	м	Р	No.	М	Р	No. pairs	М	Р	No.	М	Р	No.	М	Р	Notes	Source
L-K-M St. Bathhouse,	0		•	Pame		•	pas		-	1101 pails		-	puo		-	0		-		
Boston	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Logan International	[0] 0			[0] 0			ì			` '			, ,			[0] 0				USDA-
Airport, Boston, MA	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				APHIS
	[nd]															[nd]				
	0			[nd] 6			[nd] 0			[nd] 0			[nd] 0			0				
Lords Island, Ipswich	(nd)			(nd)	Α		(nd)			(nd)			(nd)			(nd)				ECGA
Lovell's Beach,	[0] 0			[0] 0			[0] 0 (0)			27 (0)	A (A)	Р	[0] 0 (0)			[0] 0				
Boston	(0)			(0)			[0] 0 (0)			27 (8)	(A)	Р	[0] 0 (0)			(0)				MAS
M St DCR, Boston	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Wi St. Delt, Boston	[nd]			[nd]			o (na)			o (na)			o (na)			[nd]			COTE were	IVIAS
Mystic River Bridge,	0			56			[nd] 0			[nd] 0			[nd] 0			0			nesting on	
Sommerville-Everett	(nd)			(nd)	Α		(nd)			(nd)			(nd)			(nd)			barge.	Zendeh
Newbury Town	[0] 0			[0] 0												[0] 0				
Beach , Newbury	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Newburyport ,	[0] 0			[0] 0							[A]					[0] 0				
Newburyport	(0)			(0)			[0] 0 (0)			[8] 12	A	Ε	[0] 0 (0)			(0)				MAS
Parker River NWR,	[0] 0			[0] 0												[0] 0				
Newbury/Rowley	(0)			(0)			[0] 0 (0)			92	Α	Р	[0] 0 (0)			(0)				USFWS
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[nd]			[nd]			[-]-(-)						[0] 0 (0)			[nd]				
Plum Island River	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Group, Newbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				USFWS
Rainsford Island,	[0] 0			[0] 0												[0] 0				
Boston	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
	[nd]			[ 4] 0			[ 4] 0			[ 4] 0			[ 4] 0			[nd]				
Roger Island, Ipswich	0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			0 (nd)				ECGA
Route 99 Bridge,	nd			nd			(IIU)			(IIu)			(IIu)			nd				LCGA
Boston	(0)			(44)	(A)		nd (0)			nd (0)			nd (0)			(0)				Zendeh
	[nd]			, ,	` '		. ,			,			, ,			[nd]				
Rowley Salt Marshes,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Rowley	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				ECGA
	[0] 0			[0] 0							[A]					[0] 0				
Sandy Point, Ipswich	(0)			(0)			[0] 0 (0)			[100] 85	Α	G	[0] 0 (0)			(0)				DCR
Snake Island ,	[0] 0					3										[0] 0				
Winthrop	(0)			1	I	fl/n	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Constanta L Danta	0 (nd)			0 (= 4)			0 (= 4)			0 ( = 4)			0 (= 4)			(nd)				NAAS
Spectacle I., Boston	(nd) [nd]			0 (nd) [nd]			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Tinker's Island,	inaj nd			nd nd			[nd] nd			[nd] nd			[nd] nd			[nd] nd				
Marblehead	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Winthrop Beach,	[0] 0			[0] 0			()			()	[A]		()			[0] 0				
Winthrop Beach,	(0)			(0)			[0] 0 (0)			[35] 50	[A] A	G	[0] 0 (0)			(0)				DCR

	Ros	eate T	ern	Com	mon To	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Ma	Pb	pairs	М	P	pairs	М	P	No. pairs	M	P	pairs	M	P	pairs	М	Р	Notes	Source <sup>c</sup>
Wollaston Beach,	0															0				
Quincy	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[nd]			[nd]												[nd]				
Woodbridge Island,	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Newburyport	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				USFWS
Yirrell Beach,	[0] 0			[0] 0												[0] 0				
Winthrop	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Winthrop
SOUTH SHORE																				
	[0] 0			[0] 0												[0] 0				
Boathole, Plymouth	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				DBR
Duxbury Beach,	[0] 0			[0] 0						[164]	[A] I	G,				[0] 0				
Duxbury	(0)			(0)			[0] 0 (0)			299 (30)	(1)	E	[0] 0 (0)			(0)				DBR
Ellisville Harbor State	[0] 0			[0] 0			,			` '	, ,					[0] 0				
Park , Plymouth	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
· · · · · ·				<u> </u>			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			` '				IVIAS
Ellisville Shifting Lots,	[0] 0			[0] 0			[0] 0 (0)			2.4		P	[0] 0 (0)			[0] 0				1446
Plymouth	(0)			(0)			[0] 0 (0)			24	Α	Р	[0] 0 (0)			(0)				MAS
	[0] 0			[0] 0						[10] 2	[A]					[0] 0				
Fourth Cliff, Scituate	(0)			(0)			[0] 0 (0)			(0)	AN	0	[0] 0 (0)			(0)				MAS
					[A]															
Musquashicut Pond,	[0] 0			[4] 4	A											[0] 0				
Scituate	(0)			(4)	(1)		[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Nantasket Beach,	0															0				
Hull	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Plymouth Long					Ν						N									
Beach, Plymouth	0	N		17 (6)	(N)	F	0			59 (4)	(N)	G	0			0				Plymouth
Rexhame Beach,	0			17 (0)	(,					33 (.)	(,					0				,
Marshfield	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Sagamore Beach,	0			U (IIU)			o (nu)			O (Hu)			o (nu)			0				IVIAS
Bourne	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	, ,			o (na)			o (na)			0 (114)			o (na)			` ′				1411.0
Sagamore Beach,	0			0 ( 4)			0 ( 4)			0 ( 4)			0 ( 4)			0				1446
Plymouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Saquish Beach	[nd]			[nd] nd			[nd] nd			[nd] nd			[nd] nd			[nd]				
Plymouth	nd (nd)			(nd)			(nd)			(nd)			(nd)			nd (nd)				
	[nd]			[nd]			(IIu)			(IIU)			(IIu)			[nd]				
	0			46			[nd] 0			[nd] 0			[nd] 0			0				
Spinnaker Island, Hull	(nd)			(nd)	Α		(nd)			(nd)			(nd)			(nd)				NPS
Spirifiakei isiailu, Hull	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				IVI 3
The Glades, Scituate	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				MAS
5.4453, 56144416							()			<u> </u>	F12 ·		()							
Third Cliff Caitage	[0] 0			[0] 0			[0] (0)			[22] 11	[1] 1	_ r	(0) 0 (0)			[0] 0				NAAC
Third Cliff, Scituate	(0)			(0)			[0] 0 (0)			(8)	(1)	Р	[0] 0 (0)			(0)				MAS
UPPER CAPE																				

# INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2020

	Ros	eate T	ern	Comi	mon Te	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
Site	No.	Mª	Pb	No. pairs	М	Р	No. pairs	м	P	No. pairs	М	Р	No. pairs	М	Р	No.	М		Notes	Source
Allens Harbor, Harwich	[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)				
Bank Street Beach, Harwich	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				Harwich
Bass River Beach / Smuggler's, Yarmouth	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bassetts I., Bourne	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Bayview/Howes Beach, 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)			[16*] 44*	[A] A	0	[0] 0 (0)			[4*] 0	[A]	0	[0] 0 (0)			[0] 0 (0)			COTE & LETE territoriality & courtship observed on intertidal sandbar, but no nests detected on upper beach. Birds not tallied in statewide total.	MAS
Bone Hill Rd., Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Chapin Beach, Dennis	[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)				
Craigville Beach, Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)	-		0 (nd)			0 (nd)				MAS
Crosby Landing, Brewster	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[32] 45 (72)	[A] A (A)	P	[0] 0 (0)			[0] O (0)			Regular coyote predation limited LETE incubation counts (max. IC = 12 pairs on 6/13).	MAS

	Ros	eate T	ern	Com	mon Te	ern	Arctic	Tern		Leas	t Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	Р	pairs	M	Р	pairs	M	Р	Notes	Source <sup>c</sup>
																			COTE courted &	
																			scraped during	
											[A]								5/17-5/19. No incubating birds	
Dead Neck Sampsons	[0] 0				[A]					[128]	A	F,				[0] 0			or nests ever	
Island, Barnstable	(0)			[3*] 0	Α	0	[0] 0 (0)			128 (88)	(A)	G	[0] 0 (0)			(0)			observed.	MAS
Dowses Beach,	[0] 0			[0] 0												[0] 0				
Barnstable Dr. Botero Rd.,	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Barnstable
Dr. Botero Rd.,	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
East Sandwich Beach,	[0] 0			[0] 0			, ,			` ,			` '			[0] 0				
East Sandwich	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Sandwich
Fortes Beach,	0			0 (== 4)			0 ( 4)			0 ( = 4)			0 (===1)			0				NAAC
Barnstable	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)			Some COTE &	MAS
																			LETE fledging	
																			may have	
Gray's Beach,	[0] 0			32	Α											[0] 0			occurred during 6/19-7/9 gap in	
Yarmouth	(0)			(12)	(A)	0*	[0] 0 (0)			14	Α	0*	[0] 0 (0)			(0)			visitation.	MAS
											[A]									
Great Island - Smith Point, Yarmouth	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[16] 2 (6)	A (A)	Е	[0] 0 (0)			[0] 0 (0)				MAS
Great Island	0			(0)			[0] 0 (0)			(0)	(八)		[0] 0 (0)			0				IVIAS
Causeway, Yarmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Kalmus Beach,	[0] 0			[0] 0												[0] 0				
Barnstable	(0)			(0)			[0] 0 (0)			[30] 0	[A]	0	[0] 0 (0)			(0)				Barnstable
Little Island Beach,	0															0				
Falmouth Long Beach,	(nd) [0] 0			0 (nd) [0] 0			0 (nd)			0 (nd)	[A]		0 (nd)			(nd) [0] 0				MAS
Barnstable	(0)			(0)			[0] 0 (0)			[22] 4	(A)	0	[0] 0 (0)			(0)				MAS
Maushop Village -	, ,			` '			. , , ,			. ,			. , , ,			ì				
Rock Landing,	0			0 (== 4)			0 ( 4)			0 ( = d)			0 (===1)			0				NAAC
Mashpee Memorial	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Beach/Covell's,	0															0				
Barnstable	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Menauhant Beach,	0			0,4 "			0 ( "			0, "			0 ( "			0				
Falmouth Mussel Point,	(nd) [0] 0			0 (nd) [0] 0			0 (nd) [0] 0			0 (nd) [0] 0			0 (nd) [0] 0			(nd)				MAS
Barnstable	(nd)			(nd)			(nd)			(nd)			(nd)			[0] 0 (nd)				MAS
New Seabury,	[0] 0			[0] 0			, ,			, ,			` ,			[0] 0				
Mashpee	(0)			(0)			[0] 0 (0)			16	Α		[0] 0 (0)			(0)				MAS

	Ros	eate T	ern	Com	mon Te	ern	Arctic	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.		-h	No.			No.						No.		_	No.				
Site	pairs	Mª	Pb	pairs	М	Р	pairs	М	P	No. pairs	М	Р	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
Popponesset Spit,	[0] 0			[0] 0			[0] 0 (0)			[0] 0 (0)			[0] (0)			[0] 0				N4AC
Mashpee	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Radio City Beach,	0			0 (1)			0 ( 1)			0 ( 1)			0 (1)			0				2446
Yarmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Red Jacket Beach,	0			0 ( 1)			0 ( 1)			0 ( 1)			0 ( 1)			0				
Yarmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Red River Beach, Harwich	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				Harwich
Rushy Marsh Pond,	<u> </u>			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)							Tial Wich
Barnstable	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
	<u> </u>			U (Hu)			U (na)			U (na)			U (Hu)			<u> </u>				IVIAS
Sagamore Beach,	0			0 (1)			0 (===1)			0 (1)			0 ( 4)			0				NAAC
Sandwich	(nd)			0 (nd)			0 (nd)			0 (nd)		n	0 (nd)			(nd)				MAS
Sandy Neck Beach	[0] 0			[0] 0							Α	P, F,				[0] 0				
Park, Barnstable	(0)			(0)			[0] 0 (0)			98 (78)	(AN)	G G	[0] 0 (0)			(0)				Barnstable
	[nd]			[nd]			[0] 0 (0)			55 (1.5)	(,		[-] - (-)			[nd]				
Saquatucket Bluffs, Harwich	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
narwich	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
											[A]									
Scorton Neck	[0] 0			[0] 0			[0] 0 (0)			[25] 18	Α (Δ)	F,	[0] 0 (0)			[0] 0				
(Torrey), Sandwich	(0)			(0)			[0] 0 (0)			(24)	(A)	G	[0] 0 (0)			(0)				MAS
Scorton Shores, East	[0] 0			[0] 0												[0] 0				
Sandwich	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	-			Sandwich
Scusset State Park,	0															0				
Sandwich	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Seagull Beach, Yarmouth	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[42] 24	[A] A	G	[0] 0 (0)			[0] 0 (0)				MAS
Sippewisset,	[0] 0			[0] 0			[0] 0 (0)			[42] 24	A	G	[0] 0 (0)			[0] 0				IVIAS
Falmouth	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Smuggler's/Bass	(-)			(-)			[-] - (-)			[-]-(-)			2-3- (-7			(-,				-
River Beach,	0															0				
Yarmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
South Cape Beach,	[0] 0			[0] 0												[0] 0				
Mashpee	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Spring Hill Beach,	[0] 0			[0] 0												[0] 0				
Sandwich	(0)			(0)			[0] 0 (0)			11	N	F	[0] 0 (0)			(0)				Sandwich
Squaw I.																				
Road/Causeway,	0															0				
Barnstable	(nd)			0 (nd)			0 (nd)			0 (nd)	F 4 3		0 (nd)			(nd)				MAS
Squaw Island,	[0] 0			[0] 0			[0] (0) (0)			[0] 14	[A]	ח	[0] (0)			[0] 0				NAAS
Barnstable	(0)			(0)			[0] 0 (0)			[8] 14	Α	Р	[0] 0 (0)			(0)				MAS

	Ros	eate T	ern	Com	mon To	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Ma	Pb	pairs	М	P	pairs	М	Р	No. pairs	M	Р	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
Standish Way /																				
Colonial Acres,	0						a ( 1)						a ( 1)			0				
Yarmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Stone Horse Yacht	0															0				
Club, Harwich	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Swan River/Miramar,	[0] 0			[0] 0							[A]					[0] 0				
Dennis	(0)			(0)			[0] 0 (0)			[16] 4	Α	F	[0] 0 (0)			(0)				MAS
Town Beach - Grey																				
Neck Rd (to Shore	[nd]			[nd]												[nd]				
Rd. lot)/Earle Road	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Harwich	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Town Neck Beach ,	[0] 0			[0] 0												[0] 0				
Sandwich	(0)			(0)			[0] 0 (0)			12	N	F	[0] 0 (0)			(0)				Sandwich
Trunk River/Moors,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Falmouth	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				MAS
Washburn Island,	[0] 0			[0] 0												[0] 0				
Falmouth	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
West Dennis Beach,	[0] 0			[0] 0							N					[0] 0				
Dennis	(0)			(0)			[0] 0 (0)			22 (28)	(N)	F	[0] 0 (0)			(0)				Dennis
	0															0				
Wing's I., Brewster	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Winstead Inn/Inn on	0															0				
the Beach, Harwich	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Woodneck Beach,	0															0				
Falmouth	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[0] 0			[0] 0							[A] I					[0] 0				
Wychmere, Harwich	(0)			(0)			[0] 0 (0)			[8] 3 (5)	(1)	F	[0] 0 (0)			(0)				MAS
LOWER CAPE																				
											[AI]									
Armstrong Beach,	[0] 0			[0] 0						[31] 16	Al					[0] 0				
Provincetown	(0)			(0)			[0] 0 (0)			(14)	(AI)	P, F	[0] 0 (0)			(0)				NPS
Ballston Beach ,	[0] 0			0 [0]			[-] - (-)			()	(*,	.,.	[-] - (-)			[0] 0				
Truro	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Ballston Town Beach,	0															0				
Eastham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[0] 0			[0] 0			, ,			. ,			, ,			[0] 0				
Ballston, Truro	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
	[0] 0			[0] 0		,										[0] 0				
Beach Point, Truro	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Bound Brook,	[0] 0			[0] 0									fe1 = (=)			[0] 0				
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS

	Ros	eate T	ern	Com	mon Te	ern	Arctio	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	M	P	pairs	М	P	No. pairs	M	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
Cahoon Hollow,	[0] 0			[0] 0												[0] 0				
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
Chatharbor Lane,	0															0				
Chatham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
											[A]									
Coast Guard Beach,	[0] 0			[0] 0						[12] 11	N					[0] 0				
Eastham	(0)			(0)			[0] 0 (0)			(19)	(IN)	Р	[0] 0 (0)			(0)				NPS
											[IN]									
	[0] 0			[0] 0						[9] 20	AN					[0] 0				
Coast Guard, Truro	(0)			(0)			[0] 0 (0)			(10)	(AI)	G	[0] 0 (0)			(0)				NPS
Cockle Cove,	0															0				
Chatham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
											[A]									
Corn Hill Beach,	[0] 0			[0] 0			[0] 0 (0)			[40] 2	Α (Δ)		[0] 0 (0)			[0] 0				
Truro	(0)			(0)			[0] 0 (0)			(0)	(A)	0	[0] 0 (0)			(0)				MAS
Duck Harbor, Wellfleet	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				NPS
Weinieet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				INI 3
				fa) a						fa) =	[A]					,,,,				
Fuit O Dravinastava	[0] 0			[0] 0			[0] 0 (0)			[2] 5	AI (AI)	F	(0) 0 (0)			[0] 0				NPS
Exit 9, Provincetown	(0) [0] 0			(0) [0] 0			[0] 0 (0)			(12)	(AI)	Г	[0] 0 (0)			(0) [0] 0				NP3
Fisher Beach, Truro	(0)			(0)			[0] 0 (0)			4 (31)	(A)	F	[0] 0 (0)			(0)				MAS
Tistici Beach, Traio	(0)			(0)			[0] 0 (0)			+ (31)	(~)		[0] 0 (0)			(0)				IVIAS
																			LETE present	
																			(max., 14 adults)	
																			starting 5/13. 1	
																			pair courted in	
																			intertidal on 6/3; no	
																			scraping/nesting	
																			observed. Site	
																			abandoned after	
																			6/22. Birds not	
Forest Beach,	[0] 0			[0] 0							[A]					[0] 0			tallied in	
Chatham	(0)			(0)			[0] 0 (0)			[1*] 0	Α		[0] 0 (0)			(0)		ļ	statewide total.	MAS
	[0] 0			[0] 0			[0] 0 (0)			[ [ [ [ ] ] ]			[ [ ] [ ] [ ] [ ]			[0] 0				
Great Is., Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	-			NPS
Harding Beach,	[0] 0			[0] 0 (0)			(0) 0 (0)			[0] 0 (0)			[0] (0) (0)			[0] 0				MAS
Chatham Harding Shores,	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	-			CAIVI
Chatham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	, ,			<u> </u>			o (na)			5 (11d)			J (IIII)			· ·				
Hatches Harbor,	[0] 0 (0)			[0] 0			[0] 0 (0)			[0] 0 (1)	(N)	Е	[0] 0 (0)			[0] 0 (0)				NPS
Provincetown	(0)			(0)			[0] 0 (0)			[0] 0 (1)	(IV)	E	[0] 0 (0)			(0)				INP3

	Ros	eate T	ern	Com	mon To	ern	Arctio	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
											[AI]									
Head of the	[0] 0			[0] 0						[15] 8	ΑI					[0] 0				
Meadow, Truro	(0)			(0)			[0] 0 (0)			(6)	(AI)	Р	[0] 0 (0)			(0)				NPS
Herring Cove,	[0] 0			[0] 0												[0] 0				
Provincetown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
High Head, Truro	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				NPS
Jeremy Point,	[0] 0			[0] 0			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0				INFS
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
Lecount Hollow,	[0] 0			[0] 0						,,,,			,			[0] 0				
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
Lieutenant Island -	[nd]			[nd]									,			[nd]				
NW, Wellfleet	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
•	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Marconi Beach,	[0] 0			[0] 0 (0)			[0] 0 (0)			(0) 0 (0)			(0) 0 (0)			[0] 0				NDC
Wellfleet	(0)			_ ` '			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
Marconi Station, Wellfleet	[0] 0			[0] 0			(0) 0 (0)			2 (7)	IN (INI)	G	(0) 0 (0)			[0] 0				NPS
Minimoy Island,	(0) [nd]			(0) [nd]			[0] 0 (0) [nd] 0			3 (7) [nd] 0	(IN)	G	[0] 0 (0) [nd] 0			(0) [nd]				INPS
Chatham	0 (0)			22	Α	0	(0)			(0)			(0)			0 (0)				USFWS
Mission Bell,	[0] 0			[0] 0			. ,			, ,	[E] A		. ,			[0] 0				
Provincetown	(0)			(0)			[0] 0 (0)			[1] 0 (7)	(AI)	Ε	[0] 0 (0)			(0)				NPS
Morris I. Dike -				, ,							, ,		,							
Hardings Beach	0															0				
Point, Chatham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Morris I. NW, Chatham	nd (nd)			nd (nd)			nd (nd)			nd (nd)			24 (24)			nd (nd)				
	` '						nd (nd)			na (na)			nd (nd)							
Nauset Light Beach, Eastham	[0] 0			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				NPS
Nauset Spit	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				INFS
(Heights), Orleans,	[0] 0			[0] 0												[0] 0				
Chatham	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Orleans
	[0] 0			[0] 0												[0] 0				
New Island, Orleans	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	<u> </u>			Orleans
Newcomb Hollow,	[0] 0			[0] 0												[0] 0				
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	1			NPS
North Monomoy Is.,	nd			nd												nd				
Chatham	(nd)			(nd)			nd (nd)			nd (nd)			nd (nd)			(nd)				
North (Nauset)	[0] 0			[0] 0						1		Ρ,				[0] 0				
Beach, Chatham	(0)			(0)			[0] 0 (0)			90	AE	G	[0] 0 (0)			(0)	<u> </u>			Chatham
North Beach Island,	[0] 0			[0] 0						1						[0] 0				
Chatham	(0)			(0)		]	[0] 0 (0)			[0] 0 (0)	]		[0] 0 (0)			(0)				Chatham

	Ros	eate T	ern	Com	mon Te	ern	Arctio	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	Р	pairs	M	P	pairs	M	Р	Notes	Source <sup>c</sup>
	[0] 0			[0] 0			[0] 0 (0)			45 (50)	Α (Δ.)	_	[0] 0 (0)			[0] 0				
North Spit, Orleans	(0)			(0)			[0] 0 (0)			45 (50)	(AI)	F	[0] 0 (0)			(0)				Orleans
Pleasant Street	0			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
Beach, Chatham	(nd) [0] 0			[0] 0			0 (nd)			U (Ha)			0 (nd)			[0] 0				IVIAS
Quitnesset, Chatham	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Race Point Beach,				[0] 0							[1] 1					[0] 0				
Provincetown	[0] 0			(0)			[0] 0 (0)			[3] 8 (8)	(1)	0	[0] 0 (0)			(0)				NPS
											[IN]									
Race Point North,	[0] 0			[0] 0						[20] 40	IN					[0] 0				
Provincetown	(0)			(0)			[0] 0 (0)			(30)	(EI)	Р	[0] 0 (0)			(0)				NPS
Race Point South,	[0] 0			[0] 0							[A] A					[0] 0				
Provincetown	(0)			(0)			[0] 0 (0)			[1] 1 (6)	(AI)	0	[0] 0			(0)				NPS
Ridgevale Beach,	[0] 0			[0] 0			[0] 0 (0)			[1] 1 (0)	[A]		[0] 0			[0] 0				
Chatham	(0)			(0)			[0] 0 (0)			[8] 0	A		[0] 0 (0)			(0)				MAS
					[A]					[240]	[A]									
South Beach - Middle	[0] 0			[36] 8	A					620	A					[0] 0				
Island, Chatham	(0)			(24)	(A)	G	[0] 0 (0)			(400)	(A)	G	[0] 0 (0)			(0)				MAS
South Beach	[0] 0			[0] 0							Α					[0] 0				
(Nauset), Orleans	(0)			(0)			[0] 0 (0)			20 (35)	(A)	F	[0] 0 (0)			(0)				Orleans
South Beach (North	[0] 0			[0] 0												[0] 0				
of Break) , Chatham	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
South Beach (South	[nd] nd			[nd] nd			[nd] nd			[nd] nd			[nd] nd			[nd] nd				
of Break) , Chatham	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				MAS
	(112)			(113.7			(112)			(112)			(115)			(114)			# ROST A- vs. B-	
																			period pairs,	
																			determined by	
																			chick ages, is	
																			min. estimate: only small	
																			portion of	
																			habitat	
																			surveyed. COTE	
																			& LAGU not	
																			censused. COTE	
																			abundance	
Caralla Managara	2*															l			similar to 2019;	
South Monomoy Island, Chatham	3* (1*)	N (N)		nd (nd)*		F	[0] 0 (0)			39	IN	P	[0] 0 (0)			nd (nd)*			large # of LAGU nested.	USFWS
		(11)				r	[0] 0 (0)			39	HN	P	[0] 0 (0)						nesteu.	USFVVS
South Sunken Meadow, Eastham	[0] 0			[0] 0			[0] (0)			[0] 0 (0)			[0] 0 (0)			[0] 0				MAS
ivieadow, Eastham	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				IVIAS

	Ros	eate T	ern	Com	mon Te	ern	Arctio	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
	[0] 0			[0] 0			[0] 0 (0)			4 (2.4)	Α (Δ)		[0] 0 (0)			[0] 0				
Tern Island, Chatham	(0)			(0)			[0] 0 (0)			4 (24)	(A)	0	[0] 0 (0)			(0)				MAS
White Crest Beach,	[0] 0			[0] 0												[0] 0				
Wellfleet	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NPS
Wood End/Long	[0] 0			[0] 0												[0] 0				
Point, Provincetown	(0)			(0)			[0] 0 (0)			0 (1)	(N)	0	[0] 0 (0)			(0)				NPS
BUZZARDS BAY																				
	[nd]															[nd]				
Accept Mostport	(nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			0 (nd)				MAS
Acoaxet, Westport	(nd)			(na)			(na)			(nu)			(nu)			(na)				IVIAS
																			Only 100	
																			incubating LETE	
																			seen at a time	
Barney's Joy/Little	[0] 0			[0] 0												[0] 0			due to heavy	
Beach, Dartmouth	(0)			(0)			[0] 0 (0)			200 (15)	A (I)	Р	[0] 0 (0)			(0)			depredation.	MAS
Day Bailet Comment	[nd]			[nd]			for all to all			for all to all			for all and			[nd]				
Bay Point, Swansea	nd (nd)			nd (nd)			[nd] nd (nd)			[nd] nd (nd)			[nd] nd (nd)			nd (nd)				
	(IIu)			(IIU)			(IIu)			(IIU)			(IIu)			(IIU)			COTE & ROST	
																			not censused,	
																			but colony	
																			appeared to be	
																			similar in size to	
			1.00			0.63													that of previous	
Bird Island, Marion	nd		fl/n	nd		fl/n	0			0			0			0			year.	DFW
Blankenship Cove,	0															0				
Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Bourne Cove,	0															0				
Wareham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Cadaul Maraham	0			0 (1)			0 (1)			0 ( 4)			0 (1)			0				NAAC
Cedar I., Wareham Cockeast Pond	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
(Elephant Rock),	[0] 0			[0] 0												[0] 0				
Westport	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TNCRI
	0			(-)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			0				
Cromeset, Wareham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
				,							[A]									
Demarest Lloyd,	[0] 0			[0] 0						[9] 12	Α					[0] 0				
Dartmouth	(0)			(0)			[0] 0 (0)			(20)	(A)	Р	[0] 0 (0)			(0)				DCR
East Beach, Westport	0															0				
,	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[0]			[0] 24			[0] md			[0] nd			[O] nd			[0]				
Fish Island, Fairhaven	nd (nd)			[0] nd (nd)			[0] nd (nd)			[0] nd (nd)			[0] nd (nd)			nd (nd)			Single visit, 5/28.	DFW
risii isiailu, raiiliaven	(IIII)			(nu)			(nu)			(nu)	l	l	(IIu)			(na)			Single visit, 5/28.	DEM

	Ros	eate T	ern	Com	mon Te	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	M	P	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
	[nd]															[nd]				
Fishing Rock,	0			[nd] 3	١		[nd] 0			[nd] 0			[nd] 0			0			Circle della C/47	A446
Westport	(nd)			(nd)	N		(nd)			(nd)			(nd)			(nd)			Single visit, 6/17.	MAS
Gooseberry Island,	[0] 0			[0] 0												[0] 0				
Westport	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				DCR
Gravel I., Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Graveri., iviarion	nd			nd			o (na)			o (na)			O (Hu)			nd				IVIAS
Haskell I., Marion	(nd)			(nd)			nd (nd)			nd (nd)			nd (nd)			(nd)				
,	( - /			( - /			- ( - /			- ( - )	[A]		. ( - /			( - /				
Horseneck Beach,	[0] 0			[0] 0						[12] 20	Α					[0] 0				
Westport	(0)			(0)			[0] 0 (0)			(25)	(A)	Р	[0] 0 (0)			(0)				DCR
	[nd]			[nd]												[nd]				
Jug Rock, Westport	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Little (Deels) I	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Little (Rock) I., Marion	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
				0 (IIu)			o (na)			o (na)			o (nu)			` ′				IVIAS
Little Harbor Beach,	0			0 (1)			0 ( - 1)			0 ( - 1)			0 ( - 1)			0				A446
Wareham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Long Beach Point, Wareham	0						-			- / N			a ( 1)			0				
Waterialii	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Long Island,	[0] nd			[0] nd			[0] nd			[0] nd			[0] nd			[0] nd				
Fairhaven	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				DFW
Meadow Island,	0			(114.7)			(,			()			(,			0				
Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
	[0] 0			[0] 0												[0] 0				
Nonquitt, Dartmouth	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Pine Island (Angelica	[0]															[0]				
Point and Strawberry	nd			[0] nd			[0] 0			[0] nd			[0] nd			nd				
Point), Mattapoisett	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				DFW
Planting Island,	0															0				
Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Planting Island Cove,	0															0				
Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
																			COTE & ROST	
																			not censused, but colony	
																			appeared to be	
																1			similar in size to	
			1.03			0.94										1			that of previous	
Ram Is., Mattapoisett	nd		fl/n	nd		fl/n	0			0			0			0			year.	DFW
Richmond Pond,	[0] 0			[0] 0												[0] 0				
Westport	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TNCRI

	Ros	eate T	ern	Comi	mon Te	ern	Arctic	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ıll		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source
Round Hill Beach,																				
Dartmouth	0			0			0			0			0			0				MAS
Salters Pond,	[0] 0			[0] 0												[0] 0				
Dartmouth	(0)			(0)			[0] 0 (0)			1	Α	0	[0] 0 (0)			(0)				MAS
	[0]						fa1 1						f-0.1			[0]				
South Shore	nd (nd)			[0] nd			[0] nd			[0] nd			[0] nd			nd (m d)			Cinala visit 5/20	DEW
Marshes, Fairhaven	(nd) [nd]			(nd)			(nd)			(nd)			(nd)			(nd) [nd]			Single visit, 5/26.	DFW
Speaking Rock,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Westport	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				MAS
Stewart'sIsland,	0			(115.7			()			()			(1127)			0				
Marion	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Swift's Beach,	0															0				
Wareham	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Timmy's Rock,	[0] 0															[0] 0				
Dartmouth	(0)			33	N		[0] 0 (0)			0	N	0	[0] 0 (0)			(0)				MAS
Marrilla Davil	[0]			[0]l			[0]			[0]			[0]			[0]				
Ward's Rock, Fairhaven	nd (nd)			[0] nd (nd)			[0] nd (nd)			[0] nd (nd)			[0] nd (nd)			nd (nd)			Single visit, 5/28.	DFW
West Island,	[0] 0			[0] 0			(IIu)			(IIU)			(IIu)			[0] 0			Single visit, 5/26.	DEVV
Fairhaven	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				LCES
Westport Town	[0] 0			[0] 0						. , ,			., .,			[0] 0				
Beach, Westport	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Winsegansett	[0] 0			0 [0]						. , ,			., .,			[0] 0				
Heights, Fairhaven	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				LCES
ELIZABETH ISLANDS	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				2020
	[md]			0.[6a]			[24] 0						[nd] 0			[nd]				
Barges Beach, Cuttyhunk, Gosnold	[nd] 0 (0)			[nd] 0 (0)			[nd] 0 (0)			[nd] 19	AI	0	[nd] 0 (0)			[nd] 0 (0)				MAS
•	. ,			(0)			(0)			[Hd] 13			(0)			` '				IVIAS
Churches Beach, Cuttyhunk, Gosnold	0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)				MAS
	` ,						O (Hu)			O (Hu)			O (Hu)			<u> </u>				IVIAS
Copicut Neck, Cuttyhunk, Gosnold	nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)			nd (nd)				MAS
Cuttynunk, Gosnoid	[nd]			[nd]			na (na)			na (na)			na (na)			[nd]			Single visit, 6/2,	IVIAS
Nashawena Island-	0*			0*			[nd] 0*			[nd] 0*			[nd] 0*			0*			used for A-	
Canapitsit, Gosnold	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)			count.	DFW
,	[nd]			[nd]			` ,			` /			,			[nd]			Single visit, 6/2,	
Nashawena Island-	0*			0*			[nd] 0*			[nd] 0*			[nd] 0*			0*			used for A-	1
Quicks Hole, Gosnold	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)			count.	DFW
	[nd]			[nd]												[nd]			Single visit, 6/2,	1
Pasque Island-	0*			0*			[nd] 0*			[nd] 0*			[nd] 0*			0*			used for A-	5514
Cobbly, Gosnold	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)	1		count.	DFW
Pasque Island-Quicks	[nd] 0*			[nd] 0*			[nd] 0*			[nd] 0*			[nd] 0*			[nd] 0*			Single visit, 6/2, used for A-	1
Hole, Gosnold	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)			count.	DFW

	Ros	eate T	ern	Com	mon To	ern	Arctio	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ıll		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
Pasque Island-	[nd]			[nd]												[nd]			Single visit, 6/2,	
Robinson's Hole,	0*			0*			[nd] 0*			[nd] 0*			[nd] 0*			0*			used for A-	25144
Gosnold	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)			count. One mixed Arctic	DFW
																			x Common Tern	
																			pair laid one	
																			nest with two	
																			eggs. One egg	
Penikese Island,	25	N	0.82			0.82													hatched & the	
Gosnold	(1)	(N)	fl/n	1500	N	fl/n	0.5*	N	G*	0 (0)			0 (0)			0 (0)			chick fledged.	DFW
West Pond,	nd			nd												nd				
Cuttyhunk, Gosnold	(nd)			(nd)			nd (nd)			nd (nd)			nd (nd)			(nd)				
MARTHA'S VINEYARD																				
Arruda's Point / The	[0] 0			[0] 0												[0] 0				
Jetties , Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
Beach Road	0															0				
Causeway, Tisbury	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Bend in the Road	0															0				
Beach, Edgartown	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Big Gravel Island,	0															0				
Oak Bluffs	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Black Point Pond,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Chilmark	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
Calable Dand	[0]			[0]			[0]			[0] nd			[0] 4			[0]				
Caleb's Pond, Edgartown	nd (nd)			[0] nd (nd)			[0] nd (nd)			(nd)			[0] nd (nd)			nd (nd)				BW
Lagartown	[nd]			(na)			(na)			(IIU)			(IIIa)			[nd]				5,,
Cape Higgon,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Chilmark	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
Cape Pogue Elbow /																				
The Narrows, Edgartown	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				TTOR
-							[0] 0 (0)			[0] 0 (0)			[0] 0 (0)							TION
Cedar Tree Neck, West Tisbury	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)				BW
Chilmark Pond,	[0] 0			[0] 0			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			[0] 0				DVV
Chilmark	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				BW
Coskata-East Beach,	[0] 0			[0] 0			, ,			, ,		1	, ,			[0] 0	1			
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
	[0] 0			[0] 0												[0] 0				
Cow Bay, Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Consistence Transfer	[nd]			[4]] 0			[1] 0			[1] 0			[,1] 0			[nd]				
Cracktuxet Trust Beach, Edgartown	0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			[nd] 0 (nd)			0 (nd)				BW
beacii, Eugai towii	(IIu)			(IIu)	l		(IIu)			(IIU)			(IIu)			(IIII)	<u> </u>			טעט

	Ros	eate T	ern	Com	mon Te	ern	Arctic	Tern		Leas	st Tern		Black S	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	M	P	pairs	М	P	pairs	М	Р	Notes	Sourcec
Dogfish Bar,	[0] 0			[0] 0												[0] 0				
Aquinnah	(0)			(0)			[0] 0 (0)			41	1	Р	[0] 0 (0)			(0)				BW
Dougs Cove Preserve,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Oak Bluffs	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				MVLBC
East Tashmoo,	0			o ( 1)			0 ( 1)			0 ( 1)			0 ( 1)			0				
Tisbury	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Eastville Beach, Oak	[0] 0			[0] 0			[ [ ] [ ] ( ] ( )			_			5-3 - (a)			[0] 0				
Bluffs	(0)			(0)			[0] 0 (0)			5	Α	0	[0] 0 (0)			(0)				MAS
Edgartown Great Pond (Job's Neck),	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			314	Α	0	[0] 0 (0)			(0)				BW
Edgartown Great	(0)			(0)			[0] 0 (0)			311	- / (		[0] 0 (0)			(0)				J.,
Pond Beach,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MVLBC
	[0] 0			[0] 0												[0] 0				
Edys Island, Chilmark	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Harthaven, Oak	0			o ( 1)			0 ( 1)			0 ( 1)			0 ( 1)			0				
Bluffs	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Haystack Island,	[0] 0			[15]	[A]	_										[0] 0				
Edgartown	(0)			56	Α	G	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Lamberts Cove, West	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Tisbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
Leland / East Beach,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
Lighthouse Beach,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				BW
																			4 new BLSK pairs	
Little Beach / Eel Pd.,	[0] 0											Ρ,		N	1.53	[0] 0			nested in B-	
Edgartown	(0)			339	IN	0, E	[0] 0 (0)			625	Α	F, E	11 (4*)	(N)	fl/pr	(0)			period	BW
Little Gravel Island,	0															0				
Oak Bluffs	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Little Neck,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
Lobsterville Beach,	0															0				
Aquinnah	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Long Point, West	[0] 0			[0] 0			[0] 0 (0)			[0] 0 (0)			[0] (0)			[0] 0				TTOD
Tisbury	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
Lucy Vincent Beach,	[0] 0			[0] 0			[0] 0 (0)			[0] 0 (0)			[0] ( (0)			[0] 0				DIA
Chilmark	(0)			(0)			[0] 0 (0)			[0] 0 (0)	[4]		[0] 0 (0)			(0)				BW
Mink Meadows,	[0] 0			[0] 0						[7] 7	[A] A					[0] 0				
Tisbury	(0)			(0)			[0] 0 (0)			(15)	(A)	F	[0] 0 (0)			(0)				MAS

	Ros	eate T	ern	Comi	mon Te	ern	Arctio	Tern		Lea	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	P <sup>b</sup>	pairs	М	P	pairs	М	P	No. pairs	М	P	pairs	М	P	pairs	М	Р	Notes	Source <sup>c</sup>
	[0]															[0]				
Nomans Land Island	nd			[0] nd			[0] nd			[0] nd			[0] nd			nd				
NWR, Chilmark	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				USFWS
Norton Point Beach,	[0] 0			[0] 0								1				[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			1	ı	fl/n	[0] 0 (0)			(0)				TTOR
Oyster Pond,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				BW
Paqua Pond,	[0] 0			[0] 0												[0] 0				
Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				BW
Paul's Point, West	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Tisbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
	[0]															[0]				
Pease's Pond,	nd			[0] nd			[0] nd			[0] nd			[0] nd			nd				
Edgartown	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
Philbin Beach,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Aquinnah	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
	[0] 0				[1]						[A]					[0] 0				
Quansoo, Chilmark	(0)			[1] 1	N	0	[0] 0 (0)			[120] 15	A	0	[0] 0 (0)			(0)				MAS
	[0] 0			[-] -			[-] - (-)			[===]==			[-]-(-)			[0] 0				11111
Sarson Is., Edgartown	(0)			5	Ε	G	[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
	[nd]				_		[-] - (-)			[0] 0 (0)			[-] - (-)			[nd]				
Seven Gates, West	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Tisbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
South Beach,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Edgartown	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
	[nd]			` '			, ,			, ,			Ì			[nd]				
Spring Point,	0			[nd] 0			[nd] 0			[nd] 0			[nd] 0			0				
Chilmark	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW
Squibnocket																				
Beach/Long Beach,	[0] 0			[0] 0												[0] 0				
Chilmark	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				BW
Stonewall Beach,	[0] 0			[0] 0												[0] 0				
Chilmark	(0)			(0)			[0] 0 (0)			14 (4)	A (I)	Ε	[0] 0 (0)			(0)				BW
Sylvia State Beach,	[0] 0			[0] 0			[-] - (-)			. ,	. ,		2-3-(-)			[0] 0				
Oak Bluffs	(0)			(0)			(0) 0 (0)			6	Α	0	(0) 0 (0)			(0)				MAS
	` '			(0)			[0] 0 (0)			0	A	U	[0] 0 (0)							IVIAS
Sylvia State Beach,	0									l						0				
Edgartown	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Tisbury Great Pond	[0] 0			[0] 0												[0] 0				
Beach, West Tisbury	(0)			(0)			[0] 0 (0)			[0] 0 (0)	<u> </u>		[0] 0 (0)			(0)	L			MVLBC
	[0] 0			[0] 0												[0] 0				
Wasque, Edgartown	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)	<u> </u>			TTOR
Watcha Pond, West	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Tisbury	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				BW

No.         No.         No.         No.         No.         Pb         pairs         M           West Tashmoo,         [0] 0	No														
	_	٠.						No.			No.				
West Tashmoo.   [0] 0         [0] 0	P pai	rs	М	P N	lo. pairs	M	P	pairs	M	P	pairs	М	Р	Notes	Source <sup>c</sup>
											[0] 0				
Tisbury (0) (0)	[0] 0	(0)			17	I	G	[0] 0 (0)			(0)				BW
Yorke-Allen Point, 0											0				
Edgartown (nd) 0 (nd)	0 (n	d)			0 (nd)			0 (nd)			(nd)				MAS
NANTUCKET															
Capaum Pond, [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		[(	[0] 0 (0)			[0] 0 (0)			(0)				NCF
0 [0]						[N]	0,				[0] 0				
Coatue, Nantucket (0) (0)	[0] 0	(0)			[11] 7	AN	G	[0] 0 (0)			(0)				NCF
Coskata-West Beach, [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		10	(0) 0 (0)			[0] 0 (0)			(0)				TTOR
East Hallowell St., nd nd	. ,	,			, ,			., (,			nd				
Nantucket (nd) (nd)	nd (r	nd)		r	nd (nd)			nd (nd)			(nd)				
[0] 0	110 (1	ιω,			ia (iia)			na (na)			[0] 0				
Eel Point, Nantucket (0) 1 N	0 [0] 0	(0)		[(	(0) 0 (0)			[0] 0 (0)			(0)				NCF
Great Point, [0] 0		` '									[0] 0				
Nantucket 0 (0) (0)	[0] 0	(0)		[(	[0] 0 (0)			[0] 0 (0)			(0)				TTOR
Hummock and West															
Hummock Ponds, [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		[(	(0) 0 (0)			[0] 0 (0)			(0)				NCF
Little Neck, [0] 0 [0] 0	[0]	0			[0] 0			[0] 0			[0] 0				
Nantucket (nd) (nd)	(no	I)			(nd)			(nd)			(nd)				NCF
Long Pond, [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		[(	[0] 0 (0)			[0] 0 (0)			(0)				NCF
Low Beach ,															
Nantucket 0 0	0				0			0			0				Nantucket
Monomoy Creeks, [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		[(	[0] 0 (0)			[0] 0 (0)			(0)				NCF
														At least 500	
														COTE nests	
Muskeget Island, 0 A 800* A	[nd]					Α		[nd] 0			[nd]			counted during	
Nantucket (40) (N) 0 (800*) (A)	0 (0	)		5	50 (175)	(AN)	0, E	(0)			0 (0)			B-period.	MAS
Muskeget														Site did not exist	
Shoals/Minimusk n/a* n/a*	n/a	*			n/a*			n/a*			n/a*			in 2020	MAS
Nantucket NWR															
(Great Point), [0] 0 [0] 0	[0] 0	(0)		r,	(01.0.(0)			[0] (0)			[0] 0				LICENAC
Nantucket (0) (0) Polpis Harbor	[0] 0	(0)		)]	[0] 0 (0)			[0] 0 (0)			(0)				USFWS
(Medouie Creek and															
Pocomo Meadows), [0] 0 [0] 0											[0] 0				
Nantucket (0) (0)	[0] 0	(0)		ſ	[0] 0 (0)			[0] 0 (0)			(0)				NCF
Quaise Point, [0] 0 [0] 0		` _			- ` '			- , , ,			[0] 0				
Nantucket (0) (0)	[0] 0	(0)		ſſ	[0] 0 (0)			[0] 0 (0)			(0)				Nantucket

	Ros	eate T	ern	Com	mon To	ern	Arctic	Tern		Leas	st Tern		Black	Skimm	er	Laugh	ing G	ull		
	No.			No.			No.						No.			No.				
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	М	P	pairs	М	P	pairs	М	P	Notes	Source <sup>c</sup>
Quidnet/Sesachacha																				
Pond/Greenhills,	[0] 0			[0] 0								F,				[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			0 (10)	A (I)	G	[0] 0 (0)			(0)				MAS
Sheep Pond,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NCF
Siasconset,	[nd]			[nd]												[nd]				
Nantucket	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Ivanitucket	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Smith Point / Esther	[0] 0			[0] 0												[0] 0				
Is., Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Nantucket
Smith's Point,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
South Pastures																				
(Madequecham																				
Valley to Tom	[0] 0			[0] 0												[0] 0				
Nevers), Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NCF
Squam Pond,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Nantucket	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				NCF
	[0] 0			[0] 0						[0] 0						[0] 0				
The Galls, Nantucket	(0)			(0)			[0] 0 (0)			(46)	(1)	0	[0] 0 (0)			(0)				TTOR
The Glades,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				TTOR
The Haulover ,	[0] 0			[0] 0			[0] 0			[0] 0			[0] 0			[0] 0				
Nantucket	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				NCF
Tom Nevers ,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				Nantucket
Tuckernuck Is	[nd]			[nd]												[nd]				
Bigelow's Point,	nd			nd			[nd] nd			[nd] nd			[nd] nd			nd				
Nantucket	(nd)			(nd)			(nd)			(nd)			(nd)			(nd)				
Tuckernuck Is																				
Whale Point,	[0] 0				N						N	_				[0] 0				
Nantucket	(0)			1 (0)	(N)		[0] 0 (0)			232 (19)	(N)	Р	[0] 0 (0)			(0)				TLT
UMass Field Station,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				NCF
Wanoma/Tom	[0] 0			[0] 0												[0] 0				
Nevers, Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Washing Pond,	0						,			, ,						0				
Nantucket	(nd)			0 (nd)			0 (nd)			0 (nd)			0 (nd)			(nd)				MAS
Wauwinet,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
Western Ave,	[0] 0			[0] 0												[0] 0				
Nantucket	(0)			(0)			[0] 0 (0)			[0] 0 (0)			[0] 0 (0)			(0)				MAS
TOTAL, 2020	nd			nd			0.5			3747			11			nd				
TOTAL, 2019	2066			20291			1.5			4289			12			3659				

### INVENTORY OF TERNS, LAUGHING GULLS, AND BLACK SKIMMERS NESTING IN MASSACHUSETTS IN 2020

	Ros	eate T	ern	Com	mon Te	ern	Arctic	Tern		Leas	st Tern		Black S	Skimm	er	Laugh	ing G	ull		
	No.	o. No.			No.						No.			No.						
Site	pairs	Mª	Pb	pairs	М	P	pairs	М	Р	No. pairs	M	Р	pairs	M	P	pairs	М	Р	Notes	Source <sup>c</sup>
% change, 2019 -																				
2020	nd			nd			-66.7			-12.6			-8.3			nd				

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

<sup>&</sup>lt;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>&</sup>lt;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; USDA-APHIS=U.S. Dept. of Agriculture-Animal & Plant Health Inspection Service; USFWS=U.S. Fish & Wildlife Service.