Wetmore, Doug

CAHA #1757

From: Michelle_Baker@nps.gov
Sent: Tuesday, November 17, 2009 5:43 AM
To: Wetmore, Doug
Subject: RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.
Attachments: 2000-2007 Nests.xls; 1986-1999 Nests.xls; Copy of TurtleNests08 GOOD.xls

Hey Doug,

I am sorry for the delay in response. Our internet at the office has been out for a couple of days. The datbase is actually an excel form of our GIS database. I can send them to you, but they are cumbersome to go through if you don't know what you're looking at. We are trying to make them more standardized, but I haven't had the time to meet up with the NCWRC biologist so that we can get that done.

Anyway, here you go. Call me if you need some help explaining what you are looking at.

Michelle

(See attached file: 2000-2007 Nests.xls)(See attached file: 1986-1999 Nests.xls)(See attached file: Copy of TurtleNests08 GOOD.xls)

"Wetmore, Doug" <dwetmore@louisberger.com>
11/12/2009 01:47 PM

To <Michelle_Baker@nps.gov>
cc
Subject RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hi Michelle.

When you refer to the "database", is that a spreadsheet? If so, could you send it to me please? I have a very old copy, but nothing since 2005.

Thanks.

Doug Wetmore
Environmental Planner

Direct 303-985-6611
Mobile 303-905-6128
Fax 303-984-4942

The Louis Berger Group, Inc. | 12596 West Bayaud Ave | Suite 201 | Lakewood, CO 80228 | www.louisberger.com

-----Original Message-----
From: Michelle_Baker@nps.gov [mailto:Michelle_Baker@nps.gov]
Sent: Wednesday, November 11, 2009 1:34 PM
To: Wetmore, Doug
Cc: Britta_Muiznieks@nps.gov; Fox, Lori; Sandra_Hamilton@nps.gov
Subject: RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hey Doug,

I have confirmed the information:

Between 2000 and 2009 the average number of loggerhead nests at the Seashore was 79, with the lowest number of nests occurring in 2004 and the highest number of nests occurring in 2008... CONFIRMED

From 2000 to 2009, there was an annual average of four green turtle nests at the Seashore, with a peak of nine nests in 2005...CONFIRMED

The numbers in the 2008 Annual Report are more accurate than the numbers in the old annual reports since we have done a review of our turtle database.
All the numbers in the EIS are coming from the current database, not the old annual reports. Therefore it would be more accurate to cite the database, the 2008 report, and 2009 raw data. Is that even possible though?

Michelle

"Wetmore, Doug"

<dwetmore@louisbe

rger.com>

To <Britta_Muiznieks@nps.gov>,

11/11/2009 01:34 PM <Michelle_Baker@nps.gov>

cc "Fox, Lori" <lfox@louisberger.com>, <Sandra_Hamilton@nps.gov>

Subject RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hi Michelle.

Could you confirm these statements please?

Also, maybe folks could weigh in on Britta's question about citing all of the previous annual reports.

Thanks.

-----Original Message-----
From: Britta_Muiznieks@nps.gov [mailto:Britta_Muiznieks@nps.gov]
Sent: Tuesday, November 10, 2009 12:00 PM
To: Michelle_Baker@nps.gov
Cc: Wetmore, Doug
Subject: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Between 2000 and 2009 the average number of loggerhead nests at the Seashore was 79, with the lowest number of nests occurring in 2004 and the highest number of nests occurring in 2008

(figure 13) (NPS 2006e; NPS 2008a; NPS 2009c; Baker 2009). While only 40 loggerhead nests were laid at Cape Hatteras in 2004, it was a poor nesting year for the entire southeast Atlantic Coast (Lyons 2005a).

Do we still want to cite all the annual reports or is the correct info all contained in last year's annual report?

From 2000 to 2009, there was an annual average of four green turtle nests at the Seashore, with a peak of nine nests in 2005 (NPS 2006e, NPS 2008a, NPS 2009c; Baker 2009).

Same question as above, do we still need to cite all the annual reports?

Britta Muiznieks
Wildlife Biologist
Cape Hatteras National Seashore

252-995-3740-Office
252-475-8348-Cell
252-995-6998-FAX

Wetmore, Doug CAHA #1758

From: Michelle_Baker@nps.gov
Sent: Wednesday, November 11, 2009 1:34 PM
To: Wetmore, Doug
Cc: Britta_Muiznieks@nps.gov; Fox, Lori; Sandra_Hamilton@nps.gov
Subject: RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hey Doug,

I have confirmed the information:

Between 2000 and 2009 the average number of loggerhead nests at the Seashore was 79, with the lowest number of nests occurring in 2004 and the highest number of nests occurring in 2008... CONFIRMED

From 2000 to 2009, there was an annual average of four green turtle nests at the Seashore, with a peak of nine nests in 2005...CONFIRMED

The numbers in the 2008 Annual Report are more accurate than the numbers in the old annual reports since we have done a review of our turtle database.
All the numbers in the EIS are coming from the current database, not the old annual reports. Therefore it would be more accurate to cite the database, the 2008 report, and 2009 raw data. Is that even possible though?

Michelle

"Wetmore, Doug" <dwetmore@louisberger.com>

11/11/2009 01:34 PM

To <Britta_Muiznieks@nps.gov>, <Michelle_Baker@nps.gov>

cc "Fox, Lori" <lfox@louisberger.com>, <Sandra_Hamilton@nps.gov>

Subject RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hi Michelle.

Could you confirm these statements please?

Also, maybe folks could weigh in on Britta's question about citing all of the previous annual reports.

Thanks.

-----Original Message-----
From: Britta_Muiznieks@nps.gov [mailto:Britta_Muiznieks@nps.gov]
Sent: Tuesday, November 10, 2009 12:00 PM
To: Michelle_Baker@nps.gov
Cc: Wetmore, Doug
Subject: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Between 2000 and 2009 the average number of loggerhead nests at the Seashore was 79, with the lowest number of nests occurring in 2004 and the highest number of nests occurring in 2008 (figure 13) (NPS 2006e; NPS 2008a; NPS 2009c; Baker 2009). While only 40 loggerhead nests were laid at Cape Hatteras in 2004, it was a poor nesting year for the entire southeast Atlantic Coast (Lyons 2005a).

Do we still want to cite all the annual reports or is the correct info all contained in last year's annual report?

From 2000 to 2009, there was an annual average of four green turtle nests at the Seashore, with a peak of nine nests in 2005 (NPS 2006e, NPS 2008a, NPS 2009c; Baker 2009).

Same question as above, do we still need to cite all the annual reports?

Britta Muiznieks
Wildlife Biologist
Cape Hatteras National Seashore

252-995-3740-Office
252-475-8348-Cell
252-995-6998-FAX

Wetmore, Doug CAHA#1759

From: Michelle_Baker@nps.gov
Sent: Tuesday, November 17, 2009 5:58 AM
To: Wetmore, Doug
Cc: Britta_Muiznieks@nps.gov
Subject: RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

Hey Doug,

For this statement, I would add a statement at the end (something to the effect of...)

The first turtle nests (all turtle species included) typically begin to appear at Cape Hatteras in mid-May, and the last nests are usually deposited in late August (NPS 2001c, 2002c, 2003e, 2006e, 2008a, 2009c; Lyons 2005a; Sayles 2005). Although three nests have been found prior to May 15 (two of which were leatherback nests), and 4 nests have been found after September 1st, it is important to note prior to 2008, nest patrols were conducted only from June 1 - August 31 (2001, 2002, 2003, 2004, 2005), or May 15 - September 15th (2006, 2007). Any nests laid outside of that timeframe were unlikely to be found and protected by Resource Management staff.

Thanks,

Michelle

"Wetmore, Doug" <dwetmore@louisberger.com>
11/12/2009 01:21 PM

To <Michelle_Baker@nps.gov>
cc <Britta_Muiznieks@nps.gov>, "Fox, Lori" <lfox@louisberger.com>, <Sandra_Hamilton@nps.gov>
Subject RE: Please confirm the numbers below and let Doug Wetmore know if anything needs to be changed.

How about this one?

The first turtle nests (all turtle species included) typically begin to appear at Cape Hatteras in mid-May, and the last nests are usually deposited in late August (NPS 2001c, 2002c, 2003e, 2006e, 2008a, 2009c; Lyons 2005a; Sayles 2005).

Doug Wetmore
Environmental Planner

Direct 303-985-6611
Mobile 303-905-6128
Fax 303-984-4942

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From: Michelle_Baker@nps.gov [mailto:Michelle_Baker@nps.gov]
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All the numbers in the EIS are coming from the current database, not the old annual reports. Therefore it would be more accurate to cite the database, the 2008 report, and 2009 raw data. Is that even possible though?

Michelle

CIR	DATE		LAT	LONG	ZONE	LOCATION
973025	4/14/1997		35 19 38.1	75 30 21.2	83	37.4
972279	5/31/1997				117	67.5
973001	6/3/1997				87	34.7
972286	6/13/1997				91	68.9
973002	6/13/1997		35 17 55.8	75 30 46.2	120	Canad. Hol
973003	6/18/1997		35 14 39.7	75.31 31.5	94	.8mi. s CHL
973004	6/18/1997		35 13 6.0	75 31 41.5	98	2.6 s CHLH
973005	6/18/1997		35 13 39.7	75 32 21.5	96	46.1
973007	6/21/1997		35 13 34.1	75 32 12.7	97	45
973006	6/21/1997		35 17 38.7	75 30 48.0	91	canad. hole
973008	6/24/1997		35 23 42.8	75 29 16.1	85	32.8
972293	6/25/1997				117	72
973009	6/28/1997		35 11 37.4	75 43 59.5	106	56.8
973010	6/28/1997		35 23 41.2	75 29 16.1	86	33
973012	6/29/1997		35 15 34.4	75 31 10.1	93	CHLH beac
972294	6/29/1997				116	66.6
973011	6/29/1997		35 13 41.8	75 37 28.2	102	49.5
973013	6/30/1997		35 13 48.6	75 31 39.9	95	44
973014	7/1/1997		35 12 49.4	75 40 37.1	104	Gen.MitchM
973015	7/3/1997		35 13 39.2	75 37 45.2	102	50.3
973016	7/4/1997		35 17 47.4	75 30 46.3	92	40.3
972303	7/6/1997				120	68.3
973017	7/7/1997		35 13 17.2	75 31 51.1	95	44
973018	7/8/1997		35 14 00.6	75 35 49.8	100	48.6
	7/10/1997		35 32	75 24	75	23.1
972316	7/10/1997				118	68.5
972313	7/10/1997				113	62.8
972314	7/10/1997				112	61.9
972315	7/10/1997				112	61.2
973019	7/10/1997		35 13 19.5	75 39 00.5	102	50.5
972317	7/11/1997				113	62.6
973020	7/11/1997		35 12 24.1	75 41 49.8	93	54.5
973021	7/11/1997		35 16 28.2	75 31 02.5	105	41.5
973022	7/13/1997		35 18 59.3	75 30 31.6	90	39.4
973023	7/13/1997		35 13 37.4	75 37 51.6	102	50.4
973024	7/14/1997		35 24 42.6	75 29 07.2	85	32.8
973026	7/14/1997				94	42.5
973027	7/14/1997		35 12 17.2	75 42 07.2	104	54.8
972318	7/15/1997				125	72.5
972319	7/15/1997				112	61.9
973027	7/17/1997		35 14 08.9	75 31 36.7	93	42
972028	7/20/1997		35 33 38.9	75 27 44.6	72	22.1
973029	7/21/1997					54.7
972324	7/22/1997				122	69
972325	7/22/1997				122	68.3
972326	7/22/1997				122	68.1
973030	7/24/1997		35 20 20.1	75 30 10.4	91	37
970352	7/24/1997		35 30	75 29	79	24.7
972451	7/26/1997		35 13 54.3	75 32 58.9	97	45.2
972450	7/26/1997		35 17 26.5	75 30 51.1	91	.5mi s canh
972460	7/27/1997		35 16 7	75 31	93	41

	7/29/1997			115	65.6
	7/29/1997			115	65.6
973033	7/30/1997			87	33.4
973035	8/1/1997	35 16 23.1	75 31 03.1	93	41.8
973034	8/1/1997	35 17 21.3	75 30 52.7	92	40.8
973036	8/9/1997	35 24 19.2	75 29 10.5	84	32
973038	8/10/1997	35 14 31.1	75 31 33.5	94	43
973037	8/10/1997	35 30	75 29	86	33.8
972335	8/10/1997			114	65
973039	8/11/1997	35 14 24.3	75 31 34.5	94	43
972336	8/11/1997			114	65.2
970398	8/11/1997	35 29	75 29	78	25
970403	8/14/1997	35 50	75 34	55	1.2
972338	8/15/1997			119	69
973040	8/17/1997	35 27	75 28	82	25.4
973041	8/21/1997			86	33.2

NEST#	DIST'-H20	DIST'-DUN	DIST'-LHT	SITE-TYPE	ACT-TYPE	SPECIES	TREAT	RELOCAT
H14	45	70	280'	vil	n	cc	r	canhole
O1	33	10		NA	n	CC	UR	
	50	100	1000	VIL	fc	CC		
O2	75	2		NA	n	CC	UR	
le	100	0	~1 mi	NA	fc	CC		
_H	10	8	.8 MI	NA	fc	CC		
ł	0		2.6	ORV	fc	CC		
				ORV	fc	CC		
;	15	70	~1mi.	na	fc	cc		
H1	100	0	~1.5mi	orv	n	cc	r	canhole
O3	80	1		orv	n	cc	r	.1mi s R67
	0	80	1.8mi	orv	fc	cc		
H2	5	200	1.5mi	orv	n	cc	r	R30
H3	19	70	~.1mi	du	n	cc	r	canhole
O4	45	20		na	n	cc	ur	
	14	18	.5mi	na	fc	cc		
H4	60	250	2.5mi	orv	n	cc	r	canhole
H5	11	0	100'	vil	n	cc	r	r30
H6	0	15	20'	vil	n	cc	r	so.lighthou
H7	30	84	3mi	vil	n	cc	r	canhole
O5	60	1		na	n	cc	ur	
	15	500		orv	fc	cc		
H8	70	5	1.5mi	orv	n	cc?	r	so. lighthou
B1	2	130	500'	orv	n	cc	r	R 30 south
O6				na	n	cc	ur	
O7	12	12		na	n	cc	r	same; 12' b
				na	fc	cc		
				na	fc	cc		
H9	60	2	1.5mi	vil	n	cc	r	lighhouse s
	11	18		na	fc	cc		
H10	25	0	100'	vil	n	cc	r	canhole
H11	25	25	.25mi	vil	n	cc	r	canhole
H12	60	75	2mi	orv	n	cc	r	canhole
H13	35	50	150'	vil	n	cc	r	canhole
				orv	fc	cc		
H15	70		1mi.	na	n	cc	r	canhole
	0	45	200'	vil	fc	cc		
O8	10			orv	n	cc	r	?mi n R68
O9	10	40		na	n	cc	r	same; back
H16	30	0	1mi	na	n	cc	r	canhole so
B2	0	75	100'	vil	n	cc	r	r30north
H17	35	85	.25mi	orv	n	cm	r	Canhole sc
	17	19		na	fc	cc		
	16	20		na	fc	cc		
	20	18		na	fc	cc		
H18	50	100	200'	vil	n	cc	r	canahole
B3	34	100	2 mi	orv	n	cc	r	r30 north
H20	100	32	1mi	orv	n	cc	r	R30 north
H19	30	30	1mi	na	n	cc	ur	
				na	fc	cc		

O10	12	12		na	n	cc	ur		
				na	fc	cc			
H21	24	100	2mi	orv	n	cc	r	Canhole	
H22	6	0	.5mi	na	n	cc	r	canhole	
	100	0	2mi	vil	fc	cc			
	20	10	3mi	orv	fc	cc			
	15	5	1mi	?	fc	cc			
	50		1mi	orv	fc	cc			
	24	39		na	fc	cc			
	20	0	1mi	?	fc	cc			
				na	fc	cc			
B4	64	89	305	orv	n	cc	r	r30 north	
	63	40	300	vil	fc	cc			
O11	45	2		na	n	cc	r	.4 mi n of F	
	3	300		orv	fc	cc			
	4	18		orv	fc	cc			

EGG#	PROJ-HAT	DIG-DATE	HATCH-DA	DUG	#EMERGE	% HATCH	COMMENTS
81	9/12/1997	10/7/1997		y	73	90.12346	7unhatched 1live
88	7/30/1997	8/24/1997		y	35	39.8	at dig; 53 undev.eggs
							turtle on beach when r
154	8/12/1997	9/6/1997		y	0	0	at dig; all undev. eggs
							no body pit; popular fis
							spagetti crawl
							no body pit
106	8/23/1997	9/17/1997		y	78	73.6	at dig; 2live;2 dead
144	8/24/1997	9/18/1997		y	139	96.52778	spagetti crawl 1dead 4
							appeared to have beer
120	8/27/1997	9/21/1997		y	113	94.2	at dig: 1 live;1 dead
130	8/28/1997	9/22/1997		y	122	93.8	at dig:3 live; 3dead
106	8/28/1997	9/22/1997		y	1		105unhatched undev
148	8/29/1997	9/23/1997		y	0	0	at dig: all undev. eggs
100	8/30/1997	9/24/1997		y	91	91	wp1
127	9/1/1997	9/26/1997		y	33	26	wp3; nest at high wate
155	9/2/1997	9/27/1997		y	119	76.8	wp4 ; at dig; 2 live in n
166	9/4/1997	9/29/1997		y	0	0	166unhatched undev
88	9/6/1997	10/1/1997		y	84	95.5	wp5; bigger eggs&bod
112	9/8/1997	10/3/1997		y	104	92.85714	1 live 4dead 3 unhatch
122	9/8/1997	10/3/1997		y	104	85.2459	17 unhatched 1dead
144	9/8/1997	10/3/1997		n		0	washed out
127	9/8/1997	10/3/1997		y	120	94.5	wp6; at dig 17 dead; 3
100	9/9/1997	10/4/1997		y	80	80	wp7 20 unhatched
160	9/9/1997	10/4/1997		y	129	80.625	wp8 7dead 17unhatc
144	9/11/1997	10/6/1997		y	138	95.83333	wp9 2dead 3undev 1d
113	9/11/1997	10/6/1997		y	102	90.26549	wp10 3dead 7undev 1
147	9/12/1997	10/7/1997		y	0	0	wp11 all eggs undev
147	9/13/1997	10/8/1997		y	129	87.7551	3dead 14unhatch 1unh
144	9/13/1997	10/8/1997		y	8	5.555556	8unhatched 128 unhat
126	9/15/1997	########		y	9	7.142857	wp12 1live 115 unhatc
121	9/18/1997	########		y	73	60.33058	wp13 4dev in egg 1dea
173	9/19/1997	########		y	0	0	wp14; opposite tracks;
91	9/22/1997	########		y	80	87.91209	1live 10unhatched
127	9/22/1997	########		y	91	71.65354	6 undev. 8 very dev. p
	9/24/1997	########				#DIV/0!	female found on beach
113	9/24/1997	########		y	107	94.69027	2unhatched 4dead

	9/27/1997	########	n		#DIV/0!	washed out
					#DIV/0!	
136	9/28/1997	########	y	85	62.5	wp15nest was water lo
109	9/30/1997	########	y	85	77.98165	wp16 4live 16dead 4ur
					#DIV/0!	
					#DIV/0!	
					#DIV/0!	chamber dug but no eg
					#DIV/0!	
					#DIV/0!	
					#DIV/0!	
					#DIV/0!	
163	########	11/4/1997	y	79	48.46626	turtles not energtic rele
					#DIV/0!	
34	########	11/8/1997	y	10	29.41176	several odd sized and s
					#DIV/0!	
					#DIV/0!	
	2/29/1900	3/25/1900				

0024739

eported by visitor at 9:45am; turtle likely disturbed

hing spot

unhatched/undev.
ı stopped by steep escarpment

r mark; at dig: all eggs undev.
est

y pit; at dig: 3 live; 3 dead;
ed

2alive and vigorous

ıed
lev
dev

ıatched but dev
ched but dev
hed
ad 47 unhatched
lg body pit all undev eggs

art emerged
ı;assisted to H20;tag#ssk310&ssk311;taggedin'94 at Onslow

gged from storm 4dev in egg 1 live 24 dead 22unhatched
hatched

gs laid

ased later at night into rough seas 17undev 33 dev in egg 10dead in nest

shaped eggs 11nondev 4dev unhatch 7live put into surf 2dead

Cape Hatteras National Seashore - 2004 Sea Turtle Nes

	Date	Activit	Species	Nest #	A to B (ft, in)	Treatm Relocat	Original nest site type	Zone
	Hatteras Island							
1	22-May	1	DC	NH1	80	Y	Day use	93
2	22-May	2	CC	NH2	100	N	ORV	99
3	28-May	3	CC	NH3	15	N	Village	93
4	31-May	6	CC	NH4	100	N	Day use	94
5	4-Jun	10	CC	NH5	26.16	N	Village	105
6	13-Jun	15	CC	NH7	100	Y	Village	88
7	16-Jun	18	CC	NH8	37	Y	Day use	90
8	17-Jun	20	CC	NH9	15	Y	Village	93
9	18-Jun	22	CC	NH10	28 mete	N	ORV	90
10	21-Jun	23	CC	NH11	100	N	ORV	99
11	22-Jun	25	CC	NH12	5 meters	N	Village	105
12	22-Jun	26	CC	NH13	4 meters	Y	Day use	93
13	2-Jul	37	CC	NH14	27	Y	Day use	90
14	3-Jul	39	CC	NH16	10 mete	Y	ORV	83
15	6-Jul	40	CC	NH17	56	Y	ORV	84
16	7-Jul	47	CC	NH18	5m	N	Day use	104
17	10-Jul	50	CC	NH21	92	Y	Village	87
18	11-Jul	52	CC	NH22	58	N	Day use	92
19	12-Jul	54	CC	NH23	23	N	ORV	83
20	13-Jul	55	CC	NH24	133.5	N	Day use	94
21	15-Jul	57	CC	NH25	200	N	ORV	95
22	16-Jul	63	CM	NH26	21	N	ORV	101
23	17-Jul	66	CC	NH27	52.3	Y	ORV	95
24	17-Jul	69	CM	NH28	20	N	ORV	85
25	20-Jul	74	CC	NH29	45	Y	Village	106
26	22-Jul	83	CM	NH33	90	N	ORV	83
27	26-Jul	85	CC	NH34	136	N	ORV	86
28	27-Jul	86	CC	NH35	300	Y	ORV	97
29	31-Jul	94	CC	NH36	100	Y	ORV	90
30	31-Jul	93	CC	NH37	100	Y	ORV	107
1	28-Jun	4	CC	NBH3	14	Y	Village	70
2	12-Jul	5	CC	NB1	97	N	Village	53
3	28-Jul	6	CC	NBH4	97	Y	Day Use	73
4	4-Aug	7	CC	NBH5	158	Y	Village	72
5	17-Aug	8	CC	NBH6	37.3	Y	ORV	76
1	16-Jun	2	CC	NO1	84	N	ORV	
2	17-Jun	5	CC	NO3	67.9	N	Day Use	
3	1-Jul	7	CC	NO4	148	N	Day Use	
4	1-Jul	9	CC	NO5	147.4	N	Day Use	
5	13-Jul	14	CC	NO6	71.3	N	Day Use	
6	25-Jul	20	CC	NO8	21.5	N	Day Use	
7	5-Aug	27	CC	NO9	22.9	N	Day Use	
8	5-Aug	28	CC	NO10	16.6	N	Day Use	

43 total

sting season

Relocation site type (if applicabl	Physical location of incubating site	Original site lat	Original site long
Day use	North of Buxton in bird closure 3 miles south of ramp 3	35.27848	75.5167
	1 mile north of ramp 49	35.23428	75.58687
	Buxton Village end of Oramar street	35.26497	75.51858
	0.1 mile north of ramp 43	35.23755	75.52632
	1 mile north of ramp 55	35.21034	75.68723
Village	1 mile north of Avon pier	35.34188	75.50203
Day use	2 miles south of Ramp 38	35.29338	75.51335
Village	0.25 miles north of groins, in Buxton	35.26201	75.51883
	0.50 miles south of Ramp 38	35.31387	75.50892
	1.2 miles north east of Ramp 49	35.23438	75.58447
	3.9 miles south west of Frisco pier in Hatteras village	35.20654	75.69787
Day use	0.1 miles north of southern most groin north of lighthou	35.25795	75.51935
Day use	2.3 miles south of Ramp 38	35.28826	75.5146
ORV	1.5 miles south of Ramp 30	35.41581	75.48531
ORV	2.0 miles south of Ramp 30	35.41174	75.48556
	0.1 miles north east of Hatteras village	35.21623	75.66991
Village	Approximately 1 mile north of Avon pier	35.35802	75.49812
	2 miles south of Ramp 38	35.29191	75.51364
	1.1 miles south of Ramp 30	35.42354	75.48492
	0.6 miles north of Ramp 43	35.2445	75.52499
	0.5 miles south of R44	35.22269	75.52814
	0.8 miles south west of R49	35.22988	75.61869
	< 0.1 miles north of R44	35.23111	75.52702
	2.6 miles south of R30	35.40231	75.48633
	0.2 miles north east of R55	35.20546	75.70055
	0.9 miles south of R30	35.42601	75.48461
	0.1 miles north of R34	35.37943	75.49186
	0.2 miles south of Salt Pond Rd	35.23241	75.55414
	0.95 miles S of R38	35.30732	75.51015
	1.7 miles S of R55	35.19445	75.73019
Village	Just south of Rodanthe Pier	35.58435	75.46127
N/A	0.1 Miles South of Ramp 1	35.84497	75.56274
Day Use	3.1 miles N of Ramp 23	35.57476	75.46104
v illage	2.7 mi North of 23 at high tide line	35.56874	75.4608
ORV	2.7 Miles North of Ramp 27	35.50962	75.47327
Day Use	0.4 mi north of Ramp 67	35.13316	75.90075
	3.8 mi south of Ramp 59	35.16605	75.82279
	0.5 mi north of Ramp 70	35.1269	75.91411
other	0.7 mi south of Ramp 67	35.10237	75.95132
	2.5 mi south of 59	35.16626	75.82258
	6.1 mi N f 67 (1.7 S of 59)	35.22408	75.52746
	0.3 mi north of Ramp 67	35.13528	75.89735
	2 mi north of Ramp 67	35.13499	75.89729

If relocated lat	If relocated long	Close date	Est. HD	Actual HD	Days to hatching	Dig date if HD unknown	Nest Inven Rel T.
35.2785	75.5167	16-Jul	24-Jul	N/A	15-Aug	0	0
		16-Jul	24-Jul	27-Jul	66	15-Aug	118
		22-Jul	30-Jul	Unknown		21-Aug	93
		25-Jul	2-Aug	N/A		24-Aug	108
		29-Jul	6-Aug	Unknown		28-Aug	100
35.34181	75.50188	7-Aug	15-Aug	N/A		6-Sep	87
35.29343	75.51339	10-Aug	18-Aug	9-Aug	54	9-Sep	125
		11-Aug	19-Aug	13-Aug	57	10-Sep	93
		12-Aug	20-Aug	Unknown		11-Sep	131
		15-Aug	23-Aug	N/A		14-Sep	0
		16-Aug	24-Aug	6-Aug	45	15-Sep	120
35.25653	75.51978	16-Aug	24-Aug	16-Aug	55	15-Sep	142
35.28831	75.5143	26-Aug	3-Sep	23-Aug	52	25-Sep	88
35.41747	75.48527	27-Aug	4-Sep	Unknown		26-Sep	86
35.41252	75.48552	30-Aug	7-Sep	N/A		29-Sep	0
		31-Aug	8-Sep	30-Aug	54	30-Sep	115
35.36247	75.49709	3-Sep	11-Sep	N/A		3-Oct	0
		4-Sep	12-Sep	N/A		4-Oct	0
		5-Sep	13-Sep	9-Sep	59	5-Oct	93
		6-Sep	14-Sep	N/A		6-Oct	0
		8-Sep	16-Sep	N/A		8-Oct	0
		9-Sep	17-Sep	N/A		9-Oct	0
		10-Sep	18-Sep	14-Sep	59	10-Oct	92
		10-Sep	18-Sep	Unknown		10-Oct	87
35.20554	75.70061	13-Sep	21-Sep	N/A		13-Oct	80
		15-Sep	23-Sep	N/A		15-Oct	0
		19-Sep	27-Sep			19-Oct	140
35.23246	75.55414	20-Sep	28-Sep	Unknown		20-Oct	73
35.30733	75.51018	24-Sep	2-Oct	N/A		24-Oct	0
35.19453	75.73024	24-Sep	2-Oct	N/A		24-Oct	93
35.53607	75.46743	22-Aug	30-Aug	24-Aug	57	21-Sep	103
N/A	N/A	5-Sep	13-Sep	11-Sep	61	5-Oct	113
35.56454	75.46159	21-Sep	29-Sep			21-Oct	131
35.56873	75.46103	28-Sep	6-Oct	28-Aug		28-Oct	109
35.5097	75.47354	11-Oct	19-Oct			10-Nov	111
35.13622	75.89449	10-Aug	18-Aug	N/A		7-Sep	111
		11-Aug	19-Aug	N/A		10-Sep	0
		25-Aug	2-Sep	N/A		24-Sep	0
		25-Aug	2-Sep	N/A		24-Sep	0
		6-Sep	14-Sep	N/A		6-Oct	0
		18-Sep	26-Sep	29-Sep	66	18-Oct	81
		29-Sep	7-Oct	11-Oct	67	29-Oct	76
		29-Sep	7-Oct	11-Oct	67	29-Oct	100

819 2999

ıtory Data

Avg clutch		ES	UH	DH	LH	Emerge	HS%
							Total # of Eg
0	0	0	0	N/A	Hurricane A	NH1	N/A
118	1	95	23	0	17	78	66.1
93	2	81	12	1	0	80	86.0
108	3	82	26	82	0	0	0.0
100	4	74	26	62	0	12	12.0
87	5	0	87	0	0	0	0.0
125	6	121	4	3	0	118	94.4
93	7	83	10	0	0	83	89.2
131	8	0	131	0	0	0	0.0
		0	0	0	0	0	N/A
120	9	118	2	0	0	118	98.3
142	10	135	7	0	0	135	95.1
88	11	80	8	0	6	74	84.1
86	12	81	5	0	0	81	94.2
		0	0	0	0	0	#DIV/0!
115	13	114	1	0	0	114	99.1
		0	0	0	0	0	N/A
		0	0	0	0	0	N/A
93	14	80	13	0	0	80	86.0
		0	0	0	0	0	N/A
		0	0	0	0	0	N/A
		0	0	0	0	0	N/A
92	15	83	9	1	0	82	89.1
87	16	84	3	0	3	81	93.1
80	17	51	29	0	51	0	0.0
		0	0	0	0	0	N/A
140	18	1	139	0	0	1	0.7
73	19	0	73	0	0	0	0.0
		0	0	0	0	0	N/A
93	20	0	93	0	0	0	0.0
103	21	67	36	0	6	61	59.2
113	22	112	1	0	1	111	98.2
131	23	1	40	0	0	1	0.8
109	24	106	3	7	1	98	89.9
111	25	0	111	0	0	0	0.0
111	26	0	111	0	0	0	0.0
		0	0	0	0	0	0.0
		0	0	0	0	0	0.0
		0	0	0	0	0	0.0
		0	0	0	0	0	0.0
81	27	78	3	0	5	73	90.1
76	28	73	3	0	0	73	96.1
100	29	70	30	5	10	55	55.0

2999 2999/29				1609	

				Partial loss of nest to:	
Complete Loss ggs - 3003	**Nest #**	**Nest Invente**	**# Overwash da**	**Egg loss**	**Hatchling loss**
N/A	N/A	N/A	8/2 - Hurricane	8/3 - Nest lost to Hurricane Alex	
	NH2	1-Aug	0	0	0
	NH3	9-Aug	0	0	0
Hurricane Alex	NH4	9-Aug	0	N/A	N/A
	NH5	16-Aug	0	0	0
Hurricane Alex	NH7	N/A	A lot	N/A	N/A
	NH8	15-Aug	0	0	0
	NH9	20-Aug	0	0	0
	NH10	2-Aug	0	6.2	0
Hurricane Alex	NH11	N/A	2	N/A	N/A
	NH12	26-Aug	0	0	0
	NH13	21-Aug	0	0	0
	NH14	28-Aug	0	6.2	9.1
	NH16	16-Sep	1	6.2	0
Lost to Erosion	NH17	N/A	1	2	0
	NH18	3-Sep	0	6.2	0
Hurricane Alex/Fran	NH21	26-Sep	7	8	0
Undevoloped Eggs	NH22	24-Sep	2	6.1	0
	NH23	12-Sep	0	6.2	0
Hurricane Alex	NH24	N/A	N/A	2	0
"Hurricane" Ivan Lef	NH25	N/A	3	2	0
Hurricane Alex	NH26	N/A	N/A	N/A	N/A
	NH27	23-Sep	1	6.1	0
	NH28	24-Sep	1	6.2	0
	NH29	24-Sep	3		17
Hurricane Alex	NH33	N/A	N/A	N/A	N/A
	NH34				
Standing water	NH35	26-Sep	5	7	0
Hurricane Alex	NH36	N/A	N/A	N/A	N/A
	NH37	26-Sep	lots	6.1	0
	NBH3	28-Aug	0	0	0
	NB1	14-Sep	1	0	0
	NBH4	23-Oct	12	6.1/6.2/7.0	0
	NBH5	1-Sep	2	1.8	9.1
	NBH6	10-Nov		6.2/2.0	0
	NO1	14-Sep	4	6.2	0
Hurricane Alex	NO3	N/A	5	2	N/A
Hurricane Alex	NO4	N/A	2	2	N/A
Hurricane Alex	NO5	N/A	n/a	2	N/A
Hurricane Alex	NO6	N/A	n/a	2	N/A
	NO8 Dig	4-Oct	0	6.2	0
	NO9	15-Oct	0	n/a	n/a
	NO10	15-Oct	1		

0024751

Complete nest loss to:
N/A
N/A
2 - Hurricane Alex
N/A
2.0 - Hurricane Alex
N/A
N/A
Unknown
8.0 - Hurricane Alex
N/A
N/A
N/A
N/A
2
N/A
8.0 - Hurricane Alex/Frances
6.1
N/A
8.0 - Hurricane Alex
2.0 - Hurricane Ivan Leftovers
8.0 - Hurricane Alex
N/A
N/A
17
8.0 - Hurricane Alex
7
8.0 - Hurricane Alex
6.1
0
N/A
7
0
2
0
8.0 - Hurricane Alex
8.0 - Hurricane Alex
8.0 - Hurricane Alex
8.0 - Hurricane Alex
n/a
n/a

Comments:

7/5 - pedestrian tracks through closure
7/6 - pedestrian tracks through closure
Pictures were taken of turtle by people while she was laying eggs at approximately
Vehicle had run over part of primary body nest but not where eggs were located. 7/2-
One egg found broken and left at origional nest site
1 spacer and one underdeveloped egg present in nest, 4 ft plus of sand accumulation
all small eggs
8/3 - Nest lost to Hurricane Alex
8/3 - Nest lost to Hurricane Alex
Nest cavity found 3 ft deep, hatchlings llatheargic and heavy sand atop them
8/3 - Nest lost to Hurricane Alex
Nest found 5 feet deep below the water table. Only 73 out of 134 relocated eggs were recovered from the w
8/3 - Nest lost to Hurricane Alex
Nest cavity had been run over and obscured by ORV tracks
36 of recorved eggs undevoloped, 4 XX% devoloped
Found by a visitor after Hurricane Alex. Eggs had been exposed by high tide and wind. Nest was below higl
Most eggs 91% devoloped.
About 30 - 40% of eggs had a;,pst fully devoloped hatchlings. Eggs were discolored shades of yellow and br
Hurricane Alex
Hurricane Alex
Hurricane Alex
Hurricane Alex
pipped eggs hatchling released from nest on 10/9
2 hatchlings found in filter fence released th enext day
one LH hdid not have fully formed flippers he was unableto move on the sand

0024754

ater table.

ı tide line so it was relocated higher on the beach 8/4/04. 3 eggs were broken open and taken to determ

·own

0024756

nine embryo devolopment. Embryos approx. 45 days old on 8/4/04.

Nest_numbe	Date_	Activity_n	Species	Treatment	Location
NH01	5/18/2008	H02	Cc	Relocated	Cape Point Hook
NH02	5/28/2008	H04	Cc	In Situ	1.2 mi n R34
NH03	6/2/2008	H06	Cc	Relocated	Immediately s R44
NH04	6/2/2008	H07	Cc	Relocated	1.6 mi n R38
NH05	6/4/2008	H09	Cc	Relocated	Salt Pond Road
NH06	6/5/2008	H11	Cc	In Situ	1.0 mi w R45
NH08	6/6/2008	H13	Cc	Relocated	4.3 mi s R49
NO01	6/6/2008	O01	Cc	In Situ	3.7 mi n R67
NO02	6/7/2008	O02	Cc	In Situ	0.1 mi n R72
NH07	6/7/2008	H12	Cc	In Situ	1.2 mi e R49
NH09	6/7/2008	H14	Cc	In Situ	Immediately s R44
NO03	6/9/2008	O03	Cc	In Situ	3.8 mi n R67
NO04	6/9/2008	O04	Cc	In Situ	4.0 mi n R67
NH10	6/9/2008	H15	Cc	In Situ	Immediately e R49
NO05	6/10/2008	O05	Cc	In Situ	3.6 mi n R67
NH11	6/10/2008	H16	Cc	In Situ	2.2 mi s R38
NO06	6/12/2008	O09	Cc	In Situ	2.4 mi n R67
NH14	6/13/2008	H19	Cc	In Situ	0.3 mi s R30
NBH01	6/14/2008	BH01	Cc	In Situ	1.9 mi s R23
NH12	6/14/2008	H20	Cc	Relocated	0.5 mi e SPR
NH13	6/15/2008	H21	Cc	In Situ	1.3 mi n R38
NH15	6/16/2008	H23	Cc	In Situ	0.1 mi s R44
NO07	6/16/2008	O10	Cc	In Situ	1.8 mi n R67
NBH02	6/20/2008	BH03	Cc	In Situ	0.5 mi s R23
NH16	6/21/2008	H25	Cc	In Situ	0.5 mi n R43
NH18	6/21/2008	H27	Cc	In Situ	1.3 mi n R43
NH19	6/21/2008	H29	Cc	In Situ	0.8 mi w R45
NH17	6/21/2008	H26	Cc	In Situ	0.3 mi n R34
NH20	6/22/2008	H31	Cc	Relocated	0.5 mi n R43
NO08	6/23/2008	O13	Cc	In Situ	4.3 mi s R59
NH21	6/23/2008	H33	Cc	In Situ	0.5 mi n R43
NH22	6/23/2008	H34	Cc	In Situ	0.2 mi s R43
NB01	6/23/2008	BI01	Cc	In Situ	0.4 mi s R2
NH24	6/23/2008	H36	Cc	In Situ	70 m s R44
NH23	6/23/2008	H35	Cc	In Situ	0.5 mi e R49
NO09	6/24/2008	O17	Cc	In Situ	0.8 mi n R70
NH25	6/25/2008	H39	Cc	In Situ	1.4 mi n R38
NO10	6/25/2008	O21	Cc	In Situ	2.1 mi n R67
NBH03	6/25/2008	BH06	Cc	In Situ	0.9 mi n R27
NO11	6/25/2008	O22	Cc	In Situ	2.7 mi s R59
NO12	6/26/2008	O26	Cc	In Situ	0.2 mi n R67
NH26	6/26/2008	H45	Cc	In Situ	1.7 mi n R38
NH28	6/27/2008	H47	Cc	In Situ	2.3 mi n R34
NBH04	6/27/2008	BH07	Cm	In Situ	0.4 mi n R30
NH27	6/27/2008	H46	Cc	In Situ	0.5 mi s R55
NO13	6/29/2008	O27	Cc	In Situ	0.8 mi s R70

NH29	6/29/2008	H50	Cc	In Situ	0.5 mi w R49
NO14	6/29/2008	O28	Cc	In Situ	0.2 mi n R67
NO15	7/1/2008	O30	Cc	In Situ	1.4 mi n R67
NH30	7/2/2008	H58	Cc	Relocated	3.2 mi s R38
NO16	7/2/2008	O32	Cc	In Situ	0.3 mi s R68
NH31	7/3/2008	H63	Cc	In Situ	1.0 mi w R45
NH32	7/5/2008	H65	Cc	In Situ	1.2 mi n R43
NH33	7/5/2008	H66	Cc	In Situ	0.4 mi s R55
NH34	7/5/2008	H67	Cc	Relocated	0.2 mi w R45
NH35	7/7/2008	H69	Cc	In Situ	0.4 mi s R44
NH36	7/8/2008	H71	Cc	In Situ	0.8 mi n R38
NBH05	7/8/2008	BH10	Cc	In Situ	3.1 mi s R23
NH37	7/9/2008	H74	Cm	Relocated	0.6 mi se SPR
NH38	7/9/2008	H75	Cc	In Situ	0.8 mi e R49
NBH06	7/9/2008	BH11	Cc	Relocated	2.9 mi n R23
NH39	7/10/2008	H77	Cc	In Situ	0.6 mi e R49
NH40	7/11/2008	H79	Cc	In Situ	1.5 mi s R38
NO17	7/12/2008	O37	Cc	In Situ	0.6 mi n R70
NH41	7/12/2008	H80	Cc	In Situ	0.7 mi n R43
NBH07	7/12/2008	BH12	Cc	Relocated	Bodie Spit
NH42	7/13/2008	H81	Cc	In Situ	1.7 mi n R55
NO18	7/13/2008	O42	Cc	In Situ	1.8 mi n R67
NO19	7/14/2008	O43	Cc	In Situ	0.3 mi s R59
NH43	7/14/2008	H82	Cc	In Situ	0.1 mi n R55
NH45	7/15/2008	H84	Cc	Relocated	1.6 mi s R30
NO20	7/15/2008	O44	Cc	Relocated	0.6 mi n R72
NH44	7/15/2008	H83	Cc	In Situ	0.5 mi s R38
NH46	7/15/2008	H85	Cc	Relocated	0.4 mi s R44
NBH08	7/16/2008	BH14	Cc	In Situ	0.9 mi s R23
NH47	7/16/2008	H86	Cc	In Situ	0.5 mi e R49
NH48	7/17/2008	H88	Cc	In Situ	1.6 mi s R38
NH49	7/17/2008	H89	Cc	In Situ	0.2 mi s R44
NO21	7/17/2008	O45	Cc	In Situ	2.4 mi s R59
NBH09	7/18/2008	BH17	Cc	Relocated	2.2 mi n R23
NH51	7/19/2008	H91	Cc	In Situ	2.1 mi s R38
NH52	7/19/2008	H92	Cc	In Situ	0.4 mi s R44
NH50	7/19/2008	H90	Cc	In Situ	3.8 mi s R38
NH54	7/20/2008	H94	Cc	In Situ	1.0 mi s R30
NH57	7/20/2008	H101	Cc	In Situ	0.7 mi w R45
NH55	7/20/2008	H98	Cc	In Situ	2.4 mi s R38
NH56	7/20/2008	H99	Cc	In Situ	0.5 mi w R45
NH53	7/20/2008	H93	Cc	In Situ	0.6 mi n R43
NH58	7/21/2008	H102	Cm	Relocated	0.1 mi s R44
NH59	7/22/2008	H104	Cc	In Situ	3.1 mi e R55
NO22	7/22/2008	O49	Cc	In Situ	0.6 mi s R59
NH60	7/22/2008	H105	Cc	In Situ	0.1 mi s R44
NH61	7/24/2008	H106	Cc	In Situ	0.2 mi e R49

NO23	7/27/2008	O54	Cc	In Situ	1.4 mi s R59
NBH10	7/27/2008	BH19	Cc	In Situ	1.0 mi n R27
NBH11	7/28/2008	BH20	Cc	Relocated	0.5 mi n Rod Pier
NH62	7/28/2008	H108	Cc	In Situ	0.3 mi w R49
NO24	7/29/2008	O56	Cc	In Situ	0.2 mi n R68
NBH12	8/3/2008	BH21	Cc	In Situ	1.0 mi n R27
NH63	8/4/2008	H113	Cc	In Situ	0.6 mi n R43
NH64	8/5/2008	H114	Cc	In Situ	0.2 mi e R45
NH65	8/7/2008	H116	Cc	In Situ	1.6 mi w R49
NH66	8/8/2008	H118	Cc	In Situ	0.3 mi s R44
NH69	8/9/2008	H123	Cc	In Situ	1.4 mi w R49
NH67	8/9/2008	H121	Cc	In Situ	1.1 mi e R49
NH68	8/9/2008	H122	Cc	In Situ	0.2 mi e R49
NH70	8/12/2008	H125	Cc	In Situ	Immediately R34
NH71	8/17/2008	H126	Cc	Relocated	2.0 mi n R55
NH72	8/19/2008	H127	Cc	In Situ	2.1 mi s R38
NH73	8/21/2008	H128	Cm	In Situ	2.6 mi e R55
NH74	8/22/2008	H130	Cc	In Situ	Lighthouse Beach
NH75	8/24/2008	H131	Cc	In Situ	1.7 mi w R49

zone_	site_type	Depth_eggs	Trans	Reloc_loc	Reloc_site	Reason_rel
96	RC-ORV	20	45	0.1 mi nw SPR	RC-ORV	High tide, erosion
83	Limited	40	45			
94	ORV	24	45	0.1 mi s R44	RC-ORV	High tide
87	Village	32	60	1.6 mi n R38	Village	High tide, erosion
96	RC-ORV	37	45	Salt Pond Road	RC-ORV	High tide
97	RC-ORV	30	45			
104	Village	29	30	4.3 mi s R49	Village	High tide
113	Ped Low	18	45			
122	ORV	29	45			
99	ORV	14	45			
94	RC-Ped Cor	36	45			
113	Ped Low	31	60			
113	Ped Low	24	60			
100	ORV	19	45			
114	Ped Low	26	60			
91	RC-Ped	21	45			
115	Ped Low	13	45			
80	ORV	20	45			
76	RC-ORV	30	45			
96	RC-ORV	32	45	0.5 mi e SPR	RC-ORV	High tide
87	Village	22	45			
95	RC-ORV	42	45			
115	Ped High	41	45			
74	ORV	35	45			
94	Ped Low	34	45			
93	Ped High	31	45			
97	RC-ORV	42	45			
85	RC-ORV	31	45			
94	ORV	18	45	0.5 mi n R43	Ped Low	High tide
114	Ped Low	26	45			
94	Ped Low	38	45			
94	Ped Cor	33	45			
53	ORV	45	30			
94	RC-Ped Cor	26	45			
99	ORV	12	45			
119	Ped High	24	60			
87	Village	36	45			
115	Ped High	23	45			
77	ORV	54	30			
112	Ped	38	45			
116	ORV	28	45			
87	Village	22	45			
82	ORV	32	45			
80	ORV	48	45			
106	ORV	35	45			
121	ORV	20	45			

100	ORV	28	60			
117	ORV	23	45			
116	ORV	21	45			
91	RC-Ped	24	45	3.2 mi s R38	RC-Ped	Area susceptible to erc
118	Ped High	11	30			
97	RC-ORV	43	45			
93	Ped High	48	45			
106	ORV	37	60			
97	RC-ORV	34	45	0.2 mi w R45	RC-ORV	High tide
95	RC-ORV	24	45			
87	Village	35	45			
77	RC-ORV	56	30			
96	RC-ORV	65	45	0.6 mi se SPR	RC-ORV	High tide
99	ORV	29	45			
71	Village	47	30	2.9 mi n R23	Village	High tide
99	ORV	12	45			
90	ORV	37	45			
120	Ped High	23	45			
93	Ped High	39	45		Ped Low	Heavy overwash and b
73	RC-ORV	27	45	0.3 mi n R23	Village	High tide
104	Village	27	45			
115	Ped Low	33	45			
110	ORV	48	45			
105	Village	0	45			
82	ORV	30	30	1.6 mi s R30	ORV	Ghost Crab Predation
121	RC-ORV	30	45	0.6 mi n R72	RC-ORV	Area susceptible to erc
89	ORV	30	45			
95	RC-ORV	13	45	Bypass Road	RC-ORV	Area susceptible to erc
75	ORV	50	30			
99	ORV	47	45			
90	ORV	39	45			
95	RC-ORV	25	45			
112	Ped Low	28	45			
72	Village	28	45	25 ft west of origi	Village	High tide
90	Ped Low	17	45			
95	RC-ORV	43	45			
92	Village	39	45			
81	ORV	39	45			
97	RC-ORV	32	45			
91	Ped Low	26	45			
97	RC-ORV	26	45			
93	Ped Low	19	45			
95	RC-ORV	43	45	0.1 mi s R44	RC-ORV	High tide
102	Ped High	26	45			
110	ORV	34	45			
95	RC-ORV	17	45			
100	ORV	35	45			

111	Ped Low	0	45			
77	RC-ORV	53	30			
71	Village	38	30	0.9 mi s Rod Pier	Village	High tide
100	ORV	28	45			
118	Ped High	28	45			
77	RC-ORV	48	30			
93	Ped Low	30	45			
96	RC-ORV	38	45			
101	Village	23	45			
95	ORV	17	45			
101	Village	25	45			
99	Limited	21	45			
100	Limited	14	45			
84	RC-ORV	30	45			
104	Ped High	33	45		Village	High tide, erosion
90	Ped Low	40	45			
103	Ped High	45	60			
93	Ped High	0	0			
101	Village	29	45			

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Eggs_reloc	Nest_depth	Nest_width	Time_moved	A_B	B_C	C_D	Dune_	Hatch_clos
165	54	25	0800	100	148	16	N	350
0	0	0		21	15	18	Y	350
165	57	26	0600	45	24	45	N	350
68	50	26	0845	27	24	20	N	150
120	62	25	0930	98	66	88	N	350
0	0	0		106	44	36	N	350
86	45	30	0800	15	20	13	Y	150
0	0	0		15	22	0	Y	75
0	0	0		48	66	26	Y	350
0	0	0		31	38	22	Y	350
0	0	0		95	77	61	N	350
0	0	0		6	11	11	Y	75
0	0	0		10	21	28	Y	75
0	0	0		34	25	16	Y	350
0	0	0		34	51	23	Y	75
0	0	0		66	39	23	N	75
0	0	0		6	34	24	Y	75
0	0	0		42	56	16	Y	350
0	0	0		82	40	61	N	350
136	63	29	0630	97	62	188	N	350
0	0	0		95	16	10	N	150
0	0	0		173	56	30	N	350
0	0	0		68	36	35	N	75
0	0	0		59	40	39	N	350
0	0	0		174	25	63	N	150
0	0	0		0	0	0	N	150
0	0	0		117	47	28	N	350
0	0	0		81	55	51	N	350
83	30	25	0630	92	56	32	N	75
0	0	0		14	34	0	Y	75
0	0	0		94	72	47	N	75
0	0	0		99	66	72	N	350
0	0	0		59	26	17	Y	350
0	0	0		129	77	88	N	350
0	0	0		20	65	9	Y	350
0	0	0		34	45	0	Y	150
0	0	0		43	17	16	Y	150
0	0	0		37	21	35	Y	150
0	0	0		57	26	9	Y	350
0	0	0		8	13	38	Y	75
0	0	0		27	53	22	Y	350
0	0	0		82	15	17	N	150
0	0	0		42	26	51	Y	350
0	0	0		24	35	21	Y	350
0	0	0		77	68	16	N	350
0	0	0		146	52	37	N	350

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0	0	0	28	40	12	Y	350
0	0	0	47	53	22	Y	350
0	0	0	23	58	37	Y	350
96	51	26 0600	10	22	15	Y	75
0	0	0	81	53	33	N	150
0	0	0	148	36	32	N	350
0	0	0	83	20	14	N	150
0	0	0	80	33	24	N	350
0	63	31 1030	45	83	83	N	350
0	0	0	2	17	10	Y	350
0	0	0	26	30	5	Y	150
0	0	0	47	19	13	Y	350
122	86	30 0630	108	60	199	N	350
0	0	0	80	47	18	?	350
134	65	30 0745	100	30	20	N	150
0	0	0	13	25	6	Y	350
0	0	0	84	21	19	N	350
0	0	0	52	46	21	N	150
0	0	0	28	68	53	N	150
130	51	23 0730	12	25	23	Y	150
0	0	0	11	25	16	Y	150
0	0	0	9	38	40	Y	350
0	0	0	97	67	38	Y	350
0	0	0	18	25	28	Y	150
64	61	16 0830	85	27	20	N	350
129	32	28 0930	67	184	22	N	350
0	0	0	131	36	25	N	350
0	50	23 0845	16	23	21	Y	350
0	0	0	24	17	10	Y	350
0	0	0	68	43	24	N	350
0	0	0	75	57	13	N	350
0	0	0	181	41	22	N	350
0	0	0	8	16	22	Y	75
118	53	24 0900	61	37	40	N	350
0	0	0	10	58	55	Y	75
0	0	0	34	45	24	Y	350
0	0	0	10	17	0	Y	150
0	0	0	49	15	11	Y	350
0	0	0	103	43	42	N	350
0	0	0	112	70	44	N	75
0	0	0	281	17	32	N	350
0	0	0	137	18	36	N	75
124	69	40 0715	146	57	42	N	350
0	0	0	14	24	13	Y	75
0	0	0	34	32	22	Y	350
0	0	0	18	54	20	Y	350
0	0	0	15	49	22	Y	350

0	0	0	6	34	35	Y	75
0	0	0	46	30	29	Y	350
96	70	30 0730	40	19	16	N	350
0	0	0	28	51	12	Y	350
0	0	0	11	19	0	Y	75
0	0	0	42	30	29	Y	350
0	0	0	96	77	8	N	75
0	0	0	109	100	30	N	350
0	0	0	75	43	19	N	150
0	0	0	135	58	22	N	350
0	0	0	8	22	17	Y	150
0	0	0	102	23	26	N	350
0	0	0	10	40	26	Y	350
0	0	0	8	121	0	N	350
102	54	29 0800	5	11	18	Y	150
0	0	0	69	42	12	N	75
0	0	0	10	22	27	Y	75
0	0	0	0	0	0	N	0
0	0	0	3	37	14	Y	150

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Hatch_cl_1	Est_hatch	Late_excav	first_emer	Last_emerg	Inven_date	Excav_ TE	
7/6/2008	7/19/2008	8/15/2008	7/30/2008	7/31/2008	8/3/2008	MCH	165
7/16/2008	7/29/2008	8/25/2008	8/5/2008	8/5/2008	8/14/2008	MPP	125
7/21/2008	8/3/2008	8/30/2008	8/2/2008	8/2/2008	8/5/2008	ECF	159
7/21/2008	8/3/2008	8/30/2008	7/31/2008	7/31/2008	8/3/2008	MDB	66
7/23/2008	8/5/2008	9/1/2008	8/7/2008	8/7/2008	8/11/2008	ECF	104
7/24/2008	8/6/2008	9/2/2008	8/7/2008	8/7/2008	8/11/2008	JMG	141
7/25/2008	8/7/2008	9/3/2008	8/4/2008	8/4/2008	8/8/2008	MDB	85
7/25/2008	8/7/2008	9/3/2008	8/7/2008	8/7/2008	8/12/2008	ECF	148
7/26/2008	8/8/2008	9/4/2008	8/20/2008	8/23/2008	8/24/2008	PWD	87
7/26/2008	8/8/2008	9/4/2008	8/12/2008	8/13/2008	8/15/2008	MDB	107
7/26/2008	8/8/2008	9/4/2008	8/6/2008	8/7/2008	8/9/2008	ECF	134
7/28/2008	8/10/2008	9/6/2008	8/7/2008	8/7/2008	8/12/2008	ECF	107
7/28/2008	8/10/2008	9/6/2008	8/7/2008	8/7/2008	8/12/2008	ECF	95
7/28/2008	8/10/2008	9/6/2008	8/14/2008	8/14/2008	8/17/2008	ECF	125
7/29/2008	8/11/2008	9/7/2008			8/14/2008	MCH	104
7/29/2008	8/11/2008	9/7/2008	8/7/2008	8/10/2008	8/11/2008	ECF	164
7/31/2008	8/13/2008	9/9/2008	8/10/2008	8/10/2008	8/14/2008	MCH	128
8/1/2008	8/14/2008	9/10/2008	8/7/2008	8/10/2008	8/12/2008	ECF	102
8/2/2008	8/15/2008	9/11/2008	8/18/2008	8/18/2008	8/21/2008	MPP	77
8/2/2008	8/15/2008	9/11/2008	8/15/2008	8/17/2008	8/19/2008	ELS	136
8/3/2008	8/16/2008	9/12/2008			8/27/2008	ECF	101
8/4/2008	8/17/2008	9/13/2008	8/21/2008	8/21/2008	8/25/2008	ECF	102
8/4/2008	8/17/2008	9/13/2008			9/30/2008	ECF	0
8/8/2008	8/21/2008	9/17/2008	8/17/2008	8/17/2008	8/20/2008	MPP	96
8/9/2008	8/22/2008	9/18/2008	8/18/2008	8/21/2008	8/24/2008	ECF	138
8/9/2008	8/22/2008	9/18/2008			8/27/2008	ECF	110
8/9/2008	8/22/2008	9/18/2008	8/23/2008	8/25/2008	8/29/2008	MDB	165
8/9/2008	8/22/2008	9/18/2008	8/19/2008	8/22/2008	8/23/2008	MPP	138
8/10/2008	8/23/2008	9/19/2008	8/15/2008	8/21/2008	8/21/2008	MDB	83
8/11/2008	8/24/2008	9/20/2008	8/26/2008	8/30/2008	8/30/2008	PWD	131
8/11/2008	8/24/2008	9/20/2008	8/26/2008	8/26/2008	8/30/2008	MCH	145
8/11/2008	8/24/2008	9/20/2008	8/22/2008	8/23/2008	8/26/2008	ECF	125
8/11/2008	8/24/2008	9/20/2008			9/4/2008	MPP	100
8/11/2008	8/24/2008	9/20/2008	8/22/2008	8/22/2008	8/24/2008	MDB	78
8/11/2008	8/24/2008	9/20/2008	8/24/2008	8/25/2008	8/29/2008	MPP	112
8/12/2008	8/25/2008	9/21/2008	8/20/2008	8/21/2008	8/24/2008	PWD	84
8/13/2008	8/26/2008	9/22/2008	8/23/2008	8/25/2008	8/27/2008	ECF	86
8/13/2008	8/26/2008	9/22/2008	8/21/2008	8/26/2008	8/29/2008	PWD	113
8/13/2008	8/26/2008	9/22/2008	8/31/2008	8/31/2008	9/1/2008	MPP	10
8/13/2008	8/26/2008	9/22/2008	8/24/2008	8/24/2008	8/28/2008	PWD	108
8/14/2008	8/27/2008	9/23/2008	8/25/2008	8/26/2008	8/29/2008	PWD	96
8/14/2008	8/27/2008	9/23/2008	8/17/2008	8/21/2008	8/23/2008	MPP	127
8/15/2008	8/28/2008	9/24/2008	8/23/2008	8/23/2008	8/28/2008	MPP	57
8/15/2008	8/28/2008	9/24/2008	8/24/2008	8/25/2008	8/30/2008	MPP	102
8/15/2008	8/28/2008	9/24/2008	8/21/2008	8/21/2008	8/25/2008	JMG	109
8/17/2008	8/30/2008	9/26/2008	8/28/2008	8/28/2008	8/31/2008	PWD	135

8/17/2008	8/30/2008	9/26/2008	9/3/2008	9/3/2008	9/4/2008	ECF	98
8/17/2008	8/30/2008	9/26/2008	8/27/2008	8/29/2008	8/30/2008	PWD	116
8/19/2008	9/1/2008	9/28/2008	8/26/2008	8/27/2008	8/30/2008	PWD	82
8/20/2008	9/2/2008	9/29/2008	8/24/2008	8/25/2008	8/29/2008	MDB	94
8/20/2008	9/2/2008	9/29/2008			9/9/2008	PWD	85
8/21/2008	9/3/2008	9/30/2008			9/2/2008	ECF	89
8/23/2008	9/5/2008	10/2/2008			9/2/2008	ECF	115
8/23/2008	9/5/2008	10/2/2008	8/28/2008	8/29/2008	9/2/2008	ECF	82
8/23/2008	9/5/2008	10/2/2008	8/29/2008	9/3/2008	9/4/2008	MCH	156
8/25/2008	9/7/2008	10/4/2008	9/16/2008	9/16/2008	9/19/2008	TKB	138
8/26/2008	9/8/2008	10/5/2008			9/2/2008	ELS	105
8/26/2008	9/8/2008	10/5/2008			9/5/2008	MPP	105
8/27/2008	9/9/2008	10/6/2008			9/13/2008	MDB	121
8/27/2008	9/9/2008	10/6/2008	9/5/2008	9/5/2008	9/5/2008	MDB	111
8/27/2008	9/9/2008	10/6/2008			9/5/2008	MPP	129
8/28/2008	9/10/2008	10/7/2008			9/5/2008	MDB	118
8/29/2008	9/11/2008	10/8/2008			9/2/2008	ECF	83
8/30/2008	9/12/2008	10/9/2008			9/10/2008	JNW	152
8/30/2008	9/12/2008	10/9/2008			9/28/2008	ECF	130
8/30/2008	9/12/2008	10/9/2008			9/5/2008	MPP	130
8/31/2008	9/13/2008	10/10/2008	9/1/2008	9/3/2008	9/3/2008	MDB	117
8/31/2008	9/13/2008	10/10/2008			9/9/2008	PWD	104
9/1/2008	9/14/2008	10/11/2008			9/26/2008	JNW	119
9/1/2008	9/14/2008	10/11/2008	9/5/2008	9/5/2008	9/5/2008	MDB	96
9/2/2008	9/15/2008	10/12/2008			9/9/2008	MPP	81
9/2/2008	9/15/2008	10/12/2008			9/9/2008	JNW	123
9/2/2008	9/15/2008	10/12/2008			9/3/2008	ECF	86
9/2/2008	9/15/2008	10/12/2008	9/13/2008	9/15/2008	9/17/2008	ECF	86
9/3/2008	9/16/2008	10/13/2008					0
9/3/2008	9/16/2008	10/13/2008			9/3/2008	ECF	0
9/4/2008	9/17/2008	10/14/2008	9/5/2008	9/5/2008	9/5/2008	MCH	97
9/4/2008	9/17/2008	10/14/2008	9/12/2008	9/16/2008	9/16/2008	JMG	101
9/4/2008	9/17/2008	10/14/2008			9/25/2008	JNW	113
9/4/2008	9/17/2008	10/14/2008	9/14/2008	9/15/2008	9/17/2008	MMP	118
9/6/2008	9/19/2008	10/16/2008			9/10/2008	ECF	112
9/6/2008	9/19/2008	10/16/2008	9/16/2008	9/17/2008	9/19/2008	MDB	79
9/6/2008	9/19/2008	10/16/2008	9/5/2008	9/5/2008	9/5/2008	MDB	99
9/7/2008	9/20/2008	10/17/2008	9/13/2008	9/15/2008	9/17/2008	ECF	113
9/7/2008	9/20/2008	10/17/2008			9/28/2008	ECF	94
9/7/2008	9/20/2008	10/17/2008	9/12/2008	9/12/2008	9/17/2008	ECF	130
9/7/2008	9/20/2008	10/17/2008			9/25/2008	MCH	144
9/7/2008	9/20/2008	10/17/2008	9/16/2008	9/17/2008	9/19/2008	MDB	133
9/8/2008	9/21/2008	10/18/2008	9/16/2008	9/16/2008	9/19/2008	MCH	126
9/9/2008	9/22/2008	10/19/2008	9/16/2008	9/16/2008	9/19/2008	MDB	103
9/9/2008	9/22/2008	10/19/2008			9/30/2008	JNW	102
9/9/2008	9/22/2008	10/19/2008	9/17/2008	9/18/2008	9/19/2008	MDB	118
9/11/2008	9/24/2008	10/21/2008			9/30/2008	JMG	87

9/14/2008	9/27/2008	10/24/2008			9/30/2008	JNW	91
9/14/2008	9/27/2008	10/24/2008			9/21/2008	MMP	101
9/15/2008	9/28/2008	10/25/2008			9/24/2008	MMP	96
9/15/2008	9/28/2008	10/25/2008			9/28/2008	ECF	84
9/16/2008	9/29/2008	10/26/2008			10/9/2008	JNW	118
9/21/2008	10/4/2008	10/31/2008					48
9/22/2008	10/5/2008	11/1/2008			9/29/2008	MDB	131
9/23/2008	10/6/2008	11/2/2008			10/16/2008	ECF	137
9/25/2008	10/8/2008	11/4/2008			10/20/2008	MPP	119
9/26/2008	10/9/2008	11/5/2008			9/29/2008	MDB	132
9/27/2008	10/10/2008	11/6/2008	10/16/2008	10/19/2008	10/20/2008	ECF	98
9/27/2008	10/10/2008	11/6/2008			9/25/2008	ECF	80
9/27/2008	10/10/2008	11/6/2008			10/23/2008	MDB	96
9/30/2008	10/13/2008	11/9/2008					0
10/5/2008	10/18/2008	11/14/2008	10/20/2008	10/21/2008	10/23/2008	MDB	101
10/7/2008	10/20/2008	11/16/2008					0
10/9/2008	10/22/2008	11/18/2008			11/5/2008	MPP	115
			8/22/2008	8/22/2008	8/22/2008	MDB	96
10/12/2008	10/25/2008	11/21/2008			12/15/2008	MDB	93

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ES	UH	DH	LH	Emerged	Emerge Suc	Comp_loss	Comp_loss_
106	55	1	14	91	55		
55	70	6	32	17	14		
151	8	3	11	137	86		
62	4	0	1	61	92		
55	49	1	0	54	52		
124	17	0	0	124	88		
80	5	0	0	80	94		
123	25	2	27	94	64		
81	6	3	3	75	86		
91	16	0	4	87	81		
122	12	0	34	88	66		
94	13	0	0	94	88		
84	11	5	14	65	73		
114	11	0	2	112	90		
0	104	0	0	0	0		Suspected disease
128	36	4	2	122	74		
125	3	0	0	125	98		
85	17	1	1	83	81		
76	1	0	0	76	99		
94	42	1	20	73	54		
1	100	0	0	1	1		
98	4	0	1	97	95		
0	0	0	0	0	0		
92	4	0	1	91	95		
124	14	0	26	98	71		
0	110	0	0	0	0		
149	16	7	2	140	85		
134	4	0	1	133	96		
68	15	0	7	61	73		
126	5	5	11	110	84		
10	135	0	2	8	6		
121	4	20	4	97	78		
37	63	1	0	36	36		
52	26	1	1	50	64		
110	2	0	3	107	96		
80	4	2	2	76	90		
72	14	1	0	71	83		
111	2	5	0	106	94		
6	4	0	0	6	60		
93	15	1	0	92	85		
90	6	1	1	88	92		
91	36	1	0	90	71		
51	6	0	0	51	89		
100	2	0	1	99	97		
108	1	0	1	107	98		
131	4	131	0	0	0		Hurricane Hanna

90	8	0	0	90	92		
111	5	0	0	111	96		
53	29	0	0	53	65		
85	9	2	12	71	76		
68	17	64	0	4	5		Hurricane Hanna
81	8	1	80	0	0		
94	21	94	0	0	0	9/2/2008	Hurricane Hanna
72	10	0	0	72	88		
140	16	0	19	121	78		
133	5	7	111	15	11		
69	36	0	67	2	2		
98	7	0	98	0	0		
14	107	12	0	2	2		
94	7	0	16	78	77		
124	5	0	124	0	0		
116	2	0	0	116	98		
50	33	50	0	0	0	9/2/2008	Hurricane Hanna
61	91	61	0	0	0		Hurricane Hanna
0	130	0	0	0	0		
127	3	0	76	51	39		
113	4	2	8	99	86		
96	8	7	0	89	86		
0	119	0	0	0	0		Nor'easter
92	4	0	2	90	94		
0	64	0	0	0	0		
0	123	0	0	0	0		Hurricane Hanna
0	86	0	0	0	0		
82	4	1	1	80	93		
0	0	0	0	0	0	9/1/2008	Hurricane Hanna
0	14	0	0	0	0	9/3/2008	Hurricane Hanna
95	2	0	2	93	96		
27	74	1	4	22	22		
0	113	0	0	0	0		
114	4	0	16	98	83		
64	48	64	0	0	0		Hurricane Hanna
74	5	0	0	74	94		
78	21	0	1	77	78		
109	4	0	1	108	96		
3	91	0	3	0	0		
34	96	1	1	32	25		
94	50	0	0	94	65		
130	3	1	16	113	85		
31	86	1	0	30	26		
94	9	0	1	93	90		
0	102	0	0	0	0		Nor'easter
113	5	0	4	109	92		
21	66	17	4	0	0		

0	91	0	0	0	0		
92	9	0	92	0	0		
86	10	67	19	0	0		
0	84	0	0	0	0		
111	7	0	0	111	94		
0	0	0	0	0	0	9/25/2008	Nor'easter
0	131	0	0	0	0		Nor'easter
0	137	0	0	0	0		Hurricane Hanna (?)
0	119	0	0	0	0		
0	132	0	0	0	0		
96	2	1	12	83	85		
0	80	0	0	0	0		
92	4	0	0	92	96		
0	0	0	0	0	0	9/1/2008	Hurricane Hanna
69	32	1	8	60	59		
0	0	0	0	0	0	9/22/2008	Nor'easter
83	32	1	23	59	51		
83	13	0	83	0	0		
0	93	0	0	0	0		Cold Weather

Overwash	Part_loss_
0	10-15 hatchlings lost to ghost crab predation
2	Ghost Crab Predation of hatchlings and eggs
0	2 hatchlings lost to ghost crab predation
0	
0	Ghost Crab Predation
0	
1	
0	
0	<Null>
0	
0	
0	<Null>
0	Ghost crab predation
0	
0	
6	
0	Ghost crab predation (2 hatchlings)
1	
6	10 hatchlings predated by ghost crabs
0	
14	Bacteria or Fungus?
1	Ghost crab predation, Disorientation
0	
1	
2	Ghost crab predation
16	Ghost crab predation, Bacteria or fungus
0	Heavy rain on 8/28/, 8/29, 7 dead
1	
0	Ghost crab predation both eggs and hatchlings
0	<Null>
6	Bacteria (60) and overwash
2	Overwash (pre-emergent hatchlings)
10	Under standing water
7	
0	
0	Ghost crab predation
0	Ghost crab predation
0	Ghost crab predation of 5 dead hatchlings
6	
0	
0	
2	
0	Ghost crab predation
0	
3	
0	

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1	
0	
0	
0	Ghost crab predation, 2 dead hatchlings
0	
1	
1	
3	
0	
0	
1	Ghost crab predation
3	
0	Bacteria, high water table
0	
3	
1	
8	
0	<Null>
9	Ghost crab predation, bacteria
1	
0	Ghost crab predation
0	
0	
1	
0	Ghost crab predation
0	
9	
0	
6	
5	
2	
3	
0	
4	
4	Ghost crab predation
2	
1	
3	Ghost crab predation
14	Ghost crab predation, inundation
4	Ghost crab predation, inundation
8	Inundation
0	
4	
4	Ghost crab predation
0	
0	
8	Hurricane Hanna and Nor'easter

0	
6	
4	Inundation and standing water (water table)
10	
0	
9	
10	
11	
6	
15	Inundation, bacteria
1	Feral cat and ghost crab predation (hatchlings)
8	Nor'easter
1	
8	
2	Wash out of 26 eggs, counted as unhatched
8	
1	
0	
1	

Comments
4 eggs found crushed and removed when nest was discovered. Nest was not fully expanded due to bird closure

Late stage developed egg had twins
Turtle was harassed by visitors during nesting, laid below high tide. Visitors reported hatchlings IN campfire, 300 y

1164517 with transponder. Dog tracks. People and cat tracks inside filter fencing during hatchling
Lots of fire ants in nest

1176480 with transponder
PVC moved

6 eggs found on beach near ghost crab hole before hatching. 1 hatchling predated by ghost crabs.
1164541 on transponder
Excavated due to believed hatch on 8/10.
2 deformed hatchlings, 1 with small head and wide carapace and deformed LFF; other very small and no use of fro

Intentional violation on 8/17 with no resultant loss

Excavated early due to continuous overwash. 58 eggs were bright pink inside
~15 hatchlings turned at edge of filter fencing and traveled back duneward, were trapped in tire ruts. 10 tracks ev
Could not find nest or eggs

Excavated Early due to continuous overwash. Some eggs bright pink inside, some aqua blue

Intentional violation - Pedestrian jumped up and down on nest late in incubation, resulting in the death of at least
1176522 on transponder. ~40 hatchlings went through a tear in the filter fencing and traveled parallel to the beac

Only 10 eggs laid

4 hatchlings stuck in footprints in intertidal zone, released

Excavated early due to TS Hanna. Intentional violation (sign)

Initial excavation on 9/1, due to Hanna. 17 unhatched eggs, reburied, inventoried 9/9
Excavated early due to TS Hanna
Excavated early due to TS Hanna

Excavated early due to TS Hanna. 5 eggs relocated to NH38
Excavated early due to incoming Nor'easter
Excavated early due to TS Hanna
Excavated early due to TS Hanna
41 undeveloped eggs were pink inside
Excavated early due to TS Hanna. Took 10 viable eggs from nest
Excavated early due to TS Hanna
Excavated early due to TS Hanna
Excavated early due to TS Hanna and standing water
Excavated early due to TS Hanna
Moved 8/29 from 35.25405 -75.52092, 26 hot pink eggs
Excavated early due to TS Hanna
Excavated early due to predation, 2 undev, 2 pipped and 1 hatchling
Excavated early due to TS Hanna
Excavated early due to Nor'easter
Excavated early due to TS Hanna
17 eggs predated and removed on initial lay date. Excavated early due to heavy predation. 2 albino mid-stage
Under water 9/2/08. Excavated early due to TS Hanna
9 spacer eggs, many irregular eggs, shells were weak, possible genetic abnormality

Nest washed out
Nest inundated, only 14 eggs could be excavated
Excavated early due to TS Hanna

Excavated early due to Nor'easter

Excavated early due to inundation by TS Hanna. Weak and thin egg shells, some eggs malformed, possible genetic

Early hatch witnessed by pedestrians, hatchlings wandered around parking lot of Buxton Motels. 1 hatchling hit by

9/21 3 hatchlings pulled from nest (checked during storm event)

Excavated due to Nor'easter

9 crused eggs removed during relocation. 9/16 Sand deposition
Visitors found hatchlings behind the closure, rescued 8 and carried them to the water. No tracks visible the next d
Excavated early due to Nor'easter

Excavated early due to Nor'easter
Excavated early due to incoming Nor'easter

Excavated early due to continous inundation, standing water during storm event
Excavated early due to Nor'easter
Nest washed out
Excavated early due to continous inundation, standing water during storm event
Excavated early due to continous inundation, standing water during storm event
Moved 9/11 (after Hanna) from 35.22667 -75.63239 due to erosion.
Was not expanded due to weather. 75 pink eggs

Eggs in standing water during excavation
Excavated after checking for compaction and finding egg shells.
Nest washed out
Moved 9/25 from 35.21556 -75.67203, 26 eggs washed out.
Nest washed out
Moved 9/26 from 35.21910 -75.66103. 23 live hatchlings sent to N Aquarium. 1 live, 4 L, and 5 PI were amel or de
Child found previously unknown nest while digging near the third jetty. Hatchlings were collected and delivered to
Nest went late into the season. Only overwashed mildly one day, but complete loss of all late stage hatchlings due

Exca_UH	Observ	Incub_per	Hatch_	Lat_
47 U, 5 L, 3 PI	MCH	73	65	35.22910000000
9 U, 15 E, 9 M, 7 L, 11 PI, 19 PR	ECF	69	39	35.39417000000
4 U, 1 L, 3 PI	ECF	61	93	35.22951000000
2 U, 2 E	ELS	59	94	35.34470000000
30 U, 3 PI, 16 PR	ECF	64	52	35.22795000000
17 U	ECF	63	88	35.23376000000
3 U, 2 E	JIS	59	94	35.21380000000
25 U	JEG	62	82	35.15754000000
6 U	JEG	74	90	35.08793000000
4 U, 11 E, 1 M	JIS	66	85	35.23454000000
8 U, 1 E, 3 PI	MDB	60	91	35.22929000000
10 U, 2 E, 1 L	AJT	59	88	35.15835000000
3 U, 8 PR	AJT	59	89	35.15953000000
10 U, 1 L	JIS	66	91	35.23266000000
3 U, 101 E	AJT	61	0	35.15667000000
28 U, 3 E, 5 L	ECF	58	76	35.27642000000
3 U	AJT	59	98	35.14891000000
11 U, 2 E, 1 L, 3 PI	JMG	55	82	35.43363000000
1 U	SLM	65	99	35.50365000000
22 U, 10 E, 4 M, 6 L	JMG	62	68	35.22301000000
9 U, 82 E, 5 M, 4 L	ECF	0	1	35.33977000000
2 U, 2 PR	ECF	66	96	35.22884000000
Unknown	AJT	0	0	35.14512000000
4 U	SLM	58	96	35.52380000000
6 U, 8 PR	MDB	58	90	35.24266000000
72 U, 28 E, 2 M, 8 PR	MDB	0	0	35.25344000000
14 U, 1 M, 1 L	MDB	63	86	35.23332000000
3 U, 1 E	SLM	59	97	35.38152000000
10 U, 3 E, 1 L, 1 PR	MCH	54	82	35.24286000000
5 U	AJT	64	92	35.15639000000
11 U, 5 E, 32 M, 81 L, 6 PI	ECF	64	7	35.24245000000
4 U	ECF	60	81	35.23186000000
22 U, 40 E, 1 M	MPP	0	36	35.82472000000
1 U, 3 E, 6 M, 12 L, 4 PI	ECF	60	65	35.22952000000
1 U, 1 L	JIS	62	98	35.23370000000
2 U, 1 L, 1 PR	JNW	57	93	35.10982000000
8 U, 1 E, 1 L, 4 PR	JMG	59	83	35.34143000000
2 U	JNW	61	94	35.14693000000
2 E, 2 L	MPP	67	60	35.48246000000
15 U	AJT	60	85	35.16611000000
5 U, 1 L	AJT	60	93	35.13427000000
33 U, 2 E, 1 PI	ECF	52	71	35.34522000000
4 U, 1 PI, 1 PR	MCH	57	89	35.40897000000
2 U	SLM	58	98	35.44460000000
1 L	MDB	55	99	35.20116000000
2 U, 2 L	AJT	60	0	35.09578000000

5 U, 1 L, 2 PI	JIS	66	92	35.23111000000
4 U, 1 E	AJT	59	96	35.13421000000
25 U, 3 E, 1 PR	AJT	56	65	35.14197000000
1 U, 8 PI	ECF	53	88	35.27462000000
17 U	AJT	0	5	35.12145000000
7 U, 1 E	MDB	0	90	35.23371000000
1 U, 6 L, 14 PI	MDB	0	0	35.25247000000
10 U	JIS	54	88	35.20177000000
10 U, 1 PI	MDB	55	90	35.23102000000
5 U	ECF	71	91	35.22440000000
3 U, 32 L, 1 PR	ECF	0	66	35.33166000000
2 U, 1 L, 4 PI	MPP	0	93	35.48698000000
64 U, 7 L, 36 PI	JMG	0	2	35.22274000000
7 U	JMG	58	93	35.23415000000
5 U	MPP	0	96	35.57315000000
2 U	ECF	0	98	35.23316000000
26 U, 1 E, 5 L, 1 PI	MDB	0	0	35.29874000000
9 U, 52 L, 30 PI	JNW	0	0	35.10782000000
40 U, 4 E, 5 M, 76 L, 5 PR	MCH	0	0	35.24511000000
2 U, 1 E	SLM	0	98	35.53620000000
4 PR	MDB	50	92	35.21404000000
8 U	PWD	0	86	35.14500000000
22 U, 97 L	PWD	0	0	35.17995000000
4 U	JIS	53	96	35.20497000000
20 U, 2 E, 5 M, 3 L, 34 PR	MPP	0	0	35.41455000000
3 U, 120 L	PWD	0	0	35.09268000000
86 U	ECF	0	0	35.31341000000
3 U, 1 PI	ECF	60	94	35.22497000000
Unknown	MPP	0	0	35.51829000000
14 U	ECF	0	0	35.23356000000
2 U	MDB	50	98	35.29797000000
74 L, 1 PI	ECF	57	26	35.22676000000
109 U, 4 E	PWD	0	0	35.16798000000
3 U, 1 L	SLM	58	96	35.56325000000
27 U, 2 E, 7 L, 2 PI, 12 PR	MDB	0	0	35.29096000000
3 U, 1 M, 1 PI	MDB	59	94	35.22483000000
7 U, 9 L, 5 PI	MDB	48	79	35.26690000000
4 PR	MPP	55	96	35.42467000000
4 U, 74 L, 5 PI, 8 PR	ECF	0	3	35.23315000000
56 U, 30 E, 1 M, 1 PI, 9 PR	MCH	54	25	35.28642000000
23 U, 26 L, 1 PI	MCH	0	65	35.23249000000
3 PI	MCH	58	97	35.24408000000
80 U, 2 E, 2 M, 2 L	ECF	57	26	35.22828000000
2 U, 3 PI, 4 PR	JIS	56	91	35.22154000000
9 U, 93 L	PWD	0	0	35.17809000000
3 U, 1 M	ECF	57	96	35.22859000000
4 U, 36 M, 15 L, 11 PI	MDB	0	5	35.23312000000

1 U, 48 E, 42 M	PWD	0	0	35.17356000000
6 U, 3 M	MPP	0	91	35.48420000000
2 U, 3 L, 5 PI	MPP	0	20	35.57277000000
1 U, 83 E	JIS	0	0	35.23158000000
7 U	PWD	0	94	35.12540000000
Unknown	MPP	0	0	35.48423000000
2 U, 127 L, 2 PR	ECF	0	0	35.24461000000
4 U, 110 E, 21 M, 2 L	ECF	0	0	35.22893000000
90 U, 29 E	MCH	0	0	35.22669000000
99 U, 26 E, 2 M, 3 L, 2 PR	JIS	0	0	35.22551000000
1 U, 1 L	JIS	68	97	35.22789000000
15 U, 65 E	JIS	0	0	35.23431000000
4 U	JIS	0	96	35.23318000000
Unknown	ECF	0	0	35.37651000000
4 U, 2 L	MDB	64	67	35.21154000000
Unknown	ECF	0	0	35.29106000000
20 U, 1 E, 4 L, 12 PI	MDB	0	71	35.21156200000
3 U, 3 E, 5 M, 2 PR	MDB	0	86	0.00000000000
3U, 90L	MDB	0	0	35.22666000000

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Long_	Distrct	InTrack	OutTra	HOBO	ORVcorr	PedCorr	
-75.54253000000	SH	104	106	1164524	N	N	
-75.48787000000	NH	101	102	1176492	N	N	
-75.52767000000	NH	104	105	1164509	N	N	
-75.50180000000	NH	81	84	1164547	N	N	
-75.54037000000	SH	103	101	1176493	N	N	
-75.56300000000	SH	108	110	1164542	N	N	
-75.67737000000	SH	117	129	1164510	N	N	
-75.84502000000	OI	84	84	1176501	N	N	
-75.98235000000	OI	76	76	1164507	N	Y	
-75.58435000000	SH	119	117	1164529	N	Y	
-75.52773000000	NH	112	114	1176481	N	Y	
-75.84305000000	OI	94	101	1176503	N	N	12
-75.84003000000	OI	90	92	1176525	N	N	1
-75.60371000000	SH	100	108	1176484	N	Y	34
-75.84693000000	OI	94	98	1164539	N	Y	1
-75.51685000000	NH	110	110	1164536	N	Y	4
-75.86597000000	OI	101	102	1164552	N	N	8
-75.48432000000	NH	0	0	0	N	Y	4
-75.47482000000	BH	87	90	1176513	Y	Y	16
-75.53357000000	SH	115	113	1164550	N	N	1
-75.50249000000	NH	103	105	1164515	N	Y	4
-75.52750000000	NH	108	108	1176494	Y	Y	4
-75.87385000000	OI	95	95	1164508	N	Y	8
-75.47043000000	BH	90	95	1176495	Y	Y	
-75.52522000000	NH	104	105	1176475	N	Y	1
-75.52131000000	NH	93	97	1176519	N	N	
-75.55928000000	SH	102	106	1176474	Y	Y	19
-75.49123000000	NH	115	110	1164548	Y	Y	
-75.52541000000	NH	87	88	1176489	N	Y	5
-75.84818000000	OI	89	89	1176476	N	N	8
-75.52526000000	NH	106	0	1176511	N	Y	2
-75.52687000000	NH	107	112	1176516	Y	Y	8
-75.55379000000	BI	110	95	1164530	N	Y	9
-75.52726000000	NH	0	0	1176507	Y	Y	
-75.59576000000	SH	102	105	1176491	N	N	
-75.94785000000	OI	81	77	1176514	N	Y	
-75.50223000000	NH	100	101	1164534	N	Y	
-75.87004000000	OI	92	91	1176483	N	Y	2
-75.47937000000	BH	75	73	1176485	Y	Y	
-75.82313000000	OI	97	102	1176504	N	N	
-75.89893000000	OI	94	86	1164549	N	N	
-75.50146000000	NH	97	103	1176490	N	Y	
-75.48566000000	NH	87	95	1176472	N	Y	
-75.48374000000	BH	112	116	1164557	N	N	
-75.71278000000	SH	78	80	1176478	Y	Y	
-75.97037000000	OI	86	88	1164527	Y	Y	

-75.61267000000	SH	111	122	1176508	N	N	
-75.89891000000	OI	98	86	1176486	N	Y	
-75.88154000000	OI	86	85	1176524	N	N	
35.27462000000	NH	95	93	1176509	N	N	
-75.92554000000	OI	80	80	1176523	N	Y	
-75.56258000000	SH	101	102	1164519	Y	Y	
-75.52222000000	NH	96	99	1176469	N	Y	
-75.71115000000	SH	103	108	1164553	Y	Y	
-75.54859000000	SH	102	102	0	Y	Y	
-75.52838000000	NH	109	110	1176468	N	N	2
-75.50462000000	NH	108	112	1164514	N	N	
-75.47861000000	BH	108	103	1164511	N	Y	
-75.53336000000	SH	118	122	1176517	Y	Y	
-75.58992000000	SH	107	105	0	Y	Y	
-75.46113000000	BH	89	83	1164538	N	Y	
-75.60078000000	SH	86	88	1164532	N	N	
-75.51205000000	NH	0	0	2014005	Y	Y	
-75.95113000000	OI	96	95	1176512	N	Y	
-75.52477000000	NH	90	91	2014003	N	Y	1
-75.46697000000	BH	100	90	1176482	N	N	
-75.67667000000	SH	0	0	2014016	N	N	
-75.87454000000	OI	97	99	1176477	N	N	
-75.78315000000	OI	94	87	1164518	Y	Y	
-75.70263000000	SH	109	111	2014015	N	N	
-75.48524000000	NH	104	95	1164537	Y	Y	
-75.97562000000	OI	86	87	1176473	N	Y	
-75.50880000000	NH	103	98	2014027	Y	Y	
-75.52827000000	NH	120	114	2014037	N	N	
-75.47162000000	BH	103	101	1164544			
-75.59571000000	SH	94	94	1164522	Y	Y	
-75.51231000000	NH	92	94	2014011	Y	Y	2
-75.52771000000	NH	94	93	2014008	Y	Y	156
-75.81799000000	OI	87	96	1176499	N	N	
-75.46196000000	BH	105	101	2014006	N	Y	
-75.51416000000	NH	102	103	2014010	N	Y	
-75.52817000000	NH	98	98	2014031	N	Y	
-75.51839000000	NH	90	91	2014034	N	N	
-75.48479000000	NH	90	89	2014007	N	Y	
-75.55810000000	SH	0	0	2014036	Y	Y	
-75.51517000000	NH	95	99	2014025	N	Y	
-75.55418000000	SH	100	103	2014035	Y	Y	
-75.52502000000	NH	110	108	2014020	N	Y	
-75.52757000000	NH	0	110	2014029	Y	Y	
-75.65253000000	SH	106	110	2014009	N	N	
-75.78896000000	OI	80	97	1164555	N	Y	
-75.52812000000	NH	98	101	2014018	N	N	
-75.60038000000	SH	0	0	1164533	N	N	

-75.80268000000	OI	92	85	2014004	N	N
-75.47916000000	BH	94	92	2014021	N	Y
-75.46122000000	BH	101	96	2014028	N	Y
-75.60966000000	SH	109	112	2014017	N	Y
-75.91795000000	OI	91	94	2014032	N	N
-75.47920000000	BH	92	89	2014013	N	Y
-75.52481000000	NH	117	117	2014024	N	Y
-75.54320000000	SH	115	116	2014022	N	Y
-75.63298000000	SH	96	96	1164540	N	Y
-75.52788000000	NH	109	120	2014019	N	Y
-75.62839000000	SH	106	109	0	N	N
-75.58577000000	SH	105	112	2014033	N	Y
-75.60101000000	SH	107	113	0	N	N
-75.49213000000	NH	100	101	2014030	N	Y
-75.68430100000	SH	104	108	2027625	N	N
-75.51396000000	NH	0	0	2027614	N	Y
-75.68425800000	SH	112	116	2027620	N	N
0.00000000000	NH	0	0	0	N	Y
-75.63307000000	SH	102	104	2014023	N	N