

Date	False crawls & Basking tracks	Nesting trip #	Map Location	# of Pits	Hatch Date	Days Incubated	Hatch #	Dig Date	Dig Count
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map locations are estimates from fields notes - Also to note the nest numbering in some yrs has been changed

1986

07/28/86		1	P	?	9/25		1		
09/18/86		2	O	3					
09/18/86		3	P	4					

beach checked only on one occasion
 noted incubation of 60 days
 and 6 excavations

1987

no nests - two aborted crawls

1988

7/4/88	A1		P/Q						
7/29/88	A2		I						
7/29/88		1	I	3					
7/29/88		2	I	2	9/27/88	59	1		
08/13/88		3	P/Q	5	10/08/88	66	2	12/03/88	62
08/29/88		4	H-J	2	10/26/88	59	3		

1989

07/25/89	A1		R/S						
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1990

- no activity

1991

6/19/1991		1*		2					
07/04/91		2			09/01/91	59	1	01/16/92	64
07/21/91		3			09/13/91	55	2	10/09/91	60
09/01/91		4			10/29/91	59	3	01/21/92	76
09/02/91	A1								

* this was observed by visiting park ranger, Joan's field notes are missing pages, starts with

1992

06/23/92
7/24/1992**

1* Q
2 P/Q 7 9/22/92 61 1 09/26/92 75

* excavations noted as shallow

** Date is estimate - notes described as not fresh and may be several wks old

1993

5/31/93		1	J	2				
5/31/93		2	H	2	7/31/93	62	1	
6/16/93		3	H/I	1	8/15/93	62	2	
6/30/93	A1		P					
7/1/93		4	M/N	3				
7/14/93		5	N/O	1				
7/18/93		6	R/S	1				
7/30/93	A2*		H					
8/14/93		7	H/I	3	10/13/93	60	3	
9/2/93		8	N/O	1				

* these tracks were noted as large - 3.5 ft across

1994

no nests observed

1995

5/20/95		1	O	1				
5/20/95		2	Q	1				
6/9/95*		3	Q	?	8/8	60*	1	10/8/95 73
6/23/95	A1		O					
6/23/95		4	J/L	1				
6/23/95		5	L	1	8/21	60	2	10/8/95 79
6/23/95		6	O	2				
6/30/95	A2		O/P					
07/05/95		7	G	?				
07/05/95		8	O	3+				
07/09/95		9	O	4				
7/06/95***		10	L/N	?	9/5	61	4**	

7/6/95 ***		11	I	2	9/2	58	3	
7/6/95 ***		12	F	2				
7/6/95 ***		13	E	2				
07/20/95		14	P/Q	3				
07/23/95		15	R	1	9/17	57	5	10/8/1995 74
07/29/95		16	P	?				
08/04/95		17	Q	4				

*actual nest date unknown - reported june 15 - tracks appeared more recent than the may 20th estimated date

**# 10 tracks windblown pit not visible - hatch was credited to #5 believe it sb #10

*** notes estimated dates between July 5 and 11 - tracks were not fresh

Dr Langer found nest (no date) near East end of Bay exposed by wind against the dune - old hatched egg

1996

07/15/96		1*	N	1			
07/18/96		2	N/O	2			

* tracks noted as from a small turtle

1997

4/30/1997		1*	E/F	4			
5/8/1997	A1		Q				
5/8/1997	A2		R				
5/9/97	A3**		P/Q				
5/9/97		2**	P/Q	1			
5/9/97		3**	P/Q	1			
5/11/1997	A4		R/S				
5/11/1997		4	R/S	5			
5/11/1997		5	S	2	7/15/97	65	1
5/22?		6***	D/E		7/20/97	60***	2
5/31?		7***	N/O		7/29/97	60***	3
6/3?		8***	G/H		8/2/97	60***	4
6/14/1997		9	L/N	2			
6/14/1997	A5		N				
6/14/1997	A6		P/Q				

6/21/1997		10	A	2			
6/21/1997		11	E	4			
6/21/1997	A7		M				
6/21/1997	A8		P/Q				
6/22/1997		12	L	3	8/20/97	61	5
6/25/1997	A9		A				
7/2/1997		13	A	2			
7/2/1997	A10		E				
7/2/1997	A11		F				
7/2/1997	A12		F				
7/3/1997		14	F	2			
7/6/1997		15	F	2			
7/19/1997		16	E/F	1			
7/19/1997		17	S	5			
7/20/1997		18	F/G	2			
8/2/1997		19	J/L	3	10/1/97	61	7
8/4/1997	A13	20					
8/4/1997		21	L/M	5			
8/5/1997		22	K/L	2	9/30/97	56	6****
8/18/1997		23	L/M	1			
9/1/1997		24	S	3			
9/2/1997		25	E	2			

*1 pm turtle observed digging 3rd excavation, 4pm had dug 4th exc, was lying in sun lethargic, Bill Puleloa tag

** these were observed by TNC staff, not included in field notes - confused with A1 & A2 - had wrong observ

*** field notes missing data for 5/14 - 6-13 - Joan away - these excavation dates are estimates made from ha

**** notes unclear as to which nest the hatch belonged to, noted as possible hatch - report lists only 6 hatch

1998

no activity

1999

05/25/99		1	Q	2			
05/25/99		2	O	3	7/25	61	1
05/25/99		3	I	1			
05/25/99		4	G	?	8/10	76	3

06/05/99		5	N	2	8/3	60	2
06/09/99	A1		M/N				
06/11/99		6	Q	3			
06/13/99		7	O	1	8/14	63	4
06/21/99	A2		N				
06/21/99		8	N	2			
06/21/99		9	N	1			
06/23/99		10	R/S	2			
06/27/99		11	N	1			
6/27/1999		12	N	4	8/23	58	5
7/9/1999	A3		N				
7/9/1999		13	E	1			
7/9/1999		14	I	3			
7/9/1999		15	N	1	9/13	67	7
7/11/1999		16	E	3	9/8	60	6
7/25/1999		17	H	2	9/25	63	8
7/25/1999		18	P	2			
7/27/08		19	E	3			
7/27/1999		20	N/O	6			
7/28/1999		21	O	4			
8/7/1999		22	L/J	2	10/8	63	9
8/11/1999	A4		J				
8/12/1999	A5		S				
8/12/1999		23	H/I	3	10/12	62	10
8/21/1999	A6		N				
8/21/1999		24	N	2			
8/22/1999		25	R/S	1	10/22	62	11
8/29/1999		26	L	1			

2000

no activity observed

2001

5/8/01		1	L/K				
5/26/01		2	D				

5/27/01		3	H/I	7/24 -7/28	58	1		
5/26/01		4	O	7/28	65	2		
5/27/01		5	R/S					
6/8/01		6	J	8/8	62	3		
6/10/01		7	J					
6/10/01		8	J/K	8/12	64	4		
6/14/01		9	K	8/17	65	5		
6/20/01		10	E					
6/21/01		11	Q					
6/24/01		12	I					
6/24/01		13	L					
6/27/01		14	K	9/1	67	6		
6/27/01		15	O	8/26 -8/31	61	7		
6/27/01	A1		O					
6/27/01		16	R					
7/9/01		17	L	9/7 - 9/10	61	8		
7/12/01		18	H/I	9/10	61	9		
7/22/08		19	H/I	9/20	61	10		
7/22/01		20	J					
7/26/01		21	H/I	9/24	61	11		
8/10/01		22	H					
8/11/01		23	I	10/11	63	12		
8/19/01		24	E					
8/20/01		25	H	10/18	60	13	30-Oct	79

* 1 dead hatchling found on sand

** 9 dead hatchlings found on sand

2002

no turtle activity

2003

5/17/2003		1		2	7/16 -7/17	60	1	
6/1/2003		2		4				
6/2/2003		3		3	8/4	63	3	
6/2/2003		4		4	7/30 - 7/31	58	2	
6/2/2003		5		4				

6/5/2003		6	1	8/4	60	4
6/12/2003		7	2			
6/10/2003		8	2			
6/13/2003	A1					
6/16/2003	A2					
6/16/2003	A3					
6/16/2003		9	2			
6/25/2003		10	2	8/24	60	5
6/29/2003		11	2			
6/30/2003		12	1	8/27 -9/5	58	6
6/30/2003		13	2			
7/9/2003		14	2			
7/10/2003		15	2			
7/10/2003		16	3	9/3 - 9/6	55	7
7/15/2003		17	1	9/17	64	8
7/15/2003	A4					
7/25/2003		18	2	9/25	63	9
7/26/2003		19	2			
7/29/2003	A5					
7/29/2003		20	1	9/25 - 9/30	58	10
7/30/2003		21	3			
7/30/2003	A6					
8/1/2003		22	1			
8/6/2003		23	1	10/16	71	11
8/7/2003		24	2	10/6	60	12
8/22/2003		25	1			
8/22/2003		26	2	10/19	58	13
8/22/2003		27	3			

* found 4 dead hatchlings on sand

2004

6/5/04		1	N/O	3		
6/6/04		2	N/O	1		
6/18/04	A1					

6/18/04		3	A	2					
6/18/04		4	A	2					
6/20/04		5	K	4	8/17 - 8/20	59	1		
7/2/04		6	A	2					
7/3/04		7	E	2					
7/5/04		8	J/K	7					
7/7/04		9	D/E	1	8/30	55	2*	3-Nov	80
7/19/04		10	B	5					
7/20/04		11	G	3	9/15 - 9/30	57	3		
8/5/04		12	D	1					
8/17/04		13	D/E	2	10/9 - 10/15	54	4		
8/30/04		14	D	3					
9/11/04		15	E/F	2	11/10 - 11/24	61	5		
9/25/04		16	D/E	2	11/25	62	6	Dec	72
10/8/04	A2								

* hatch #2 - 8/14 found nest washing out, moved eggs to higher location, hatch was not observed

** Hatch #3 - 2 tracks may have come from unmarked nest higher up the beach

2005

5/1/2005		1	N	1					
5/1/2005	A1		S						
5/1/2005	A2		S						
5/2/2005		2	N	2					
5/4/2005		3	L	6					
5/6/2005		4	H/I	3					
5/9/2005	A3		S						
5/17/2005		5	E	1					
5/17/2005	A4		H/I						
5/18/2005		6	G	2					
5/21/2005		7	N	1					
5/21/2005	A5		H/I						
5/21/2005		8	P/Q	2					
5/23/2005	A6		E						
5/23/2005		9	M	4					
5/23/2005		10	N	7					
5/23/2005		11	N/O	1					

5/23/2005		12	N/O	1				
5/24/2005		13	M	2				
5/24/2005	A7		H					
5/24/2005		14	N	2	8/3	70	3	
5/24/2005		15	R	1				
5/25/2005		16	H/I	1	7/25	62	1	
5/29/2005	A8		S					
5/31/2005		17	E/G	5				
5/31/2005	A9		S					
6/1/2005		18	L	2				
6/1/2005	A10		O					
6/7/2005	A11		S					
6/8/2005		19	I/J	1	8/2	55	2	
6/14/2005	A12		J/K					
6/14/05*		*	J/K		8/12	60*	4	
6/14/05*		*	J		8/12	60*	5	
6/25/2005		20	A	2				
6/26/05*		*	J/L		8/24	60*	6	
6/28/2005		21	G	2	8/25	59	7	
6/30/05*		*	L		8/26		8	
7/8/2005		22	G	2				
7/8/2005	A13		E/F					
7/8/2005	A14		J/L					
7/23/2005		23	I	2	9/17	56	9	
7/23/2005		24	J	3	9/21	60	10	
8/5/2005		25	E/F	4				
8/5/2005		26	A	2				
8/6/2005		27	E/F	4				
8/6/2005	A15		M					
8/7/2005	A16		D/E					
8/7/2005		28	F	1				
8/7/2005		29	J	1	10/5	59	11	
8/7/2005		30	L	2				
8/7/2005	A17		S					
8/20/2005		31	I/J	4	10/15	56	12	11/14/2005
8/21/2005	A18		L/M					81
8/21/2005	A19		L/M					

8/23/2005		32	H	2
8/30/2005	A20		Q	
9/4/2005		33	H	4
9/5/2005		34	E/F	4
9/6/2005		35	E/F	5
9/7/2005		36	M	1
9/7/2005		37	E	1

* unrecorded nests, estimated excavation dates using 60 days incubation time
was a difficult year for nest ID - many long crisscrossing tracks and overlapping excavations

2006

4/25/2006	A1		S					
5/1/2006	A2		S					
5/5/2006	A3		R					
5/19/2006	A4		S					
5/21/2006	A5		S					
5/22/2006	A6		C					
5/22/2006	A7		D					
05/23/06		1	E/F	2				
5/24/2006	A8		H					
6/7/2006	A9		I					
06/08/06		2	P	2				
06/09/06		3	I	4	8/4	56	1	8/8/2006 92
6/12/2006	A10		S					
6/20/2006	A11		R					
06/23/06		4	D/E	4	?		*	
06/24/06		5	O	2	9/2	70	2	5/9/2006 0
7/6/2006	A12		S					
7/7/2006	A13		S					
7/8/2006	A14		S					
07/08/06		6	G/H	1				
7/9/2006	A15		Q					
07/09/06		7	D/E	5	?		*	
7/10/2006	A16		S					
07/10/06		8	I	1	9/10	62	3	9/15/2006 82
7/12/2006	A17		S					
7/16/2006	A18		R					
7/17/2006	A19		R					
7/20/2006	A20							
7/21/2006	A21							
7/22/2006	A22		S					
07/23/06		9	G/H	2				

7/24/2006	A23		S						
07/24/06		10	D/E	5					
7/25/2006	A24		S						
07/25/06		11	B	3					
08/08/06		12	D/E	3					
08/08/06		13	K	2	10/7	60	4	10/11/2006	77
8/19/2006	A25		S						
08/26/06		14	K	4					
9/5/2006	A26		S						
9/5/2006	A27		R						
09/05/06		15	B	2					
09/06/06		16	M	2	11/6	61	5	11/9/2006	80
9/15/2006	A28		R						
9/16/2006	A29		R						
09/20/06		17	F	2	11/24	65	6+2*	11/27/2006	75
10/31/2006	A30		R						
11/18/2006	A31		S						
11/19/2006	A32**		R						

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Notes up 3 days after the last hatchling has emerged

Nest #1	11/9/2006	dug nest, found no eggs
Nest #2	12/21/2006	dug nest, found no eggs - with George Balazs
* Nest # 4	10/8/2006	found 12 empty shells in sand bank being washed out by surf
Nest # 5	9/5/2006	dug nest, no eggs - tracks must have come from #5 upper nest - not marked
* Nest # 7	9/27/2006	found nest washing out, estimated to be 80 empty shells
Nest #13	10/7/2006	track count is estimate only, tracks not counted
Nest #14	11/27/2006	dug nest, found no eggs
Nest #15	12/21/2006	dug nest, found no eggs - with George Balazs
Nest #17	11/24/2006	unable to count tracks accurately, high tide waves came up very close to nest

** of the 32 false crawls, 28 of these were below the high water line and found at the Western end of the beach

2007

05/10/07		1	F/G	4	7/17	67	1	07/24/07	48
05/22/07	A1		N						
05/22/07		2	Q	2	7/26	65	2	07/27/07	77
05/26/07		3	K	1					
05/27/07	A2		L						
05/27/07		4	G/H	3					
05/27/07		5	H	1					
05/28/07	A3		F						

05/28/07		6	I	2	8/1	65	3	08/05/07	64
06/05/07	A4		B						
06/06/07		7	K	1	8/7	62	4	08/12/07	86
06/12/07	A5		H						
06/12/07	A6		J						
06/12/07	A7		N						
06/12/07	A8		N						
06/13/07	A9		N						
06/13/07		8	K	1	8/16	64	5	08/20/07	78
06/18/07		9	F/G	1					
06/18/07		10	O/P	2					
06/19/07		11	H/I	1	8/16	58	6	08/20/07	86
06/28/07	A10		E/F						
06/29/07		12	E	2					
06/29/07		13	E/F	1					
06/30/07		14	H/I	2	8/29	61	7	09/05/07	78
07/03/07		15	H	2	8/30	59	8	09/05/07	81
07/14/07	A11		H						
07/15/07	A12		E						
07/15/07	A13		E						
07/16/07		16	E	2					
07/16/07		17	G	1					
07/16/07		18	H	2					
07/16/07		19	I	2					
07/17/07		20	F	2					
07/17/07		21	I	1					
07/18/07		22	J	2	9/13	57	9	09/17/07	81
07/31/07		23	I	1	9/29	60	10	10/03/07	78
08/01/07		24	M	1	9/29	59	11	10/03/07	72
08/15/07		25	G	6					
08/16/07		26	G/H	1	10/14	60	12	10/19/07	79
08/16/07		27	L	1	10/15	61	13	10/19/07	84
08/30/07		28	I/J	3	11/2	64	14 **	11/8/07	81
									1073

* stopped counting tracks 2007

** nest 28 hatched 11/2, 3 more 11/3 - very heavy rainfall 4th & 5th, nest dug 8th - found 1 live near surface

#3 either a shallow pit or strong winds had blown in

#7 ; not fresh, tracks were reported on the 6th,

2008

04/27/08
05/01/08

A1 S
A2 S

05/24/08		1	P	1	7/28	66	1	7/31/08	67
06/10/08	A3		S						
06/14/08		2	R	2	8/14	61	2	9/23/08	0
06/28/08	A4		Q						
06/28/08	A5		R/S						
06/29/08		3	R	1					
07/05/08	A6		A/B						
	A7		N						
	A8		Q						
7/29/2008	A9		S						
7/31/2008		4	S	1	10/5	65-70	3	11/10/08	0
8/15/2008		5	S	3					
8/18/2008	A10		S						
8/29/2008		6	S	2	11/4	67	4	11/10/08	77
9/10/2008	A11		S						
9/13/2008		7	S	1					
10/24/2008	A12		S						

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Nest # Notes

- 1 3 apparent injuries - found the morning after the hatch
- 2 area was not clear, unable to find shells
- 4 3 exit area visible, 10/09 1 clear track , unable to find shells
- 6 the nest, 57 unhatched dead all showed mortality in the later embryo stage
- 7 w out to west end of beach washing out #7

Nesting activity at small beach to east of Kawaaloo beach

Excavation #

05/23/08	1
06/13/08	2
07/04/08	3
07/05/08	4
07/30/08	5

2009

05/20/09	A1		S						
05/30/09		1	E	2					
06/01/09	A2		R						
06/01/09	A3		S						
06/03/09		2	K/L	1					
06/04/09	A4		H						
06/06/09		A5	I/J	1?	8/9	64	2	8/14	70

06/07/09	A6	3	E/F	1					
06/08/09		4	G	2	8/9	62	1	8/14	75
06/13/09	A7		R/S						
06/14/09	A8		N						
06/15/09	A9		N						
06/15/09	A10		N						
06/15/09	A11		N						
06/16/09	A12		H						
06/16/09	A13		Q						
06/16/09		5	M	1					
06/20/09	A14		A						
06/20/09	A15		S						
06/21/09		6	F	2	8/24	64	3	8/28	75
06/21/09		7	I/J	2					
06/22/09		8	S	2					
06/25/09	A16		R/S						
06/28/09	A17		D/E						
06/28/09	A18		S						
07/01/09 ?		9a	D/E	1?					
07/04/09		9	I	2	9/4	62	4	9/9	88
07/07/09	A19		E/H						
07/07/09	A20		R/S						
07/07/09		10	S	2					
07/08/09		11	H/I	2	9/6	60	5	9/9	65
07/14/09	A21		N						
07/15/09	A22		H						
07/18/09		12	K	3	9/19	63	6	9/24	66
07/19/09	A23		R/S						
07/25/09		13	L	2					
07/25/09		14	S	2					
07/26/09		15	K/L	3					
07/27/09	A24		S						
07/30/09	A25	16	S	3	9/26	59	7	10/2	61
08/13/09	A26		C						
08/13/09		17	E/F	1					
08/13/09		18	G	1					
08/13/09		19	I	1	10/14	63?	9	10/16	75
08/13/09		20	J	3	10/13	61?	8	10/16	71
08/13/09		21	R	3					
08/13/09		22	S	1					
08/21/09	A27		S						
08/26/09	A28		L						

08/26/09		23	H	1	10/27	62	10	11/1	63
08/27/09	A29		M						
08/28/09	A30		N/O						
08/28/09		24	O	1					
08/28/09	A31		R/S						
08/29/09		25	O	1	10/28	60	11	11/1	81
09/09/29		26	B/C	1					
09/09/09		27	J/K	1					
09/10/09		28	D	1	11/9	60	12	11/15	70
09/16/09	A32		S						
9/16/09	A33		S						
9/17/09	A34		S						
10/01/09	A35		S						
10/03/09	A36		S						
10/04/09	A37		S						

860

Notes

A4 observed turtle crawling from ocean to part way up dune and return to ocean 9am - 10:30am -pictures/no tags
 9a unrecorded nest washed out by high tides - 4 eggs recovered from ocean
 5A wind had removed all signs of her activity other than in the damp sand near the water - same track width as 1 & 2, a possible excavation
 17 - 22 these excavations found Aug 13th - beach had not been checked Aug 10,12,12 - # 20 looked fresh
 A32 & A33 George Balazs found 2 basking turtles at shoreline - had been tagged 2007 nesting at French Frigate Shoals

36 actual aborted trips on shore - 5A was an excavation - wind swept away all but shoreline tracks and filled excavation
 30 actual nesting trips onshore - 5A and 1 unrecorded nest discovered when tide washed it out

Nesting activity at small beach to east of Kawaaloo beach

Excavation

5/24/08	1
7/16/08	2

2010

04/02/10	A1	S
04/02/10	A2	S
04/06/10	A3	S
04/06/10	A4	S
04/06/10	A5	S

04/09/10	A6	S							
04/09/10	A7	S							
04/09/10	A8	S							
04/09/10	A9	S							
04/11/10	A10	S							
04/11/10	A11	S							
04/16/10	A12	S							
04/18/10	A13	S							
04/22/10	A14	S							
04/22/10	A15	S							
04/23/10	A16	S							
04/23/10	A17	S							
04/24/10	A18	R							
04/30/10	A19	S							
05/01/10	A20	S							
05/01/10	A21	S							
05/02/10	A22	S							
05/02/10	A23	S							
05/04/10	A24	S							
05/04/10	A25	S							
05/04/10	A26	S							
05/06/10	A27	S							
05/07/10	A28	S							
05/07/10	A29	R							
05/09/10	A30	S							
05/09/10	A31	S							
05/11/10	A32	S							
05/11/10	A33	S							
05/14/10	A34	I							
05/14/10	A35	S							
05/14/10	A36	S							
05/15/10		I	1		2				
05/16/10		K	2		3	7/25	70	1	7/29
05/17/10	A37	S							70
05/18/10	A38	R							
05/19/10	A39	S							
05/20/10	A40	S							
05/21/10	A41	S							
05/24/10	A42	R/S							
05/24/10	A43	S							
05/26/10	A44	S							
05/31/10		G H	3		2				

05/31/10		4	H/I	1	8/01	62	2	8/6	86
05/31/10	A45		S						
05/31/10	A46		S						
05/31/10	A47		S						
06/01/10	A48		R						
06/01/10	A49		S						
06/02/10		5	H	2	8/10	69	3	8/15	76
06/11/10	A50		S						
06/11/10	A51		S						
06/13/10	A52		S						
06/14/10	A53		Q						
06/14/10	A54		S						
06/15/10		6	I/J	3	8/21	67	4	8/25	84
06/17/10	A55		S						
06/18/10		7	J	2					
06/18/10	A56		O						
06/19/10		8	H	3					
06/19/10	A57		D						
06/19/10	A58		D						
06/20/10		9	F	2	? *		5	9/21	55
06/23/10	A59		S						
06/23/10	A60		S						
06/24/10	A61		S						
06/24/10	A62		S						
06/25/10	A63		S						
06/25/10	A64		S						
06/27/10	A65		S						
06/29/10		10	P	2					
06/30/10	A66		N/P						
06/30/10		11	I	2					
07/01/10		12	O	3					
07/01/10	A67		S						
07/02/10		13	E/F	8	9/2	62	6	9/7	85
07/02/10	A68		S						
07/02/10	A69		S						
07/05/10	A70		J						
07/06/10		14	H/I	1					
07/06/10	A71		H/I						
07/07/10	A72		G/H						
07/07/10	A73		S						
07/08/10		15	F/G	1	9/7	61	7	9/12	65
07/08/10		16	I/J	2					

07/08/10	A74	N							
07/09/10	A75	S							
07/16/10	A76	C							
07/16/10		J	1	9/19	65	8	10/1	82	
07/22/10	A77	S							
07/23/10	A78	D							
07/23/10	A79	E							
07/23/10	A80	N							
07/23/10	A81	S							
07/24/10		K	2	9/28	66	9	10/1		
07/28/10	A82	S							
07/30/10		H	1						
07/31/10		H	1	10/3	64	10	10/7	72	
08/06/10	A83	S							
08/06/10	A84	S							
08/07/10	A85	S							
08/08/10	A86	S							
08/09/10		I/J	1	10/13	65	11	11/7	73	
08/10/10	A87	R							
08/10/10	A88	S							
08/15/10		I/J	3	10/15	61	12	10/20	76	
08/22/10	A89	S							
08/26/10		H	2	10/29	64	13	11/2	73	
08/30/10		G/H	1						
08/31/10		G	4						
09/01/10		I	1	11/2	62	14	11/7	77	
09/01/10		M/N	3						
09/02/10	A90	R							
09/02/10	A91	S							
09/04/10	A92	R							
09/04/10	A93	S							
09/07/10	A94	S							
09/16/10	A95	L							
09/17/10		H	1	11/21	65	15	11/26	86	
09/21/10	A96	S							
10/14/10	A97	R							

1060

Notes

- Nest 9 no hatch was observed, nest was dug up 33 days past it's expected due date
Nest 18 hatch was observed, exit area was not identified, no shells found when area was dug
Nest 21 Nest 21 was too close to Nest 26 to dig separately. Nest 21 was dug up 25 days after it had hatched, 4 of the dead were to decompos

Nov 15/10

found 55 empty shells washing out of dune east of last path down. Most recent nest in that location was 2007 Nest 12 - no hatch obse

2011

4/11	A1		S						
4/11	A2		S						
4/17	A3		S						
4/22	A4		S						
5/10	A5		S						
5/10	A6		S						
5/10	A7		S						
5/15	A8		S						
5/22	A9		S						
5/24	A10		S						
5/24	A11		S						
5/26	A12		S						
5/26	A13		S						
5/26	A14		S						
5/31	A15		RS						
6/2	A16		S						
6/2	A17		S						
6/16	A18		S						
6/17	A19		S						
6/19	A20		S						
6/22	A21		S						
6/24	A22		S						
6/25	A23		S						
6/26	A24		S						
6/28	A25		S						
6/28	A26		S						
7/8	A27		S						
7/12	A28		S						
7/17		1	I/J	2	9/17	62	1	21-Sep	69
7/18	A29		S						
7/18	A30		S						
7/19	A31		S						
7/24	A32		S						
7/24	A33		S						
7/31	A34		B/C						
8/1	A/35		E						

8/1		2	B	1					
8/1		3	L	2					
8/1		4	Q/R	1					
8/3		5	E	1	10/3	62	2	7-Oct	67
8/9	A36		S						
8/17		6	D/E	2					
8/18		7	M	3	10/20	63	3	24-Oct	70
8/20	A37		S						
8/28	A38		S						
8/28	A39		S						
8/28	A40		S						
9/3	A41		I						
9/4		8	B	1	11/6	63	4	9-Nov	53
9/9	A42		S						
9/9	A43		S						
9/9	A44		S						
9/9	A45		S						
									259

NOTES -

- #2 shallow excavation in sand bank near water's edge - washed out 8/07/11
- #3 shallow excavation - washed out by high surf
- #4 shallow excavation - washed out by high surf - 9/28/11
- #6 washed over by high surf - 9/10/11

2012

3/23	A1		S						
4/17	A2		S						
4/17		1	B	2	6/14		1	6/20	85
4/17		2	D/E	1					
4/24	A3		S						
4/26	A4		B/C						
4/26		3	B	1	6/28	63	2	7/27	91
4/28	A5		S						
4/30	A6		S						
5/1	A7		S						
5/4	A8		S						
5/4		4	S	2					
5/10	A9		S						
5/11	A10		S						
5/14	A11		C/D						

5/14		5	B	1					
5/15		6	C	1	7/15	61	3	7/27	78
5/27	A12		C						
5/27	A13		S						
5/28	A14		S						
5/29		7	S	2					
5/30		8	D	1					
5/30		9	E/F	2					
6/1	A15		S						
6/1		10	Q	1					
6/2		11	E/F	2					
6/2	A16		C						
6/3		12	B	1	7/30	57	4	8/29	102
6/15		13	B	2					
6/15		14	R	2					
6/16		15	G/H	2					
6/17		16	S	1					
6/18	A17		S						
6/20	A18		B						
6/20	A19		C						
6/20	A20		Q						
6/20	A21		S						
6/20		17	E	1					
6/20		18	F	1					
6/20		19	N/O	2					
6/21	A22		B						
6/21		20	C	3					
6/21		21	D/E	2					
6/21		22	L	2					
6/22		23	B	1	8/14	53	5	8/29	86
6/22	A23		C/D						
6/22	A24		O						
6/24		24	S	2	8/27	65	6	9/3	97
7/3		25	S	3					
7/4		26	E	4					
7/5		27	O	2					
7/8	A25		O						
7/8	A26		S						
7/10		28	I	2	9/13	65	7	9/23	101
7/16	A27		S						
7/20		29	L	2	9/27	69	8	10/4	91
7/26	A28		D						

7/26		30	F	2					
7/27		31	F	1					
7/27		32	F	4					
8/4	A29		N/O						
8/4	A30		Q						
8/5		33	O	3	10/7	63	9	10/14	77
8/8	A31		S						
8/9	A32		S						
8/15	A33		S						
8/16	A34		S						
8/20	A35		S						
8/21		34	G/H	3					
8/22		35	L	2					
8/23	A36		D						
8/24		36	O	1	10/29	66	10	11/5	75

883

Notes

nest 1
nest 2
nest 23
Hatch #4

found apr 26, not fresh - estimated hatch as calculated from 2 weeks prior to #3 excavations
a possible excavation, assuming it was dug same time as #1, very windswept
10 dead found in nest, 1 dead found at surface of exit, day after hatch
Aug 15 found 1 dead at surface

2013

4/22	A1		S						
4/27	A2		P/Q						
4/29	A3								
5/2	A4		P						
5/4	A5		S						
5/15	A6		R						
5/16		1	H	2					
5/17		2	L	1					
5/17		3	L	1					
5/18		4	F	2					
5/18	A7		J/L						
5/19		5	H	1	26-Jul	68	1	2-Aug	54
6/3		6	H	1					
6/3		7	H	1					
6/4	A8		S						

6/5		8	K	1					
6/5	A9		L						
6/6		9	H	2	5-Aug	67	2	19-Aug	87
6/7	A10		S						
6/7	A11		S						
6/9	A12		S						
6/9	A13		S						
6/11	A14		S						
6/11	A15		S						
6/11	A16		S						
6/14	A17		S						
6/16	A18		S						
6/16	A19		S						
6/19	A20		S						
6/21		10	F/G	3					
6/21	A21		I/J						
6/22		11	M	4					
6/22	A22		H/I						
6/23		12	L	4					
6/24		13	I/J	3	8/26	63	3	1-Sep	85
6/24	A23		R						
6/29	A24		S						
6/29	A25		S						
7/2	A26		S						
7/4	A27		S						
7/4	A28		S						
7/8	A29		S						
7/8	A30		N						
7/9		14	H	2					
7/9	A31		S						
7/10	A32		O/P						
7/10		15	K	4					
7/10		16	K/M	1					
7/11		17	H/I	3	9/10	61	4	22-Sep	89
7/12	A33		S						
7/12	A34		S						
7/15	A35		S						
7/20	A36		S						
7/20	A37		S						
7/25	A38		S						
7/25	A39		S						
7/26	A40		I						

7/26		18	K	1					
7/27	A41		M/N						
7/27		19	M/N	1	9/24	59	5	29-Sep	88
8/5	A42		S						
8/8	A43		S						
8/11		20	F	2	10/9	59	6	17-Oct	96
8/17	A44		S						
8/26	A45		K/M						
8/26		21	K	5	10/23	58	7	30-Oct	97

596

2014

4/17	A1		S						
4/20		1	N	2					
4/20		2	N	2	6/28	68	1	7/5	105
4/25	A2		N						
4/26	A3		N						
4/30	A4		S						
5/3	A5		S						
5/5	A6		R						
5/6		3	G/H	2	7/8	63	2	7/16	107
5/7	A7	4	S	2					
5/7	A8		Q/R						
5/7	A9		R						
5/7	A10		R/S						
5/9	A11		S						
5/11	A12		N/M						
5/12	A13		N/M						
5/14	A14		QR						
5/15		5	S	2					
5/18		6	B	1					
5/21	A15		S						
5/22		7	E/F	2					
5/22		8	S	1					
5/23	A16		Q						

5/26	A17		P/O						
5/27		10	D	1					
5/27		11	M	1	7/28	62	4	8/6	72
5/28		9	B	2					
5/29		12	L	1	7/27	59	3	9/14	64
6/1		13	P	2	8/3	63	5	8/17	100
6/1		14	S	3					
6/4	A18		S						
6/4		15	S						
6/5		16	C	2					
6/8		17	J	1	8/9	62	6	8/17	107
6/9		18	D/E	3					
6/10		19	P	2	8/10	61	7	8/17	86
6/12		20	L	4					
6/13		21	P	2					
6/14		22	I/J	4	8/15	62	8	8/27	80
6/16		23	M/N	1					
6/17		24	P	3					
6/19		25	R	3					
6/20		26	K/M	3					
6/22		27	K/M	5					
6/23		28	G/H	2	8/25	63	9	9/3	89
6/23		29	N/O	3	8/26	64	10	9/3	95
6/23		30	S	3					
6/28	A19		S						
6/29		31	M	1	8/29	61	11	9/3	88
7/1	A20		S						
7/2		32	S	2					
7/4		33	B/C	1					
7/4		34	M	4					
7/4		35	S	1					
7/5		36	D/E	1					
7/6	A21								
7/7		37	K	4	9/2	59	12	9/10	80
7/8		38	P/Q	6	9/2	57	13	9/10	98
7/9		39							
7/11		40	K	5					
7/12		41	S	5					
7/13	A22		D						
7/13	A23		M						
7/13		42	E	1					
7/14		43	G/H	7					

7/15		44	L	5	9/9	56	14	9/14	70
7/17		45	C	4					
7/18	A24		S						
7/22		46	K	2	9/17	58	15	9/24	101
7/22		47	S	4					
7/29		48	I/J	3	9/27	60	16	10/4	77
7/31		49	C	1					
8/10		50	D	3					
8/10		51	J	1	10/7	58	17	10/12	79
8/14		52	N	3	10/14	61	18		
8/22		53	K	2					
8/23		54	G	1	10/22	60	20	10/27	85
8/24		55	K	1	10/20	57	19	10/27	85

1668

Note Hatch #10 dead were very decomposed, only kept most intact - didn't note count
Hatch # 18 chose to not dig - very wet from surf and heavy rains, only a few tracks out, several days delay with heavy rain

2015

5/11		1	R	4					
5/12		2	C	3	7/16	65	1	22-Jul	76
5/24	1		S						
5/27	2		S						
5/28		3	C	1	7/28	61	2		
5/28		4	D	3					
5/29	3		Q/R						
5/29	4		D/E						
5/30		5	H	1	8/3	65	3	11-Aug	76
6/8	5		S						
6/8	6		S						
6/8	7		S						
6/13		6	M	1	8/16	64	4	21-Aug	68
6/14	8		S						
6/14	9		S						

6/27	10		N	
6/28	11		S	
7/5		7	D/E	1
7/5	12		S	
7/6		8	D/E	2
7/7		9	C	2
7/9	13		S	
7/12	14		E/H	
7/13	15		S	
7/14	16		S	
7/14	17		S	
7/14	18		S	
7/15	19		S	
7/15	20		S	
7/15	21		S	
7/22	22		S	
7/24	23		S	
7/24	24		S	
7/24	25		S	
7/25	26		S	
7/26	27		S	
7/27	28		F/H	
7/31	29		S	
8/13	30		S	
8/22	31		S	
8/22	32		S	
8/29	33		S	
8/29	34		S	
8/29	35		S	

Note hatch 3 - exit not found, nest under kiawe thicket at top of dune

2016

4/22	1		S	
4/22	2		S	
5/3	3		S	
5/3	4		S	
5/11	5		S	

5/11	6		S						
5/11	7		S						
5/11	8		S						
5/17	9		S						
5/21	10		S						
6/2	11		S						
6/2	12		S						
6/3		1	S	4					
6/4	13		S						
6/4		2	C/D	1					
6/6	14		S						
6/6		3	E	4					
6/6		4	S	3					
6/9		5	B/C	2					
6/10	15		S						
6/10		6		2					
6/11		7	S	1					
6/16	16		S						
6/16	17		S						
6/18	18		S						
6/25		8	S	2	8/20	56	1	8/26	97
6/26	19		S						
7/3	20		S						
7/3	21		S						
7/3	22		S						
7/5	23		S						
7/5	24		S						
7/7	25		S						
7/8	26 - FC		S						
7/10		9	S	2					
7/12	27		S						
7/12	28		S						
7/14	29		S						
7/14	30		S						
7/14	31		S						
7/14	32		S						
7/21	33		S						
7/22	34		S						
7/22	35		S						
7/22	36		S						
7/22	37		S						
7/22		10	P	1	9/17	57	2	9/24	94

7/23	38		S						
7/30	39		S						
7/30	40		S						
8/1	41		S						
8/1	42		S						
8/4	43		S						
8/4	44 - FC		S						
8/4		11	E/F	3					
8/5	45		S						
8/5		12	O/P	2	10/5	61	3	10/11	80
8/14	46		S						
8/14	47		S						
8/14	48		S						
8/15	49		S						
8/15	50		S						
8/15	51		S						
8/18	52 - FC		N/O						
8/18		13	R/S	2					
8/19		14	O	3	10/16	58	4	10/23	94
9/1	53		S						
9/1	54		S						
9/1	55		S						
9/17	56		S						
9/30	57		S						
10/1	58		S						
10/3	59		S						
10/16	60		S						

Note trip 2 - washed out
trip 3 - washed out
trip 5 - washed out
trip 6 - washed out
trip 7 - washed over repeatedly by high tides
trip 8 - found 6/25, last time beach checked was 6/23
trip 9 - washed over by high tides and large surf
Hatch 2 - 7 of the 9 live hatchlings were found near the surface very tangled in grass roots

2017

4/5	FC1		M						
4/5	B1		S						
4/7	B 2,3,4,5		S						
4/12	B6		S						
4/14	B7,8,9		S						
4/18	B10,11	1	S	3					
4/22	B12		S						
4/23	B13,14,15,16,17		S						
4/27	B 18, 19		S						
5/6	B20		S						
5/8	B21, 22		S						
5/10	B23		S						
5/12	B24		S						
5/13	B25,26,27,28		S						
5/14	B29,30,31,		S						
5/17	B32,33,34,35		S						
5/18	FC2		S						
5/21	B36,37		S						
5/22		2	M	1	7/22	61	1	8/4	75
5/23	B38,39		S						
5/24	B40,41,42,43		S						
5/26	B44		S						
5/28	B45		S						
5/30	B46,47		S						
6/1	B48,49,50,51		S						
6/4	B52,53,54		S						
6/10	B55		S						
6/11	B56,57,58		S						
6/13	B59,60,61		S						
6/14	B62		S						
6/15	B63		S						
6/20	B64,65		S						
6/20		3	I/J	1	8/20	60	2	9/1	67
6/27	B66,67,68		S						
7/2	B69		O/P						
7/3		4	I/J	1		60	3	9/6	67
7/14	B70		S						
7/18		5	H	1	9/11	55	4	9/19	74
7/19	B71		S						
7/20	B72,73		S						
7/23	B74		S						
7/26	B75,76		S						

7/30	B77,78		S						
8/2		6	J / K	2	9/28	57	5	10/7	72
8/6	B79		S						
8/12	B80		S						
8/15		7	J	2	10/14	60	6	10/28	74
8/19	B81		S						
8/22	B82		S						

2018

5/10/2018	1B, 2B	Q/R
5/13/2018	3B	S
5/20/2018	4B, 5B, 6B, 7B	S
5/22/2018		
5/22/2018		
5/22/2018	8B, 9B, 10B	S
5/24/2018	11B, 12B, 13B, 14B, 15B	S
5/27/2018	16B, 17B, 18B, 19B, 20B	S
5/28/2018	21B, 22B, 23B	S
5/31/2018	24B, 25B, 26B	S
6/3/2018	27B	S
6/7/2018	28B, 29B, 30B	S
6/10/2018	31B, 32B, 33B, 34B, 35B	S
6/12/2018	36B, 37B, 38B, 39B	S
6/13/2018		
6/14/2018	40B	S
6/15/2018	41B, 42B	S
6/17/2018	43B, 44B, 45B	S
6/19/2018		
6/21/2018	46B, 47B, 48B	S
6/24/2018	49B, 50B, 51B, 52B	S
6/26/2018	53B	S
6/27/2018	54B	S
7/1/2018		
7/3/2018		

7/6/2018		
7/12/2018		
7/15/2018	55B	S
7/19/2018		
7/22/2018		
7/26/2018	56B, 57B, 58B, 59B	S
7/29/2018		
8/5/2018	60B	S

Spoiled	Dead	Live	successful Hatches	track counts	Dead found outside of nest	remains given to George Spoiled	remains given to George Dead	Date sent
---------	------	------	--------------------	--------------	----------------------------	---------------------------------	------------------------------	-----------

d from original field notes

occasion 9/25/86

s for nesting date

ns

2

1

61

no count
many
big hatch

2

64

60

74

198

with Sept observations of hatches

1

74

3

70

no cnt

4

75

no cnt

55

1

73

ate to be 60 prior to hatch date

218

shells thought possibly a 1994 nest not detected by monitors

massive'

gged turtle, next am 4th exc filled and turtle gone
ation date in field notes - see Joan Yoshioka's map
atch dates
es

36

18+12

$$6+9+14+2+1+1$$

$$60+10$$

$$44$$

"massive" - 80 ?

$$80+$$

$$65+2$$

$$70+$$

large - 70 ?

$$45$$

$$**625**$$

59
many - 60?

70+

2
51

29
7 *

32**
many - 60?
65

60+

60-70

1

78

560

6+31 *

63
14+17

2

49+4+6+2

64+1

1

40

38+3

39

no cnt

28

408

$$70+2$$

15

65

$$50+2^{**}$$

$$22+15+2+2+3+1$$

2

70

$$8+32$$

$$38$$

$$**247**$$

1

40+1

1

40

64

52

55

12

1+6

25

58

2

79

40

396

11

2

2

79

16+2

11

2

2

4

1

77

39+2

4

1

2	1	75	50	2		
3		77	66	3		
3		72	15	3		
<hr/>						
23	3	3	380	192	23	3

arked - hatch tracks erased by heavy rain

o exit area

l			*	
3	1	45	3	07/24/07
2		75	2	07/24/07

4			60		4		09/05/07	
4		1	82		4		09/05/07	
2			78	1	2	1	09/05/07	
3	2		81		3	2	09/05/07	
1			77	1	1	1	09/05/07	
3			78	1	3		09/05/07	dead hatchling four

1			80	3	1	3
2			76		2	
2			70		2	
3		2	76		3	
2			82	2	2	2
3	26	1	52		3	26
35	28	5	1012	8	35	35

and 26 dead approx 12" lower

2 09/23/08 2 dead found on be:

2 2 1 63 2 2 12/01/08

57 1 20 57 12/01/08 57 developed/ not h

2 59 2 83 2 59 2

14 1 2 55 14 1 09/16/09

75 1 1 09/16/09

1 4 70 1 4 09/16/09

1 3 84 4 3 09/16/09 nest washed out, cc

2 9 2 54 2 9 09/16/09

66

5 56 5 11/18/09

3 3 1 72 3 3 11/18/09
3 5 63 3 5 11/18/09

12

51

12

11/18/09

3

8

70

3

8

11/18/09

3

5

67

3

11/18/09

47

30

10

783

1

51

31

on recorded

3

3

67

3

07/25/10

2 84 1 2 1 09/21/10

76

1 1 1 82 1 1 09/21/10

55

5 2 78 5 2 09/21/10

4 4 16 57 4 4 09/21/10

1 81 1 11/29/10

72

2 12 4 59 2 8 11/29/10 4 of the dead were t

3 1 2 72 3 1 11/29/10

3 70 3 11/29/10

4 1 73 4 11/29/10

7 79 7 11/29/10

35 20 27 1005 1 35 17

ed to keep

rved for that nest

1

68

1

12/01/11

3 1 2 63
70

3 1 12/01/11

5 48

5 12/01/11

8 2 2 249

1 84

1 11/27/12

1 90

1 11/27/12

4 2 74 4 11/27/12

3 1 97 1 3 2 11/27/12

5 10 6 71 1 5 11 11/27/12

21 1 75 21 1 11/27/12

5 3 2 93 5 3 11/27/12

1 90 1

2 1 75

2 11/27/12

2 1 1 72

2 1 11/27/12

45 16 12 821

2

45

18

6 1 1 47

6 1 11/04/13

2 15 18 70

2 15 11/04/13

3 82

3 11/04/13

1 2 86

1 2 11/04/13

4	1		83	3	1	11/04/13
---	---	--	----	---	---	----------

3		2	93	3		11/04/13
---	--	---	----	---	--	----------

4	4		89	4	4	11/04/13
---	---	--	----	---	---	----------

23	23	21	550	22	23	
----	----	----	-----	----	----	--

	2	2	103		2	11/17/14
--	---	---	-----	--	---	----------

7	10	3	90	7	10	11/17/14
---	----	---	----	---	----	----------

19			53		18		11/17/14
4			60		4		11/17/14
65	1		34	1	8	2	11/17/14
2	5		100		2	5	11/17/14
21			65		6		11/17/14
6	1		73		6	1	11/17/14
21	1	1	67		21	1	11/17/14
1	59	1	35		1	?	11/17/14
5			83		5		11/17/14
20			60		19		11/17/14
	15	1	83			15	11/17/14

3 1 66

2 4 1 95

21 56

18 61

33 52

4 81

9/8 99 9 1317
plus 1 dead outside of nest

3 1 11/17/14

2 4 11/17/14

21 11/17/14

18 11/17/14

33 11/17/14

4 11/17/14

178 29 +

ain between hatch and ability to dig

76

1 3 23 72

4 1 64

1 3 10/30/15

4 10/30/15

5 3 24 212

5 3

4

93

4

10/23/16

2

9

92

2

10/23/16

6 2 74

6 10/23/16

3 4 1 87

3 4 10/23/16

13 6 12 346

13 6

4 75

9 58

1 66

4 70

8

1

4

1 egg was damage

3

69

3

8

66

8



incubation time suggests 2 separate nests

d on beach was not kept

ach from #1

atched

collected 4 undeveloped eggs from water

too decomposed to keep

ed in removing it from the nest

Kawa'aloa Bay Green Sea Turtle Nesting Survey Summary 1986 -2018

Date	first trip	first nesting trip	last nest	last trip in	first hatch	last hatch	basking tracks	false crawls	Nesting Trips In	Hatches	% Hatched
1986		7/28	9/18						3	1	33
1987								2			
1988	7/4	7/29	8/29	8/29	9/27	10/26		2	4	3	75
1989	7/25			7/25				1			
1990											
1991	6/19	6/19	9/1	9/2	9/1	10/29		1	4	3	75
1992	6/23	6/23	7/24	7/24	9/22	9/22			2	1	50
1993	5/31	5/31	9/2	9/2	7/31	10/13		2	8	3	38
1994											
1995	5/20	5/20	8/4	8/4	8/8	9/17		2	17	5	29
1996	7/15	7/15	7/18	7/18					2		
1997	4/30	4/30	9/2	9/2	7/15	9/30		13	25	6	24
1998											
1999	5/25	5/25	8/29	8/29	7/25	10/22		6	26	11	42
2000											
2001	5/8	5/8	8/20	8/20	7/24	10/18		1	25	13	52
2002											
2003	5/17	5/17	8/22	8/22	7/16	10/19		6	27	13	48
2004	6/5	6/5	9/25	10/8	8/17	11/25		2	16	6	38
2005	5/1	5/1	9/7	9/7	8/3	10/15		20	37	12	32
2006	4/25	5/23	9/20	11/19	8/4	11/24	28	4	17	8	47
2007	5/10	5/10	8/30	8/30	7/17	11/2	1	13	28	14	50
2008	4/27	5/24	9/13	10/24	7/28	11/4	9	3	7	4	57
2009	5/20	5/30	9/10	10/4	8/9	11/9	18	18	30	12	40
2010	4/2	5/15	9/17	10/14	7/25	11/21	87	9	28	15	54
2011	4/11	7/17	9/4	9/9	9/17	11/6	43	2	8	4	50
2012	3/23	4/15	8/24	8/24	6/14	10/29	18	18	36	10	28
2013	4/22	5/19	8/26	8/26	7/26	10/23	36	9	21	7	33
2014	4/17	4/20	8/24	8/24	6/28	10/20	15	9	55	20	36
2015	5/11	5/11	7/7	8/29	7/16	8/16	30	5	9	4	44
2016	4/22	6/3	8/19	10/16	8/20	10/16	57	3	14	4	29

2017	4/5	4/18	8/15	8/22	7/22	10/14	82	2	7	6	86
2018	5/10			8/5			60				

Data from nests dug up after hatching

Average Incubation	nests dug up	eggs laid	average lay	successful hatch count	average hatch
60	1	62	62	61	61
58	3	200	67	198	66
61	1	75	74	74	74
61					
59	3	226	75	218	73
62					
63					
62	1	79	79	78	78
61					
58	2	152	76	135	68
60	1	81	81	79	79
62	5	406	81	380	76
62	14	1073	77	1012	72
65	2	144	72	83	42
62	12	860	72	783	65
65	14	1060	76	1005	72
63	4	259	65	249	62
62	10	883	88	821	82
62	7	596	85	550	79
61	19	1668	88	1317	69
64	3	220	73	212	71
58	4	365	91	346	87

59

6

429

72

404

67

2012

Preserve Beaches East & West of Kalani Point

Date	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch Date	Hatch #	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/ undeveloped</u>	<u>Dead</u>	<u>Live</u>
6/13/12		West K		12-Aug							
6/16/12		West K		15-Aug							
6/28/12	628	West K	1	27-Aug	28-Aug	1	3-Sep	90	10	2	1
7/9/12	709	East K	1	7-Sep							
7/11/12	710	West K	1	8-Sep							
		East K			22-Sep	2	4-Oct	94	27		
		West K			24-Sep	3				1	
8/16/12	816	West K	4	15-Oct	15-Oct	4	5-Nov	81	1		
8/27/12	827	East K	3	26-Oct							
8/31/12	831	West K	3	30-Oct	5-Nov	5	15-Nov	72	2		
								337	40	3	1

Notes

unable to record exact location of excavations reported June 13 & 16

Hatch 2 from unrecorded nest

Hatch 3 from unrecorded nest, found dead hatchling beside crab hole. Many crab & hatchling tracks, unable to find exit area of nest

2013 - no nesting activity reported

2014

Preserve Beaches East & West of Kalani Point

Date found	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch Date	Hatch #	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/ undeveloped</u>	<u>Dead</u>	<u>Live</u>
5/1/14	501			29-Jun							
5/22/14	522	West K	1	21-Jul							
6/4/14	604	East K	1	3-Aug							
6/4/14	604 -2	West K	1	8/1 ?							
6/17/14	617	East K	2	15-Aug							
7/1/14	701	East K	1	29-Aug	28-Aug	3	10-Sep	82	4		

7/1/14	701	West K	4	28-Aug	12-Aug	1	22-Aug	63	4		
7/1/14	701- 2	West K	1	28-Aug	14-Aug	2	22-Aug	91	2		2
7/8/14	708	West K	4?	2-Sep							
unrecorded nest		East K			9-Sep	4	17-Sep	59			
unrecorded nest		West K			9-Sep	5	17-Sep	116	35	3	
7/16/14	716	West K	1	14-Sep	11-Sep	6	17-Sep	67	3	1	
7/26/14	726	West K	1	24-Sep	23-Sep	7	28-Sep	64	1	2	
7/29/14	728 - 1	East K	1	27-Sep	23-Sep	8	28-Sep	88	6		
7/29/14	728 - 2	East K	2	27-Sep	23-Sep	9	23-Sep	65	8	3	
8/12/14	812	East K	2	11-Oct	9-Oct	10	17-Oct	77	6		
8/14/14	814	East K	1	13-Oct	14-Oct	11	17-Oct	84	2		
8/19/14	819	West K	3	18-Oct							
8/28/14	828	East K	1	27-Oct	25-Oct	12	30-Oct	64	4		1
								920	75	9	3

2015

Preserve Beaches East & West of Kalani Point

Date found	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live
7/2/15	7215	Ekalani	2	8/31	10-Sep	2	9/17	73	1	1	
7/2/15	7215-2	Ekalani	1	8/29 ?							
7/7/15	7715	Wkalani	1	8/26 ?							
7/7/15	7715	Wkalani	1	washed out							
7/14/15	71415	Ekalani	2	9/4 ?	6-Sep	1	17-Sep	71	3		
7/14/15	71415	Wkalani	2	9/9 ?							
7/30/05	73015	Ekalani	2	9/28	29-Sep	3	5-Oct	76	1		
8/11/15	81115	Ekalani	3	10/10	5-Oct	4	13-Oct	78	3		
								298	8	1	

2016

Preserve Beaches East & West of Kalani Point

No nesting activity was observed.

9/23 a dead turtle was found washed up on the beach West of Kalani Point with no visible sign of cause of death.

The top shell measured 19 7/8 inches along the longest point at the mid line.
 Tissue samples were taken and given to George Balazs 10/23/16

2017

Preserve Beaches East & West of Kalani Point

Date found	EAST		# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live
	Trip #	Map Location									
5/3/2017	1	L / N	1	7/2							
5/23/17	2	L / K	2	7/22							
6/4/17	3	L / N	4	8/3							
6/6/17	4	L / N	1	8/4	8/2	1	9-Aug	53	2	1	
6/6/17	5	I	1	8/5	8/3	2	9-Aug	68	3		
6/21/17	6	L / K	1	8/20							
7/4/17	7	L / K	1	9/2							
7/5/17	8	L / N	3	9/3							
7/18/17	9	L / K	3	9/16							
8/2/17	10	L / N	1	10/1							
8/15/17	11	L	2	10/14							
8/19/2017	12	L/N	1	10/18							
								121	5	1	

Date found	WEST		# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live
	Trip #	Map Location									
3/19/17	1	D	2	5/18							
4/5/17	2	D	2	6/2	6/6	1	6/11	96	1	1	
4/22/17	3	D	1	6/21	6/25	2	7/2	87	3		
4/22/17	4	C / D	3	6/21							
4/22/17	5	C	1	6/21							
5/5/17	6	C / D	1	7/4							
5/20/17	7	C / D	1	7/19							
5/20/17	8	C / D	1	7/19							
5/23/17	9	A	2	7/22	7/18	3	8/4	55		1	
6/3/17	10	C	1	8/2	7/27	4	8/20				
6/6	11	A	2	8/5							
6/16	12	C	1	8/15	8/12	5	8/20	97	2		
6/20	13	C	2	8/19							

6/20	14	A	2	8/19	8/18	6		10/18	68	3
6/30/17	15	C	1	8/29						
7/1/2017	16	D	1	8/29						
7/4	17	A	2	9/2	8/29	7		10/18	65	7
7/19	18	A	2	9/17	9/13	8		10/18	62	1
8/3	19	A	1	10/2						

								530	17	2	
								651	22	7	0

Totals for East & West Kalani 2017

Notes

- W 1 found by visitors
- W 2 looked to be 1 or 2 days old/ hatch found 6/6 - looked to be 1 day old
- W 3,4,5 looked to be 1 or 2 days old/ 1 of the 3 undeveloped was a pea egg
- W 6 fresh - beach checked 5/4
- W 7 still digging on way out
- W 13 1 day old, staked both exc, unable to tell which was last
- W 16 could have been dug as much as 4 days earlier

- E 1 Mac found exc 5/3 monitors unable to find it to mark, Mac put in stick in gen area of exc
- E 3 still digging on way out
- E4 1 day old
- E 6 washed over by King tides

2018 *Note - no nesting activity observed

2019

Preserve Beaches East & West of Kalani Point

Date found	EAST		# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/undeveloped	Dead	Live
	Trip #	Map Location									

Date found	WEST										
	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/undeveloped</u>	<u>Dead</u>	<u>Live</u>
								0	0	0	
								0	0	0	
Totals for East & West Kalani 2018								0	0	0	0

**Successful
Hatches**

**remains sent to
George**

78

27-Nov

67

27-Nov

80

27-Nov

70

27-Nov

295

**Successful
Hatches**

**remains sent to
George**

78

17-Nov

59	17-Nov
89	17-Nov
59	
78	17-Nov
64	17-Nov
61	17-Nov
82	17-Nov
54	17-Nov
71	17-Nov
82	17-Nov
60	17-Nov

837

Successful
Hatches

71	Oct 30/15
68	Oct 30/15
75	Oct 30/15
75	Oct 30/15

289

Successful
Hatches

50
65

115

Successful
Hatches

94
84

54

nest not found

95

65 delay digging - overlapping nesting activity

58 delay digging - overlapping nesting activity

61

511

626

Successful
Hatches

_____ 0

Successful
Hatches

_____ 0

_____ 0

hing

successful
average
hatch

73.75

69.75
72.25

69.5