map locations are estimates from fields notes - Also to note the nest numbering in some yrs has been changed from original field notes

Date	False crawls & Basking tracks	Nesting trip #	Map Location	# of Pits	Hatch Date	Days Incubated	Hatch #	Dig Date	Dig Count	Spoiled	Dead	Live	successful Hatches	track counts	Dead found outside of nest	remains given to George: Spoiled	remains given to George: Dead	Date sent	
1986							beach checked only on one occasion 9/25/86												
07/28/86		**1**	**P**	**?**	**9/25**		**1**	**nated incubation of 60 days for nesting date**							**2**				
09/18/86		2	O	3				and 6 excavations											
09/18/86		**3**	P	4															
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							no count					
08/13/88		3	P/Q	5	10/08/88	66	2	12/03/88	62	1			61	many					
08/29/88		**4**	H-J	2	10/26/88	59	**3**							big hatch					
1989																			
07/25/89	A1		R/S																
1990		- no activity																	
1991																			
6/19/1991		1*		2															
07/04/91		2			09/01/91	59	1	01/16/92	64				64						
07/21/91		3			09/13/91	55	2	10/09/91	60				60						
09/01/91		**4**			10/29/91	59	**3**	01/21/92	76	2			74						
09/02/91	A1												**198**						
		* this was observed by visiting park ranger, Joan's field notes are missing pages, starts with Sept observations of hatches																	
1992																			
06/23/92		1*	Q																
7/24/1992**		**2**	P/Q	7	9/22/92	61	**1**	09/26/92	75		1		74						
		* 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	3			70	no cnt					
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	4			75	no cnt					
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															incubation time suggests 2 separate nests
7/06/95***		10	L/N	?	9/5	61	4 **												
7/6/95 ***		11	I	2	9/2	58	3							55					
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	1			73						
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 to be 60 prior to hatch 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											**218**						
		Dr Langer found nest (no date) near East end of Bay exposed by wind against the dune - old hatached egg shells thought possibly a 1994 nest not detected by monitors																	

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	massive'
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 tagged turtle, next am 4th exc filled and turtle gone						
		** these were observed by TNC staff, not included in field notes - confused with A1 & A2 - had wrong observation date in field notes - see Joan Yoshioka's map						
		*** field notes missing data for 5/14 - 6-13 - Joan away - these excavation dates are estimates made from hatch dates						
		**** notes unclear as to which nest the hatch belonged to, noted as possible hatch - report lists only 6 hatches						
1998		no activity						
1999								
05/25/99		1	Q	2				
05/25/99		2	O	3	7/25	61	1	36
05/25/99		3	I	1				
05/25/99		4	G	?	8/10	76	3	18+12
06/05/99		5	N	2	8/3	60	2	6+9+14+2+1+1
06/09/99	A1		M/N					
06/11/99		6	Q	3				
06/13/99		7	O	1	8/14	63	4	60+10
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	44
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	"massive" - 80 ?
7/11/1999		16	E	3	9/8	60	6	80+
7/25/1999		17	H	2	9/25	63	8	65+2
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	70+
8/11/1999	A4		J					
8/12/1999	A5		S					
8/12/1999		23	H/I	3	10/12	62	10	large - 70 ?
8/21/1999	A6		N					

8/21/1999		24	N	2								
8/22/1999		25	R/S	1	10/22	62	**11**					45
8/29/1999		**26**	L	1								
												625
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					59
5/26/01		4	O		7/28	65	2					many - 60?
5/27/01		5	R/S									
6/8/01		6	J		8/8	62	3					70+
6/10/01		7	J									
6/10/01		8	J/K		8/12	64	4					2
6/14/01		9	K		8/17	65	5					51
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					29
6/27/01		15	O		8/26 -8/31	61	7					7 *
6/27/01	A1		O									
6/27/01		16	R									
7/9/01		17	L		9/7 - 9/10	61	8					32**
7/12/01		18	H/I		9/10	61	9					many - 60?
7/22/08		19	H/I		9/20	61	10					65
7/22/01		20	J									
7/26/01		21	H/I		9/24	61	11					60+
8/10/01		22	H									
8/11/01		23	I		10/11	63	12					60-70
8/19/01		24	E									
8/20/01		**25**	H		10/18	60	**13**	30-Oct	79	1	78	
		* 1 dead hatchling found on sand										**560**
		** 9 dead hatchlings found on sand										
2002		no turtle activity										
2003												
5/17/2003		1		2	7/16 -7/17	60	1					6+31 *
6/1/2003		2		4								
6/2/2003		3		3	8/4	63	3					63
6/2/2003		4		4	7/30 - 7/31	58	2					14+17
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					2
6/29/2003		11		2								
6/30/2003		12		1	8/27 -9/5	58	6					49+4+6+2
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					64+1
7/15/2003		17		1	9/17	64	8					1
7/15/2003	A4											
7/25/2003		18		2	9/25	63	9					40
7/26/2003		19		2								
7/29/2003	A5											
7/29/2003		20		1	9/25 - 9/30	58	10					38+3
7/30/2003		21		3								
7/30/2003	**A6**											
8/1/2003		22		1								
8/6/2003		23		1	10/16	71	11					39
8/7/2003		24		2	10/6	60	12					no cnt
8/22/2003		25		1								
8/22/2003		26		2	10/19	58	**13**					28
8/22/2003		**27**		3								
		* found 4 dead hatchlings on sand										
												408
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					70+2

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	15	65	
7/19/04		10	B	5								
7/20/04		11	G	3	9/15 - 9/30	57	3					50+2 **
8/5/04		12	D	1								
8/17/04		13	D/E	2	10/9 - 10/15	54	4					22+15+2+2+3+1
8/30/04		14	D	3								
9/11/04		15	E/F	2	11/10 - 11/2	61	5					8+32
9/25/04		**16**	D/E	2	11/25	62	**6**	Dec	72	2	70	38
10/8/04	A2											**247**

* hatch #2 - 8/14 found nest washing out, moved eggs to higher location, hatch was not observed
** Htach #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					1
5/24/2005		15	R	1								
5/25/2005		16	H/I	1	7/25	62	1					40+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					1
6/14/2005	A12		J/K									
6/14/05*		*	**J/K**		**8/12**	**60***	**4**					**40**
6/14/05*		*	**J**		**8/12**	**60***	**5**					**64**
6/25/2005		20	A	2								
6/26/05*		*	**J/L**		**8/24**	**60***	**6**					**52**
6/28/2005		21	G	2	8/25	59	7					55
6/30/05*		*	**L**		**8/26**		**8**					**12**
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					1+6
7/23/2005		24	J	3	9/21	60	10					25
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					58
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	81	2	79	40
8/21/2005	A18		L/M									
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								**396**

* 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**	**11**	**2**	**2**	**79**	**16+2**			**11**	**2**	
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					2					
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	4	1		77	39+2			**4**	**1**	
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	2		1	75	50			**2**		
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	3			77	66			**3**		
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	3			72	15			**3**		
10/31/2006	A30		R																
11/18/2006	A31		S																
11/19/2006	**A32****		R																
									406	**23**	3	**3**	**380**	**192**			**23**	**3**	

	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 - hatch tracks erased by heavy rain
*	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 exit area

** 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**	**3**		**1**	**45**				**3**		07/24/07	
05/22/07	A1		N																	
05/22/07		**2**	**Q**	**2**	**7/26**	**65**	**2**	**07/27/07**	**77**	**2**			**75**				**2**		07/24/07	
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**	**4**			**60**				**4**		09/05/07	
06/05/07	A4		B																	
06/06/07		**7**	**K**	**1**	**8/7**	**62**	**4**	**08/12/07**	**86**	**4**		**1**	**82**				**4**		09/05/07	
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**	**2**			**78**		**1**		**2**	**1**	09/05/07	
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**	**3**	**2**		**81**				**3**	**2**	09/05/07	
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**	**1**			**77**		**1**		**1**	**1**	09/05/07	
07/03/07		**15**	**H**	**2**	**8/30**	**59**	**8**	**09/05/07**	**81**	**3**			**78**		**1**		**3**		09/05/07	dead hatchling found on beach was not kept
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																
0717/07		20	F	2																
07/17/07		21	I	1																
07/18/07		**22**	**J**	**2**	**9/13**	**57**	**9**	**09/17/07**	**81**	**1**			**80**		**3**		**1**	**3**		
07/31/07		**23**	**I**	**1**	**9/29**	**60**	**10**	**10/03/07**	**78**	**2**			**76**				**2**			
08/01/07		**24**	**M**	**1**	**9/29**	**59**	**11**	**10/03/07**	**72**	**2**			**70**				**2**			
08/15/07		25	G	6																
08/16/07		**26**	**G/H**	**1**	**10/14**	**60**	**12**	**10/19/07**	**79**	**3**		**2**	**76**				**3**			

08/16/07		**27**	**L**	**1**	**10/15**	**61**	**13**	**10/19/07**	**84**	**2**			**82**	**2**	**2**	**2**		
08/30/07		**28**	**I/J**	**3**	**11/2**	**64**	**14 ****	**11/8/07**	**81**	**3**	**26**	**1**	**52**		**3**	**26**		
									1073	**35**	**28**	**5**	**1012**	**8**	**35**	**35**		

* 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 and 26 dead approx 12" lower

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

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

2008

04/27/08	A1		S															
05/01/08	A2		S													**2**	09/23/08	2 dead found on beach from #1
05/24/08		**1**	**P**	**1**	**7/28**	**66**	**1**	**7/31/08**	**67**	**2**	**2**	**1**	**63**	**2**	**2**		12/01/08	
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**		**57**	**1**	**20**		**57**		12/01/08	57 developed/ not hatched
9/10/2008	A11		S															
9/13/2008		7	S	1														
10/24/2008	A12		S															
									144	**2**	**59**	**2**	**83**	**2**	**59**	**2**		

Nest #	**Notes**
1	ɔ apparent injuries - found the morning after the hatch
2	area was not clear, unable to find shells
4	ɔ exit area visible, 10/09 1 clear track , unable to find shells
6	he 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 Kawaaloa 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	AI		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**	**14**	**1**	**2**	**55**		**14**	**1**	09/16/09	
06/07/09	A6	3	E/F	1														
06/08/09		**4**	**G**	**2**	**8/9**	**62**	**1**	**8/14**	**75**				**75**	**1**		**1**	09/16/09	
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**	**1**	**4**		**70**		**1**	**4**	09/16/09	
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?											**4**			nest washed out, collected 4 undeveloped eggs from water
07/04/09		**9**	**I**	**2**	**9/4**	**62**	**4**	**9/9**	**88**	**1**	**3**		**84**		**1**	**3**	09/16/09	
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**	**2**	**9**	**2**	**54**		**2**	**9**	09/16/09	
07/14/09	A21		N															
07/15/09	A22		H															
07/18/09		**12**	**K**	**3**	**9/19**	**63**	**6**	**9/24**	**66**				**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**	**5**			**56**		**5**		11/18/09	
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**	**3**		**1**	**72**		**3**		11/18/09	
08/13/09		**20**	**J**	**3**	**10/13**	**61?**	**8**	**10/16**	**71**	**3**	**5**		**63**		**3**	**5**	11/18/09	
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**	**12**			**51**		**12**		11/18/09	
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**	**3**	**8**		**70**			**3**	**8**	11/18/09
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**	**3**		**5**	**67**			**3**		11/18/09
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	**47**	**30**	**10**	**783**		**1**	51	31	

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 recorded
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 Schoals

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 Kawaaloa 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		1	I	2														
05/16/10		**2**	**K**	**3**	**7/25**	**70**	**1**	**7/29**	**70**	**3**		**3**	**67**			**3**		07/25/10
05/17/10	A37		S															
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		3	G H	2														
05/31/10		**4**	**H/I**	**1**	**8/01**	**62**	**2**	**8/6**	**86**	**2**			**84**		**1**	**2**	**1**	09/21/10
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**				**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**	**1**	**1**	**1**	**82**			**1**	**1**	09/21/10
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**				**55**			**35**	**17**		
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**	**5**	**2**		**78**			**5**	**2**	09/21/10	
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**	**4**	**4**	**16**	**57**			**4**	**4**	09/21/10	
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		**17**	**J**	**1**	**9/19**	**65**	**8**	**10/1**	**82**	**1**			**81**			**1**		11/29/10	
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		**18**	**K**	**2**	**9/28**	**66**	**9**	**10/1**											
07/28/10	A82		S																
07/30/10		19	H	1															
07/31/10		**20**	**H**	**1**	**10/3**	**64**	**10**	**10/7**	**72**				**72**						
08/06/10	A83		S																
08/06/10	A84		S																
08/07/10	A85		S																
08/08/10	A86		S																
08/09/10		**21**	**I/J**	**1**	**10/13**	**65**	**11**	**11/7**	**73**	**2**	**12**	**4**	**59**			**2**	**8**	11/29/10	4 of the dead were too decomposed to keep
08/10/10	A87		R																
08/10/10	A88		S																
08/15/10		**22**	**I/J**	**3**	**10/15**	**61**	**12**	**10/20**	**76**	**3**	**1**	**2**	**72**			**3**	**1**	11/29/10	
08/22/10	A89		S																
08/26/10		**23**	**H**	**2**	**10/29**	**64**	**13**	**11/2**	**73**	**3**			**70**			**3**		11/29/10	
08/30/10		24	G/H	1															
08/31/10		25	G	4															
09/01/10		**26**	**I**	**1**	**11/2**	**62**	**14**	**11/7**	**77**	**4**		**1**	**73**			**4**		11/29/10	
09/01/10		27	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		**28**	**H**	**1**	**11/21**	**65**	**15**	**11/26**	**86**	**7**			**79**			**7**		11/29/10	
09/21/10	A96		S																
10/14/10	A97		R																
									1060	**35**	**20**	**27**	**1005**		**1**	**35**	**17**		

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 decomposed to keep
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 observed for that nest

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**		**1**		**68**			**1**		12/01/11
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**	**3**	**1**	**2**	**63**		**3**	**1**	12/01/11	
8/9	A36		S															
8/17		6	D/E	2														
8/18		**7**	**M**	**3**	**10/20**	**63**	**3**	**24-Oct**	**70**				**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**	**5**			**48**		**5**		12/01/11	
9/9	A42		S															
9/9	A43		S															
9/9	A44		S															
9/9	A45		S															
									259	8	2	2	249					

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**	**1**			**84**		**1**		11/27/12	
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**	**1**			**90**		**1**		11/27/12	
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**	**4**		**2**	**74**		**4**		11/27/12	
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**	**3**	**1**		**97**	**1**	**3**	**2**	11/27/12	
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**	**5**	**10**	**6**	**71**	**1**	**5**	**11**	11/27/12	
6/22	A23		C/D															
6/22	A24		O															
6/24		**24**	**S**	**2**	**8/27**	**65**	**6**	**9/3**	**97**	**21**	**1**		**75**		**21**	**1**	11/27/12	
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**	**5**	**3**	**2**	**93**		**5**	**3**	11/27/12	
7/16	A27		S															
7/20		**29**	**L**	**2**	**9/27**	**69**	**8**	**10/4**	**91**	**1**			**90**		**1**			

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**	**2**		**1**	**75**		**2**		11/27/12
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**	**2**	**1**	**1**	**72**		**2**	**1**	11/27/12
									883	**45**	**16**	**12**	**821**	**2**	**45**	**18**	

Notes

nest 1	found apr 26, not fresh - estimated hatch as calculated from 2 weeks prior to #3 excavations
nest 2	a possible excavation, assuming it was dug same time as #1, very windswept
nest 23	10 dead found in nest, 1 dead found at surface of exit, day after hatch
Hatch #4	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**	**1**	**1**	**47**		**6**	**1**	11/04/13
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**	**2**	**15**	**18**	**70**		**2**	**15**	11/04/13
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**	**3**			**82**		**3**		11/04/13
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**	**1**	**2**		**86**		**1**	**2**	11/04/13
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**	**4**	**1**		**83**		**3**	**1**	11/04/13
8/5	A42		S															
8/8	A43		S															
8/11		**20**	**F**	**2**	**10/9**	**59**	**6**	**17-Oct**	**96**	**3**		**2**	**93**		**3**		11/04/13
8/17	A44		S															
8/26	A45		K/M															
8/26		**21**	**K**	**5**	**10/23**	**58**	**7**	**30-Oct**	**97**	**4**	**4**		**89**		**4**	**4**	11/04/13
									596	**23**	**23**	**21**	**550**		**22**	**23**	

2014

4/17	A1		S															
4/20		1	N	2														
4/20		**2**	**N**	**2**	**6/28**	**68**	**1**	**7/5**	**105**		**2**	**2**	**103**				**2**	11/17/14
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**	**7**	**10**	**3**	**90**			**7**	**10**	11/17/14
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**	**19**			**53**			**18**		11/17/14
5/28		9	B	2														
5/29		**12**	**L**	**1**	**7/27**	**59**	**3**	**9/14**	**64**	**4**			**60**			**4**		11/17/14
6/1		**13**	**P**	**2**	**8/3**	**63**	**5**	**8/17**	**100**	**65**	**1**		**34**		**1**	**8**	**2**	11/17/14
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**	**2**	**5**		**100**			**2**	**5**	11/17/14
6/9		18	D/E	3														
6/10		**19**	**P**	**2**	**8/10**	**61**	**7**	**8/17**	**86**	**21**			**65**			**6**		11/17/14
6/12		20	L	4														
6/13		21	P	2														
6/14		**22**	**I/J**	**4**	**8/15**	**62**	**8**	**8/27**	**80**	**6**	**1**		**73**			**6**	**1**	11/17/14
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**	**21**	**1**	**1**	**67**			**21**	**1**	11/17/14
6/23		**29**	**N/O**	**3**	**8/26**	**64**	**10**	**9/3**	**95**	**1**	**59**	**1**	**35**			**1**	**?**	11/17/14
6/23		30	S	3														
6/28	A19		S															
6/29		**31**	**M**	**1**	**8/29**	**61**	**11**	**9/3**	**88**	**5**			**83**			**5**		11/17/14
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**	**20**			**60**			**19**		11/17/14
7/8		**38**	**P/Q**	**6**	**9/2**	**57**	**13**	**9/10**	**98**		**15**	**1**	**83**				**15**	11/17/14
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**	**3**	**1**		**66**			**3**	**1**	11/17/14
7/17		45	C	4														
7/18	A24		S															
7/22		**46**	**K**	**2**	**9/17**	**58**	**15**	**9/24**	**101**	**2**	**4**	**1**	**95**			**2**	**4**	11/17/14
7/22		47	S	4														
7/29		**48**	**I/J**	**3**	**9/27**	**60**	**16**	**10/4**	**77**	**21**			**56**			**21**		11/17/14
7/31		49	C	1														
8/10		50	D	3														
8/10		**51**	**J**	**1**	**10/7**	**58**	**17**	**10/12**	**79**	**18**			**61**			**18**		11/17/14
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**	**33**			**52**					
8/24		55	K	1	**10/20**	**57**	**19**	**10/27**	**85**	**4**			**81**			**33**		11/17/14
																4		11/17/14
									1668	**9/8**	**99**	**9**	**1317**			**178**	**29 +**	

plus 1 dead outside of nest

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 between hatch and ability to dig

2015

5/11		1	R	4														
5/12		**2**	**C**	**3**		**7/16**	**65**	**1**	**22-Jul**	**76**				**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**	**1**	**3**	**23**	**72**		**1**	**3**	10/30/15
6/8	5		S															
6/8	6		S															
6/8	7		S															
6/13		**6**	**M**	**1**		**8/16**	**64**	**4**	**21-Aug**	**68**	**4**		**1**	**64**		**4**		10/30/15
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															
										220	5	3	24	212		**5**	**3**	

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**	**4**			**93**		**4**		**10/23/16**
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**		**2**	**9**	**92**			**2**	**10/23/16**	
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**	**6**		**2**	**74**		**6**		**10/23/16**	
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**	**3**	**4**	**1**	**87**		**3**	**4**	**10/23/16**	
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															
									365	**13**	**6**	**12**	**346**		**13**	**6**		

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**			**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**	**9**			**58**		**8**			**1 egg was damaged in removing it from the nest**
6/27	B66,67,68		S															
7/2	B69		O/P															
7/3		**4**	**I / J**	**1**		**60**	**3**	**9/6**	**67**	**1**			**66**		**1**			
7/14	B70		S															
7/18		**5**	**H**	**1**	**9/11**	**55**	**4**	**9/19**	**74**	**4**			**70**		**4**			
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**	**3**			**69**		**3**			
8/6	B79		S															
8/12	B80		S															
8/15		**7**	**J**	**2**	**10/14**	**60**	**6**	**10/28**	**74**	**8**			**66**		**8**			
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, 15E	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

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

Data from nests dug up after hatching

Date	first trip	first nesting trip	last nest	last trip in	first hatch	last hatch	basking tracks	false crawls	Nesting Trips In	Hatches	% Hatched	Average Incubation	nests dug up	eggs laid	average lay	successful hatch count	average hatch
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	60	1	62	62	61	61
1989	7/25			7/25				1									
1990																	
1991	6/19	6/19	9/1	9/2	9/1	10/29		1	4	3	75	58	3	200	67	198	66
1992	6/23	6/23	7/24	7/24	9/22	9/22			2	1	50	61	1	75	74	74	74
1993	5/31	5/31	9/2	9/2	7/31	10/13		2	8	3	38	61					
1994																	
1995	5/20	5/20	8/4	8/4	8/8	9/17		2	17	5	29	59	3	226	75	218	73
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	62					
1998																	
1999	5/25	5/25	8/29	8/29	7/25	10/22		6	26	11	42	63					
2000																	
2001	5/8	5/8	8/20	8/20	7/24	10/18		1	25	13	52	62	1	79	79	78	78
2002																	
2003	5/17	5/17	8/22	8/22	7/16	10/19		6	27	13	48	61					
2004	6/5	6/5	9/25	10/8	8/17	11/25		2	16	6	38	58	2	152	76	135	68
2005	5/1	5/1	9/7	9/7	8/3	10/15		20	37	12	32	60	1	81	81	79	79
2006	4/25	5/23	9/20	11/19	8/4	11/24	28	4	17	8	47	62	5	406	81	380	76
2007	5/10	5/10	8/30	8/30	7/17	11/2	1	13	28	14	50	62	14	1073	77	1012	72
2008	4/27	5/24	9/13	10/24	7/28	11/4	9	3	7	4	57	65	2	144	72	83	42
2009	5/20	5/30	9/10	10/4	8/9	11/9	18	18	30	12	40	62	12	860	72	783	65
2010	4/2	5/15	9/17	10/14	7/25	11/21	87	9	28	15	54	65	14	1060	76	1005	72
2011	4/11	7/17	9/4	9/9	9/17	11/6	43	2	8	4	50	63	4	259	65	249	62
2012	3/23	4/15	8/24	8/24	6/14	10/29	18	18	36	10	28	62	10	883	88	821	82
2013	4/22	5/19	8/26	8/26	7/26	10/23	36	9	21	7	33	62	7	596	85	550	79
2014	4/17	4/20	8/24	8/24	6/28	10/20	15	9	55	20	36	61	19	1668	88	1317	69
2015	5/11	5/11	7/7	8/29	7/16	8/16	30	5	9	4	44	64	3	220	73	212	71
2016	4/22	6/3	8/19	10/16	8/20	10/16	57	3	14	4	29	58	4	365	91	346	87
2017	4/5	4/18	8/15	8/22	7/22	10/14	82	2	7	6	86	59	6	429	72	404	67
2018	5/10			8/5			60										

2012

Preserve Beaches East & West of Kalani Point

Date	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch Date	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches	remains sent to George
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	78	27-Nov
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			67	27-Nov
		West K			24-Sep	3				1			
8/16/12	816	West K	4	15-Oct	15-Oct	4	5-Nov	81	1			80	27-Nov
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			70	27-Nov
								337	40	3	1	295	

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 #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches	remains sent to George
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**			**78**	17-Nov
7/1/14	**701**	**West K**	**4**	**28-Aug**	**12-Aug**	**1**	**22-Aug**	**63**	**4**			**59**	17-Nov
7/1/14	**701- 2**	**West K**	**1**	**28-Aug**	**14-Aug**	**2**	**22-Aug**	**91**	**2**		**2**	**89**	17-Nov
7/8/14	708	West K	4?	2-Sep									
unrecorded nest		**East K**			**9-Sep**	**4**	**17-Sep**	**59**				**59**	
unrecorded nest		**West K**			**9-Sep**	**5**	**17-Sep**	**116**	**35**	**3**		**78**	17-Nov
7/16/14	**716**	**West K**	**1**	**14-Sep**	**11-Sep**	**6**	**17-Sep**	**67**	**3**	**1**		**64**	17-Nov
7/26/14	**726**	**West K**	**1**	**24-Sep**	**23-Sep**	**7**	**28-Sep**	**64**	**1**	**2**		**61**	17-Nov
7/29/14	**728 - 1**	**East K**	**1**	**27-Sep**	**23-Sep**	**8**	**28-Sep**	**88**	**6**			**82**	17-Nov
7/29/14	**728 -2**	**East K**	**2**	**27-Sep**	**23-Sep**	**9**	**23-Sep**	**65**	**8**	**3**		**54**	17-Nov
8/12/14	**812**	**East K**	**2**	**11-Oct**	**9-Oct**	**10**	**17-Oct**	**77**	**6**			**71**	17-Nov
8/14/14	**814**	**East K**	**1**	**13-Oct**	**14-Oct**	**11**	**17-Oct**	**84**	**2**			**82**	17-Nov
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**	**60**	17-Nov
								920	**75**	**9**	**3**	**837**	

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	Successful Hatches	
7/2/15	7215	Ekalani	2	**8/31**	10-Sep	**2**	**9/17**	**73**	**1**	**1**		**71**	Oct 30/15
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**			**68**	Oct 30/15
7/14/15	71415	Wkalani	2	9/9 ?									
7/30/05	73015	Ekalani	**2**	9/28	**29-Sep**	**3**	**5-Oct**	**76**	**1**			**75**	Oct 30/15
8/11/15	**81115**	**Ekalani**	**3**	**10/10**	**5-Oct**	**4**	**13-Oct**	**78**	**3**			**75**	Oct 30/15
								298	**8**	**1**		**289**	

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 Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches
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**		**50**
6/6/17	**5**	**I**	**1**	**8/5**	**8/3**	**2**	**9-Aug**	**68**	**3**			**65**
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**		**115**

Date found	WEST Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches
3/19/17	1	D	2	5/18								
4/5/17	**2**	**D**	**2**	**6/2**	**6/6**	**1**	**6/11**	**96**	**1**	**1**		**94**
4/22/17	**3**	**D**	**1**	**6/21**	**6/25**	**2**	**7/2**	**87**	**3**			**84**
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								
520/17	8	C / D	1	7/19								
5/23/17	**9**	**A**	**2**	**7/22**	**7/18**	**3**	**8/4**	**55**		**1**		**54**

6/3/17	**10**	**C**	**1**	**8/2**	**7/27**	**4**	**8/20**						nest not found
6/6	11	A	2	8/5									
6/16	**12**	**C**	**1**	**8/15**	**8/12**	**5**	**8/20**	**97**	**2**			**95**	
6/20	13	C	2	8/19									
6/20	**14**	**A**	**2**	**8/19**	**8/18**	**6**	**10/18**	**68**	**3**			**65**	**delay digging - overlapping nesting activity**
6/30/17	15	C	1	8/29									
71/2017	16	D	1	8/29									
7/4	**17**	**A**	**2**	**9/2**	**8/29**	**7**	**10/18**	**65**	**7**			**58**	**delay digging - overlapping nesting activity**
7/19	**18**	**A**	**2**	**9/17**	**9/13**	**8**	**10/18**	**62**	**1**			**61**	
8/3	19	A	1	10/2									
								530	**17**	**2**		**511**	
	Totals for East & West Kalani 2017							**651**	**22**	**7**	**0**	**626**	

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

EAST

Date found	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches
								0	**0**	**0**		**0**

WEST

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

		0	0	0		0
Totals for East & West Kalani 2018		0	0	0	0	0

Kalani Green Sea Turtle Nesting Survey Summary 2012-2018

Date	first nesting trip	last nest	first hatch	last hatch	Nesting Trips In	Hatches	% Hatched
2012	6/13	8/31	8/28	11/5	10	5	0.50
2013							
2014	5/1	8/28	8/12	10/25	19	12	0.63
2015	7/2	8/11	9/6	10/5	8	4	0.50
2016							
2017	3/19	10/18	6/6	8/29	31	10	0.32
2018							
2019							

Data from nests dug up after hatching

nests dug up	eggs laid	average lay	hatch count	successful average hatch
4	337	84	295	73.75
12	920	77	837	69.75
4	298	75	289	72.25
9	651	72	626	69.5