

SUMMARY OF TAGGING DATA FOR THE HPA/NMFS GREEN TURTLE RESEARCH PROJECT
AT KIHOLO BAY, HAWAII

Compiled by G. H. Balazs

Tag No.	Straight carapace, cm		Date/time	Capture method
	Length	Width		
Expedition #1, 21-23 October 1987				
*7778, 7779, (8701)	60.6	49.1	10/21, 2230	Hand
8702, 8703	43.4	34.8	10/21, 2245	Hand
8704, 8705, 8706	55.0	43.0	10/21, 2300	Hand
8707, 8708	45.3	44.9	10/22, 1800	Net
8709, 8710, 8711	52.7	--	10/22, 1545	Net
8712, 8713	45.1	36.4	10/23, 0320	Net
Expedition #2, 10-12 February 1988				
8714, 8715	42.4	32.9	2/11, 0120	Net
8716, 8717	46.1	37.8	2/11, 0015	Net
8718, 8719	45.6	35.1	2/10, 2230	Hand
8720, 8721	59.2	45.6	2/10, 2300	Hand
8722, 8723	46.5	37.9	2/10, 2330	Net
8724, 8725, 8902	58.7	47.6	2/10, 1830	Net
8903, 8904	39.1	32.9	2/11, 1830	Net
8905, 8906	41.6	34.7	2/11, 1835	Net
*3476, 3477, (8907)	64.3	51.8	2/11, 1845	Net
*7759, 7760, (8908)	56.5	44.9	2/11, 1930	Net

(8908)
SUMMARY OF TAGGING DATA--Continued.

Tag No.	Straight carapace, cm		Date/time	Capture method
	Length	Width		
8909, 8910	44.8	35.5	2/11, 2030	Hand
8911, 8912, 8913	59.5	47.8	2/11, 2045	Hand
8914, 8915, 8916, 8917	66.5	50.6	2/11, 1930	Net

*Long-term tag recoveries, all of which were originally captured and tagged at Kiholo Bay. Growth data, as measured by an increase in straight carapace length, are as follows:

- 7778, 7779,
(8701) Originally captured 8/9/84 (3.2 yr interval).
Mean yearly growth of 0.87 cm (0.34 in).
- 3476, 3477,
(8907) Originally captured 10/14/80 (7.3 yr interval).
Mean yearly growth of 1.77 cm (0.70 in).
- 7759, 7760,
(8908) Originally captured 8/8/84 (3.5 yr interval).
Mean yearly growth of 0.83 cm (0.33 in).

SUMMARY OF 37 GREEN TURTLES TAGGED AND RESIGHTED AT KIHOLE BAY, HAWAII,
3-5 MAY 1989

Compiled by George H. Balazs (NOAA Fisheries)
and
David Gulko (Hawaii Preparatory Academy)

Inconel tag No.	Carapace length (cm)		Weight (lb)	Notation
	Straight standard/notch	Curved		
3-4 May 1989 (9 turtles)				
Y-229*,30	52.7/52.6	56.5	44	Sluice gate
Y-231*,32	44.6/44.3	47.5	29	P
Y-233*,34	48.4/47.9	52.0	36.5	P
Y-235*,36	38.2/37.8	40.5	18.5	NP
Y-237*,38	47.9	51.0	36.5	RHF 1/2 missing
Y-105*,06	46.6/46.5	50.0	27.5	a; NP
8905*,06	44.8/43.9	47.5	27	b; NP
3315*,16	58.0	62.0	60.5	c; NP
Y-101				
8947*,48,49	70.3/70.1	75.0	97	d
4-5 May 1989 (28 turtles)				
8903*,04	41.6/40.9	43.5	24	e; P
8702*,03	47.9/47.3	51.0	33	f; NP
Y-239*,40	56.1	60.0	56.5	NP
Y-102*,03,04	56.9	60.5	58.5	g; NP
Y-241*,42	44.0/43.9	46.5	27	P; NP
8909*,10	47.4/47.1	36	36	h; NP
Y-21*,22	43.5/43.2	46.5	27.5	i; NP
Y-133*,34	42.4	44.5	23.5	j; NP
8941*,42	43.8/43.4	46.5	26	k; NP
Y-117*,18,19	63.4/63.2	67.5	67.5	L; P
Y-243*,44	48.8	53.5	39	P
7789*,90	63.4	67.0	73.5	m; NP; LH line
Y-18				scar
7774*,8935,36	57.7	61.5	56.6	n; NP
Y-124*,25	47.6	50.0	35	O; NP
Y-245*,46	51.1/50.9	54.5	42.5	NP; pond capture
Y-247*,48	47.7/47.4	50.0	33.5	NP
8929*,8930	45.3/45.1	48.5	30	p; NP
Y-142*,43	52.1/51.9	55.5	39.5	q; NP; LH injury
Y-249*,50	40.8	43.0	22	P; shark injuries
8716*,17	47.6	50.0	37.5	r; NP

Summary of turtles at Kiholo Bay.--Continued.

Inconel tag No.	Carapace length (cm)		Weight (lb)	Notation
	Straight standard/notch	Curved		
Y-96*,97	44.2./43.5	47.0	29.0	s; P
8939*,40	50.3/50.0	53.5	40.5	t; P
8712*,13	46.7/46.1	49.5	32	u; NP
Y301*,02	50.2	54.5	41.5	NP
Y-2*,3	51.7/51.0	54.0	47.5	w; NP
Y-122*,23	51.7/50.9	55.0	42.5	x; NP
7785*,86	59.0/58.3	62.5	66	y; P
7755*,56 Y126	49.2/49.0	52.0	40.5	z; P

* - Carapace engraved with Dremel "free-wheeler" moto tool.

P - Prudent behavior (10 total)

NP - Nonprudent behavior (24 total)

a-z - Long-term tag resightings. See accompanying data summary of growth rates.

Summary of 25 turtles tagged and resighted
at Kiholo Bay, Hawaii, 3-5 May 1989

Compiled by George H. Balazs
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Inconel Tag No.	Carapace length (cm)		Time interval in years	Growth rate (cm/yr)
	Initial	Recovery		
Y-105	46.0	46.6	0.2	3.0*
8905	41.6	44.8	1.2	2.7
3315	42.9	58.0	9.2	1.6
8947	70.1	70.3	0.8	0.3*
8903	39.1	41.6	1.2	2.1
8702	43.4	47.9	1.5	3.0
Y-102	56.8	56.9	0.2	0.5*
8909	44.8	47.4	1.5	1.7
Y-21	42.0	43.5	0.5	3.0*
Y-133	42.0	42.4	0.5	0.8*
8941	41.9	43.8	1.0	1.9
Y-117	63.0	63.4	0.2	2.0*
7789	57.8	63.4	4.8	1.2
7774	53.0	57.7	4.8	1.0
Y-124	47.3	47.6	0.5	0.6*
8929	42.6	45.3	1.0	2.7
Y-142	52.0	52.1	0.2	0.5*
8716	46.1	47.6	1.2	1.3
Y-96	43.6	44.2	0.2	3.0*
8939	49.3	50.3	1.0	1.0
8712	45.1	46.7	1.5	1.1
Y-2	50.4	51.7	0.5	2.6*
Y-122	51.2	51.7	0.2	2.5*
7785	51.2	59.0	4.7	1.7
7755	42.7	49.2	4.8	1.4
Mean	46.2	--	1.7	1.7
Range	39.1-70.1	--	0.2-9.2	0.3-3.0

* - Projected growth rates based upon time intervals of <1 year.

Growth data for green turtles recaptured
at Kiholo Bay, Hawaii, during October 1980

by George H. Balazs

Tag no.	Straight carapace length, cm	Increase for 7 months March - October	Growth rate cm/month
3313	44.1	1.8	0.26
3315	46.0	3.1	0.44
3319	49.0	2.0	0.29
3317	53.0	3.6	0.51
3305	53.4	2.2	0.31
3303	53.6	2.0	0.29
3297	61.0	1.5	0.21
3311	63.0	1.0	0.14

$\bar{X} = 0.31$

S. D. = 0.12

Range .14 - .51

N = 8