

SUMMARY OF MARINE TURTLE DATA COLLECTED
AT SEA LIFE PARK DECEMBER 6, 1973

by G. H. Balazs

Model Tag No.	Sex	Carapace		Carapace	
		Straight Line, Inches		Curved, Inches	
		Length	Width	Length	Width
685 *	F ?	29-1/2 74.9	22-1/2 52.2	30-1/2	26-3/4
688; 690 *	F ?	28 71.1	21-3/4 55.2	29-1/2	26-1/4
691 *	F ?	21-1/4 59.0	16-1/4 41.3	22-1/2	19
692; 701 *	F ?	23-3/4 60.3	17-3/4 45.1	25	21-1/2
693 *	M	27-1/2 69.8	21 53.3	28-1/2	24-3/4
694 *	M	26-1/2 67.3	21-1/2 54.6	28	26
697 *	?	19-1/2 49.5	15-1/2 39.4	20-1/4	18
698 *	?	23-3/4 60.3	19-1/2 49.5	25	22-1/4
702 *	F ?	26-3/4 67.9	20 50.8	28-1/2	24
700 ^{OFF} _{INTANK}	M 905; 906	30-3/4 78.1	23-1/2 59.7	32-3/4	27-1/2
699	F	33-3/4 85.7	27-1/4 69.2	35-1/2	32
696	F (Hawksbill <u>Eretmochelys</u> sp.)	33-3/4 85.7	27-1/4 69.2	35-3/4	32-3/4
695	F	32-1/2 82.6	25-1/4 64.1	34	29
687	M	32-1/2 82.6	26-1/4 66.7	34	31
686 ^{OFF} _{INTANK}	F 910; 911	34 86.4	27 68.6	36-1/4	36-1/2
684	F	37-1/4 94.6	29-3/4 75.6	40	35

* Released from Makai Pier

Straight carapace length data for Hawaiian green turtles in captivity at Sea Life Park

by
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Tag No.	6 Dec. 1973	13 months (9) 10 Jan. 1975	22 months (13) 14 Oct. 1975	35 months (24) 8 Nov. 1976	59 months 16 Nov. 1978	
905,2015	78.1	78.1	77.5	-	78.7	M
1505,2021	85.7	86.7	86.4	87.0	87.6	F
687,2019	82.6	83.2	83.2	84.5	-	M
911,2013	86.4	86.7	86.4	-	86.7	F
684	94.6	95.3	94.3	95.6	-	F
1506,2017	-	92.7	91.4	93.0	93.7	F
908,2069	-	78.7	78.4	79.4	79.7	M
1507,2062	-	85.1	84.8	85.7	86.0	F
1502,2057	-	69.2	70.8	80.0 (released)	-	F
904,2067	-	62.2	69.2	79.4 (released)	-	?
1509,2065	-	-	64.8	73.6 (released)	-	F
902,2014	-	63.5	68.6	-	79.1	M
BFT,2071	-	-	76.8	84.8	89.2	F
177,2018	-	-	73.3	80.3	84.8	M

1976 GREEN TURTLE

NESTING ACTIVITY AT SEA LIFE PARK

Summarized by

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<u>Clutch No.</u>	<u>Date</u>	<u>Activities and findings</u>
	6/18/76	initiation of emergence and excavation on artificial beach
1	7/6	35 eggs found in pond, transferred to styrofoam container; 7/24 examination indicated infertility and decomposition
2	7/12	female #76 deposited 64 eggs in artificial beach, transferred to plastic container; 8/25 examination indicated 20 eggs with small blood spot, remainder infertile
3	7/26	17 eggs found in pond; discarded
4	7/28	female with no tag (light carapace, tattered hind flippers) deposited 107 eggs in artificial beach; clutch divided and transferred into two styrofoam containers; 8/21 examination indicated all infertile
5	8/10	female #2009 deposited 67 eggs in artificial beach; 9/21 examination indicated 3 cm embryo; 10/6 examination indicated 6.5 cm embryo; mongoose destroyed unknown number of eggs 10/25; total of 20 hatchling by 11/3, 5 no development
6	9/20	single hatchling found behind reef tank; 36 shells and 9 infertile eggs found in sand pile, total clutch size-45 ; probably resulted from turtle emerged 7/20; most of emerged hatchlings probably destroyed by mongoose
7	9/20	80 eggs found in pond; infertile; probably resulted from female tagged #2012
8	9/30	female #2009 deposited 114 eggs in artificial beach, transferred to container; 10/24 examination indicated all infertile

<u>Clutch No.</u>	<u>Date</u>	<u>Activities and findings</u>
9	9/30	female #2009 excavated previously unknown incubating clutch in artificial beach; 24 no development, 5 partial development, 3 unknown, 9 viable and advanced development (transferred to container); total clutch size-41; 9 hatched but destroyed by mongoose on 10/26
10	10/15	42 hatchlings found from previously unknown nest in artificial beach; 23 no development, 7 partial development, 6 unknown (insect destruction), total clutch size-78; 8 released 10/30; 25 released 11/8
11	10/30	14 hatchlings found from previously unknown nest in artificial beach; empty shells suggest 25 actually emerged; 44 no development, 3 partial development, total clutch size-73; 7 released 10/30; 2 released 11/8
12	11/2	49 hatchlings found from previously unknown nest in artificial beach; 14 infertile, 5 partial, total clutch size-78; 25 released 11/4; 24 released 11/8
13	11/5	44 hatchlings found from previously unknown nest in artificial beach; 30 infertile, 12 partial, 3 live hatchlings, total clutch size-89; 41 released 11/5
14	11/24	57 hatchlings found by Pearl factory from previously unknown nest in artificial beach; 21 infertile, 3 partial, total clutch size-81; 57 released 11/24
15	11/30	72 hatchlings found from previously unknown nest in artificial beach; 4 infertile, 1 partial, total clutch size-77; 66 released 11/30
16	12/19	40 hatchlings found from previously unknown nest in artificial beach; 17 no development, 2 partial, 1 hatched but dead, total clutch size-60; 60 released 12/19

Total no. turtles in pool - 19
 adult hawksbill - 1 female
 adult greens - 9 females, 3 males
 sub-adult greens - 4 unknown, 2 male

Maximum no. turtles thought to be involved
 in nestings - 4

1976 GREEN TURTLE NESTING ACTIVITY AT SEA LIFE PARK

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<u>Clutch No.</u>	<u>Eggs</u>	<u>No. Hatchlings Produced</u>	<u>% Hatchling Production</u>	<u>No. live Hatchlings Obtained</u>
1	35 (in water)	0	0	0
2	64	0	0	0
3	17 (in water)	0	0	0
4	107	0	0	0
5	67	<u>>20</u>	<u>>30</u>	20
6	45	36	80	0
7	80 (in water)	0	0	0
8	114	0	0	0
9	41	9	22	0
10	78	42	54	42
11	73	25	34	14
12	68	49	72	49
13	89	47	53	47
14	81	57	70	57
15	77	72	94	72
16	60	40	67	40
Total	1096	397	-	341

Sea turtles in captivity at Sea Life Park on August 28, 1987
 Compiled by George H. Balazs and Marilyn Major.

Old tags present		New tags 8/28/87		Straight carapace length (cm)	Sex	Comments
Left	Right	Left	Right			
<u>GREEN TURTLES</u>						
2987	NNW751	--	--	96.7	F	NNW751 imbedded.
2062	NNW755 (4-5)	--	--	85.7	F	
NNW756	6494	--	--	90.6	F	Scutes peeling.
NNW759	NNW758, NNW760RH	--	--	82.8	IM	Hatched at Sea Life Park 12/80.
5815	2061, NNW761RH	--	--	86.5	M	
5105	NNW762RH	--	--	74.7	M	
NNW764	NNW763	--	--	84.6	M	"Natural" white marks in carapace.
6498, NNW765LH	5608 (imbedded)	--	--	77.9	IM	Kewalo transfer. 11th marginal left graft (dorsal visible but obscured. RH 1/2 missing.
15101	2499, NNW766RH	--	--	80.7	F	HIMB transferred from Kahala Hilton Hotel; repeatedly seen digging on beach.
5817	2070	--	--	84.4	F	
3282	--	--	--	94.4	F	
6496, 3524 (severely imbedded)	15102	--	--	84.7	IM	Hatched at Sea Life Park 12/80.
NNW767	3285	--	--	83.2	M	

(Continued)

Old tags present		New tags 8/28/87		Straight carapace length (cm)	Sex	Comments
Left	Right	Left	Right			
15103	15104, NNW768RH	--	--	78.6	M	
3287	6495, NNW769RH	--	--	79.7	M	
2985	6493, NNW770RH	--	--	79.5	M	
2986	NNW771	--	--	86.1	F	Repeatedly involved in 1986 nesting.
--	--	9903	9904	79.0	M	From Vancouver Aquarium 3/20/86.
--	--	9905, 9906LH	--	72.8	M	From Vancouver Aquarium 3/20/86.
NNW775	2982	--	--	93.1	F	
15105	2984	--	--	87.0	F	
<u>HAWKSBILL</u>						
--	NNW752	--	--	81.8	F	1972 Western Samoa.
NNW757	--	--	--	85.5	F	Hawaiian Islands.
D774	D773, D775	--	--	28.7	IM	Customs confiscation to Waikiki Aquarium. SLP reef tank 15.9 on 7/2/86.
<u>LOGGERHEAD</u>						
--	NNW772	--	--	79.7	F	Molokai Channel-left front flipper amputated; eroded and flaking shell.

Table --Tag numbers and carapace lengths of 23 green turtles(13 females, 8 males, 2 immature), 1 hawksbill, and 1 loggerhead in Sea Life Park's "Turtle Lagoon" on April 21, 1989. (Compiled by George H. Balazs and Barry K. Choy.)

Existing tags		Tag applied		Total (in cm)		Notes
Left	Right	Left	Right	Straight length	Notched length	
2987 ^a	NNW751			96.5	--	Female
2986 ^a	NNW771			85.9	--	Female (crack, 1st lat. right)
NNW775	2982 ^a			93.0	--	Female
	8687 ^a			63.5	63.3	Two size 1 tags
	2061 ^a			86.8	--	Male
NNW756 ^a	--			90.7	--	Female (peeling scutes)
5105 ^a	NNW762			74.9	--	Male
5817	2070 ^a			84.2	--	Female
15103 ^a	15104			78.8	--	Male
NNW759 ^a /5100	NNNW758			88.3	86.4	Female; foam
--	8680 ^a			65.9	65.5	Reddish carapace
3282 ^a	15092			94.4	--	Female; orange plastic
NNW764	NNW763			84.6	--	Male
--	--	Y32	Y33 ^a	79.4	--	Male
15101	2499 ^a			80.9	--	Female
2985 ^a	6493			79.4	--	Male
15105	2984 ^a			86.8	--	Female (?)
3287 ^a	6495			80.3	78.9	Male
NNW772 ^a				80.0	78.6	Loggerhead
NNW767	3285 ^a			83.0	81.7	Female

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April 21, 1989
Sea Life Park

--	--	Y34 ^a	85.5	--	Female
9905 ^a			74.4	--	Male
6498 ^a	5608		81.2	80.3	Female; brown and gold carapace
		NNW752 ^a	81.7	78.2	Hawksbill
6496 ^a	15102		88.9	87.1	Female

^aTag number engraved in carapace with Dremel Moto-tool.

Tag numbers and carapace lengths of 24 green turtles (14 females, 8 males, 2 immature), 1 hawksbill, and 1 loggerhead in Sea Life Park's "Turtle Lagoon", 1989-90.

compiled by
George H. Balazs

HONOLULU LABORATORY
Southwest Fisheries Center
2570 Dole Street
Honolulu, HI 96822-2396

Existing tags left	Existing tags right	Tags newly applied 4/90	Straight length (cm) 4/89	Straight length (cm) 4/90	Notes
2987 ^a	NNW751		96.5	96.5	a = 0; F
2986 ^a	NNW771		85.9	85.9	a = 3; F
NNW775	2982 ^a		93.0	93.1	a = 3; F; Engraved 2982 x2 and "A-1"
Y336	8687 ^a		63.5	71.4	a = 0; size #1LFL
	2061 ^a	W704	86.8	86.9	a = 3; M
NNW756 ^a			90.7	91.1	a = 1; F
5105 ^a	NNW762	W706	74.9	75.1	a = 3; M
5817	2070 ^a		84.2	84.5	a = 3; F
15103 ^a	15104		78.8	78.9	a = 3; M
NNW759 ^a 15100	NNW758		88.3	88.9	a = 1; F
	8680 ^a	W703	65.9	73.1	a = 0; reddish
3282 ^a	15092		94.4	94.7	a = 2; F; OP
NNW764	NNW763		84.6	84.3	M
Y32	Y33 ^a		79.4	79.6	a = 2; M
15101	2499 ^a		80.9	81.2	a = 3; F
2985 ^a	6493		79.4	79.4	a = 3; M
15105	2984 ^a		86.8	87.0	a = 3; F(?)
3287 ^a	6495		80.3	80.4	a = 3; M
NNW767	3285 ^a		83.0	83.3	a = 3; F

Existing tags		Tags newly applied 4/90	Straight length(cm)		Notes
left	right		4/89	4/90	
Y34 ^a		W705	85.5	85.5	a = 3; F <i>Dead 6/91 SANA necropsy</i>
9905 ^a			74.4	75.3	a = 0; M
6498 ^a	5608	W707	81.2	81.6	a = 1; F
6496 ^a	15102		88.9	89.6	a = 3; F
2051 ^a				82.0	a = 2; F
NNW772 ^a			80.0	80.1	a = ?; loggerhead
	NNW752 ^a		81.7	82.0	a = ?; hawksbill (W. Samoa)

^aTag number engraved in carapace on 4/21/89 with Dremel Moto-tool.

0 = No trace of engraving seen on 4/20/90
 1 = Faint engraving present on 4/20/90
 2 = Readable engraving present on 4/20/90
 3 = Prominently readable engraving seen on 4/20/90

M = male
 F = female

OP = orange plastic portion of Riese tag present along with tag 15092

NOTE: 2051 was not in "Turtle Lagoon" on 4/21/89.

Tag numbers and carapace lengths of 22 green turtles (13 females and 9 males), 1 hawksbill, and 1 loggerhead in Sea Life Park's "Turtle Lagoon," 1989-91, as of August 22, 1991.

compiled by
 George H. Balazs and Steve Kaiser

Existing tags		Straight length(cm)			Notes
left	right	4/89	4/90	8/91	8/22/81
2987 ^a	NNW751	96.5	96.5	96.5	a = 0; F; crack
2986 ^a	NNW771	85.9	85.9	--	Shell abcess; F; not in lagoon
NNW775	2982 ^a	93.0	93.1	93.0	a = 3; F;
Y336	8687 ^a	63.5	71.4	80.2	a = 0; F; reddish
W704	2061 ^a	86.8	86.9	87.0	a = 3; M
NNW756 ^a		90.7	91.1	91.0	a = 0; F
5105 ^a	NNW762 W706	74.9	75.1	79.2	a = 3; M
5817	2070 ^a	84.2	84.5	83.7	a = 3; F
15103 ^a	15104	78.8	78.9	78.9	a = 0; M
NNW759 ^a	NNW758	88.3	88.9	90.0	a = 0; F
W703	8680 ^a	65.9	73.1	81.0	a = 0; F; reddish
3282 ^a	15092	94.4	94.7	94.5	a = 2; F; OP
NNW764	NNW763	84.6	84.3	84.4	M; neck growth
Y32	Y33 ^a	79.4	79.6	79.4	a = 0; M; black
15101	2499 ^a	80.9	81.2	80.8	a = 0; F
2985 ^a	6493	79.4	79.4	79.4	a = 0; M
15105	2984 ^a	86.8	87.0	87.0	a = 3; F
3287 ^a	6495	80.3	80.4	80.4	a = 3; M
NNW767	3285 ^a	83.0	83.3	83.4	a = 3; M; black
Y34 ^a	W705	85.5	85.5	--	Abcess; F; dead 6/91

(Continued)

	Straight carapace length (cm)	Sex	Comments
<u>MISCELLANEOUS DATA:</u>			
NNW776, NNW777	54.5 on 2/5/86		Released at Makai Pier 7/11/86.
6914	25.2		Returned from Seattle Aquarium; released Waimanalo Beach 9/23/86.
6915	29.0		Returned from Seattle Aquarium; released Waimanalo Beach 9/23/86.
6916	29.3		Returned from Seattle Aquarium; released Waimanalo Beach 9/23/86.
8682	37.8		Released Makai Pier 3/26/86.
8686	36.9		Released Makai Pier 3/26/86.
9110, 9111, 9112	69.8		Released Hawaii Kai boat ramp 3/6/87--Derby turtle confiscated 2/6/87.
NNW773, NNW774, 9901LH	79.2 on 2/19/87		Released Hawaii Kai boat ramp 3/6/87; adult male.
5101, 5102, 9902	78.2		"Joey" on 2/19/87; release Makai Pier 4/13/87. Formerly in reef tank 11/23/76--72.3 cm 11/30/80--74.5 cm 4/16/86--77.8 cm 4/16/86 moved to Turtle Lagoon but hind flippers bitten off during 1/87.

NNW 753, NNW 754

Released by Steve Kaiser
Sometime during 1986; exact
date unknown.

Tag numbers and carapace lengths of 22 green turtles (13 females and 9 males), 1 hawksbill, and 1 loggerhead in Sea Life Park's "Turtle Lagoon," 1989-91, as of August 22, 1991.

compiled by
 George H. Balazs and Steve Kaiser

Existing tags		Straight length(cm)			Notes
left	right	4/89	4/90	8/91	8/22/81
2987 ^a	NNW751	96.5	96.5	96.5	a = 0; F; crack
2986 ^a	NNW771	85.9	85.9	--	Shell abcess; F; not in lagoon
		<i>Right side LARGE-fiber patch by Bob Morris 1/20/92</i>			
NNW775	2982 ^a	93.0	93.1	93.0	a = 3; F;
Y336	8687 ^a	63.5	71.4	80.2	a = 0; F; reddish
W704	2061 ^a	86.8	86.9	87.0	a = 3; M
NNW756 ^a		90.7	91.1	91.0	a = 0; F
5105 ^a	NNW762	74.9	75.1	79.2	a = 3; M
	W706				
5817	2070 ^a	84.2	84.5	83.7	a = 3; F
15103 ^a	15104	78.8	78.9	78.9	a = 0; M
NNW759 ^a	NNW758	88.3	88.9	90.0	a = 0; F
W703	8680 ^a	65.9	73.1	81.0	a = 0; F; reddish
3282 ^a	15092	94.4	94.7	94.5	a = 2; F; OP
NNW764	NNW763	84.6	84.3	84.4	M; neck growth
Y32	Y33 ^a	79.4	79.6	79.4	a = 0; M; black
15101	2499 ^a	80.9	81.2	80.8	a = 0; F
2985 ^a	6493	79.4	79.4	79.4	a = 0; M
15105	2984 ^a	86.8	87.0	87.0	a = 3; F
3287 ^a	6495	80.3	80.4	80.4	a = 3; M
NNW767	3285 ^a	83.0	83.3	83.4	a = 3; M; black
Y34 ^a	W705	85.5	85.5	--	Abcess; F; dead 6/91

Existing tags		Straight length(cm)			Notes
left	right	4/89	4/90	8/91	8/22/91
9905 ^a		74.4	75.3	75.9	a = 0; M
6498 ^a	5608 W707	81.2	81.6	81.9	a = 0; F; RH $\frac{1}{2}$ miss
6496 ^a	15102	88.9	89.6	89.9	a = 3; F
2051 ^a	2495	--	82.0	82.2	a = 2; F
NNW772 ^a		80.0	80.1	79.5	a = 0; F loggerhead
	NNW752 ^a	81.7	82.0	82.0	a = 0; F; hawksbill (W. Samoa)

^aTag number engraved in carapace on 4/21/89 with Dremel Moto-tool.

- 0 = No trace of engraving seen on 8/22/91
- 1 = Faint engraving present on 8/22/91
- 2 = Readable engraving present on 8/22/91
- 3 = Prominently readable engraving seen on 8/22/91

M = male
F = female

OP = orange plastic portion of Riese tag present along with tag
15092

NOTE: 2051 was not in "Turtle Lagoon" on 4/21/89.

Sealife4.20-7T.GHB