

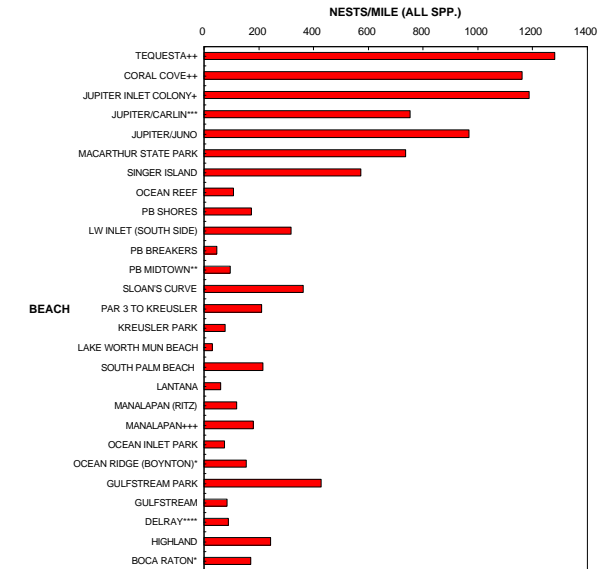
2000 SEA TURTLE NESTING DATA

COMPILED BY: Palm Beach County Department of Environmental Resources Management

Preliminary Draft #2 12/18/00 Subject to change

Sea Turtle Nesting Density Palm Beach County, 2000 All Species

BEACH	LENGTH		TP#	PERMIT HOLDER	DAY/WK	TOTAL FALSE CRAWLS	TOTAL NESTS	NEST DENSITY (NEST/MI)	C. caretta			C. mydas			D. coriacea		
	(MI)	(KM)							NESTS	FC	NEST SUCC	NESTS	FC	NEST SUCC	NESTS	FC	NEST SUCC
TEQUESTA++	0.82	1.32	139	BUD HOWARD	4 / 7	1577	1051	1282	887	1376	0.39	161	199	0.45	3	2	0.60
CORAL COVE++	0.18	0.29	139	BUD HOWARD	4 / 7	294	209	1161	168	251	0.40	41	41	0.50	0	2	0.00
JUPITER INLET COLONY+	0.87	1.40	139	BUD HOWARD	7	1380	1033	1187	938	1308	0.42	84	70	0.55	11	2	0.85
JUPITER/CARLIN***	1.57	2.53	60	PAUL DAVIS	7	1720	1180	752	1107	1563	0.41	61	153	0.29	12	4	0.75
JUPITER/JUNO	6.00	9.66	77	LARRY WOOD	7	5826	5812	969	5173	4910	0.51	605	914	0.40	34	2	0.94
MACARTHUR STATE PARK	1.80	2.90	SP	JOE SMYTH	7	1162	1326	737	1037	1053	0.50	277	109	0.72	12	0	1.00
SINGER ISLAND	2.12	3.41	58	DEBBIE SOBEL	7	1398	1214	573	1001	1243	0.45	192	147	0.57	21	8	0.72
OCEAN REEF	0.15	0.24	105	DEBBIE SOBEL	7	93	16	107	15	92	0.14	1	0	1.00	0	1	0.00
PB SHORES	0.61	0.98	40	BARBARA KISSAS	7	103	106	174	99	98	0.50	3	3	0.50	4	2	0.67
LW INLET (SOUTH SIDE)	0.70	1.13	119	CHRIS PERRETTA	7	561	223	319	218	555	0.28	2	5	0.29	3	1	0.75
PB BREAKERS	0.80	1.29	80	NEBOUSA GARIC	7	16	38	48	37	16	0.70	0	0	N.A.	1	0	1.00
PB MIDTOWN**	1.43	2.30	93	JOHN FLETMEYER	7	169	136	95	130	169	0.43	3	0	1.00	3	0	1.00
SLOAN'S CURVE	1.26	2.03	16	BOB SCHONFELD	7	445	457	363	376	414	0.48	78	30	0.72	3	1	0.75
PAR 3 TO KREUSLER	0.93	1.50	16	BOB SCHONFELD	7	221	196	211	171	207	0.45	21	12	0.64	4	2	0.67
KREUSLER PARK	0.09	0.14	105	MANUEL MESA	7	5	7	78	3	5	0.38	1	0	1.00	3	0	1.00
LAKE WORTH MUN BEACH	0.27	0.43	44	MARK MYHRE	7	0	8	30	8	0	1.00	0	0	N.A.	0	0	N.A.
SOUTH PALM BEACH	1.70	2.74	16	BOB SCHONFELD	7	340	364	214	317	317	0.50	47	23	0.67	0	0	N.A.
LANTANA	0.13	0.21	12	ROB CALDWELL	7	9	8	62	7	8	0.47	0	0	N.A.	1	1	0.50
MANALAPAN (RITZ)	0.32	0.51	12	ROB CALDWELL	7	26	38	119	33	25	0.57	3	0	1.00	2	1	0.67
MANALAPAN+++	2.30	3.70	72	WERSHOVEN/DAVIS	VAR	254	412	179	368	235	0.61	40	18	0.69	4	1	0.80
OCEAN INLET PARK	0.12	0.19	60	PAUL DAVIS	7	4	9	75	8	4	0.67	1	0	1.00	0	0	N.A.
OCEAN RIDGE (BOYNTON)*	2.80	4.51	60/98	DAVIS/TAYLOR	7	527	434	155	394	484	0.45	30	41	0.42	10	2	0.83
GULFSTREAM PARK	0.11	0.18	105	MANUEL MESA	7	23	47	427	45	23	0.66	2	0	1.00	0	0	N.A.
GULFSTREAM	1.59	2.56	98	ROBERT TAYLOR	7	167	134	84	119	152	0.44	8	14	0.36	7	1	0.88
DELRAY****	2.80	4.51	93	JOHN FLETMEYER	7	306	246	88	218	294	0.43	20	12	0.63	8	0	1.00
HIGHLAND	3.00	4.83	100	JOSE ECHEVERRIA	7	562	729	243	587	496	0.54	137	66	0.67	5	0	1.00
BOCA RATON*	5.00	8.05	41	KIRT RUSENKO	7	900	856	171	723	826	0.47	124	74	0.63	9	0	1.00
PBC TOTALS	39.47	63.52				18088	16289	413	14187	16124	0.47	1942	1931	0.50	160	33	0.83
% OF 44.9 MI PBC SHORELINE MONITORED=	88					% OF ALL SPECIES =		87.10%			11.92%			0.98%			



NOTES: QUALITY OF DATA FOR EACH BEACH IS VARIABLE DUE TO DIFFERENT LEVELS OF EXPERIENCE AND METHODS USED BY PERMITTEES.

Nesting Success = # reported nests / (# reported nests + # reported false crawls). (Values ~ >0.7 for Cc considered questionable due to underreporting of false crawls)

+ Surveys conducted 1 day/week in 1997 and 1998 AND 2 days/week in 1999

++ Surveys conducted 1 day/week in 1997 and 1998 AND 2 days/week in 1999 AND in 2000, surveys conducted 4 days/week May 1 to June 30 and 7 days/week July 1 to Aug 31

+++ Surveys conducted 3 days/week in 1999 AND varied in 2000 (except for Zones 1 and 2 just north of the inlet, which were surveyed daily)

* = 3 Seasons Post-nourishment

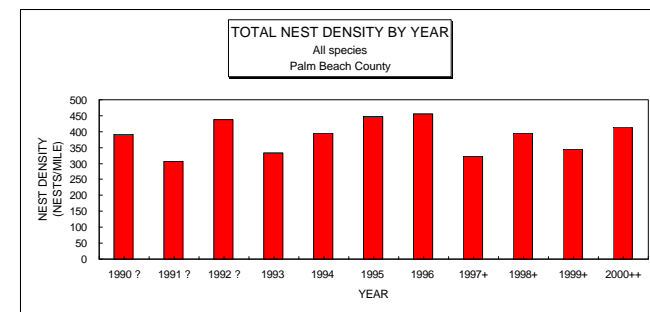
** = 5 Seasons Post-nourishment

*** = 6 Seasons Post-nourishment.

**** = 8 Seasons Post-nourishment.

All survey lengths are based upon old measurements. ERM is in the process of collecting DGPS points for all survey boundaries in PBC and will update and distribute.

PBC TOTAL NEST DENSITY BY YEAR (ALL SPECIES)			
YEAR	MILES SURVEYED	TOTAL NEST CT	DENSITY NEST/MI
	1990 ?	34.9	13,612
1991 ?	38.9	11,983	308
1992 ?	34.3	15,013	437
1993	29.0	9,643	333
1994	34.5	13,671	396
1995	32.0	14,317	447
1996	35.7	16,242	455
1997+	37.1	11,991	323
1998+	39.2	15,472	395
1999+	39.5	13,599	345
2000++	39.5	16,312	413
Average	35.9	13,805	386



+ = Tequesta, Coral Cove and Jupiter Inlet Colony only surveyed

1 day/week in 1997 and 1998 AND 2 days/week in 1999

++ = Tequesta and Coral Cove surveyed 4 days/week May 1 to June 30 and 7

days/week July 1 to August 31

? = Underestimated density because it includes Finucane data which overstates survey lengths