

Bridge Data Analysis Teaching Activity: See Turtles Nest, See Turtles Hatch

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**Answer Sheet*

Plot #	Date laid (yr: 1999)	Natural or relocated	# of eggs	Hatch date	Incubation Period (days)	Verification date	# of unhatched eggs	# of hatched eggs	Total eggs	Hatching success rate
1	March 18	R: 27 days	105	n/a	n/a	6/3	25	80	105	76%
40	April 27	N	n/a	7/8	73	7/10	7	140	147	95.2%
28	May 9	R	148	n/a	n/a	7/24	17	127	144	88.2%
31	May 10	R	117	n/a	n/a	7/25	31	86	117	74%
26	May 21	R: 21 days	181	n/a	75	8/3	12	169	181	93.4%
33	May 23	R	147	7/29	68	8/1	7	142	149	95.3%
35	June 3	R	189	8/13	73	8/16	6	183	189	96.8%
38	June 5	R	137	n/a	76	8/19	21	105	126	83.3%
40	June 16	N	n/a	8/29	75	9/1	10	144	154	93.5%
37	June 21	R	125	9/1	n/a	9/3	4	121	125	96.8%
18	June 29	N	n/a	9/3	67	9/4	3	161	164	98.2%
29	July 8	N	n/a	9/29	83	10/2	10	104	114	91.2%
41	July 10	R	105	9/19	71	10/21	1	104	105	99.0%
22	July 12	N	n/a	9/17	68	10/20	9	160	169	94.7%
26	July 23	R: 18 days	121	10/4	74	10/7	7	113	120	94.2%
25	n/a	R	84	10/23	77	10/25	4	81	84	96%

Summary of Turtle Nesting Data

# of Natural Turtle Nests:	5
# of Relocated Turtle Nests:	11
Average Incubation Period:	73 Days
Total Turtle Eggs:	2,207
Average Success Rate:	91.50%

Table Key and Explanations

- Plot # refers to the plot number of the nearest plot to the turtle nest.
- Date laid is the date when the turtle nest was either laid or discovered. The year is 1999.
- Natural or relocated: If the nests are below the high-water mark, or an exceptionally high tide is expected, a decision is made to move the turtle nest. Unless otherwise specified, all relocations are done within 48 hours of the turtle laying her eggs. If a nest is inundated by sea water the eggs will die.
- # of eggs: If a nest is relocated the eggs are counted. If the nest is not relocated the remains of the eggs are counted during verification.
- Hatch date: Although WTW monitors nests closely, it is not always possible to witness all the nests hatching, therefore some do not have a date in this column.
- Verification is carried out on all the nests reported to WTW. This involves waiting until it is certain that the turtle nest has hatched and then digging up the remains of the nest, counting all the turtle eggs found and counting the number of hatched eggs and the number of unhatched (i.e. infertile/unhatched) eggs.
- Source: *Watamu Turtle Watch. Sea Turtle Nesting Records. Watamu Marine National Park Beach, Kenya. 1999.*