New Jersey Oystercatcher Update 2009

Thomas Virzi, Ph.D.

Department of Ecology, Evolution and Natural Resources
Rutgers, The State University of New Jersey

Todd Pover

Beach Nesting Bird Project
The Conserve Wildlife Foundation of New Jersey

New Jersey Division of Fish and Wildlife –
Endangered and Nongame Species Program

Winter Population Surveys
(Barnegat Inlet to Cape May Inlet)

Date	Year	Count	Type
Nov. 25	2002	973	aerial
Dec. 3	2004	840	aerial
Dec. 7-17	2004	807	ground
Dec. 6-16	2005	546	ground
Dec. 10-15	2006	636	ground
Dec. 10-18	2007	617	ground
Dec. 4-17	2008	755	ground

Banding Data

Year	Adult	Juv	Total
2004	9	1	10
2005	24	15	39
2006	11	33	44
2007	11	23	34
2008	25	9	34
2009	6	36	42
Total	86	117	203

Barrier Beach Strand Breeding Population 2003-2009

	2003	2004	2005	2006	2007	2008	2009	AVG
# Pairs	53	55	59	59	60	59	67	59
# Pairs Hatched	11	18	16	15	14	10	23	15
# Chicks Fledged	15	17	15	15	13	10	24	16
Pair Hatch Success	21%	33%	27%	25%	23%	17%	34%	26%
Fledge Rate (Per Pair)	0.28	0.31	0.25	0.25	0.22	0.17	0.36	0.26
# Sites	22	22	21	19	19	19	23	21

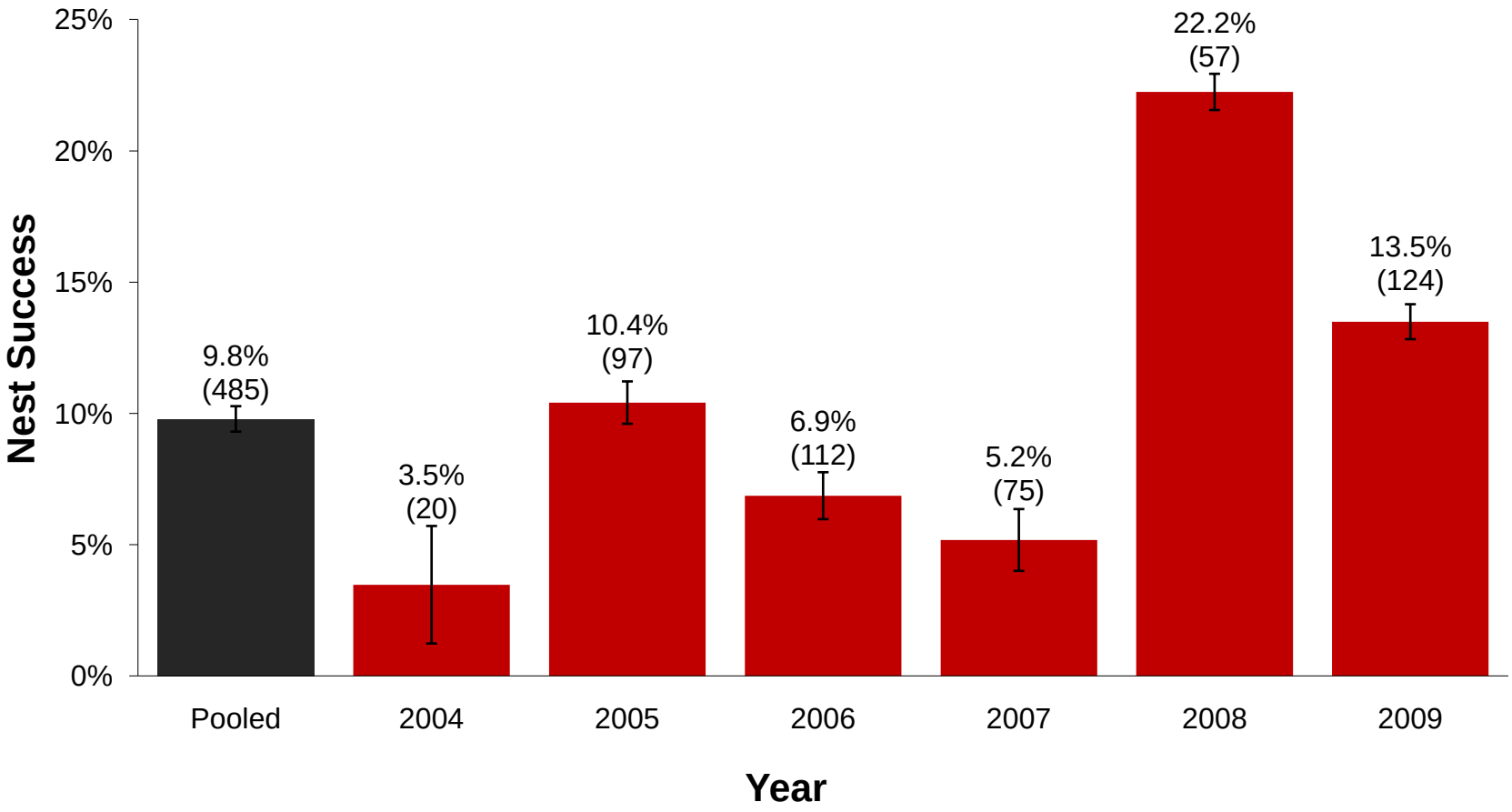
Rutgers Study of Nest Success in Alternative Habitat

- Pilot Research 2004 (1 site)

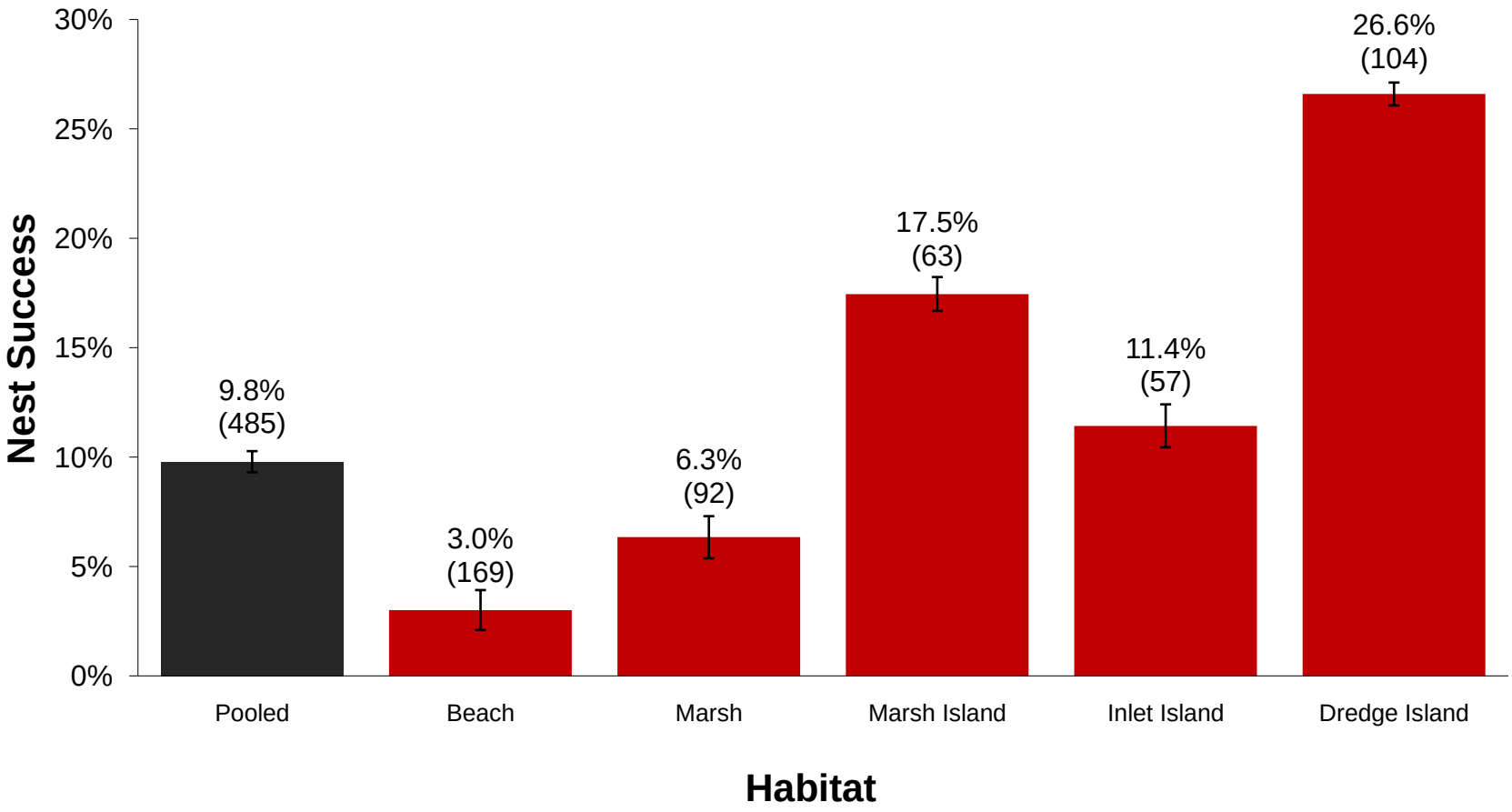
- Dissertation Research 2005 – 2008 (3 sites)
  - Barrier beach (3)
  - Saltmarsh (3)
  - Inlet island (1)
  - Dredge islands (2)

- Expanded Research 2009 (5 sites/inlets)
  - Total islands = 25
  - Total pairs monitored = 123

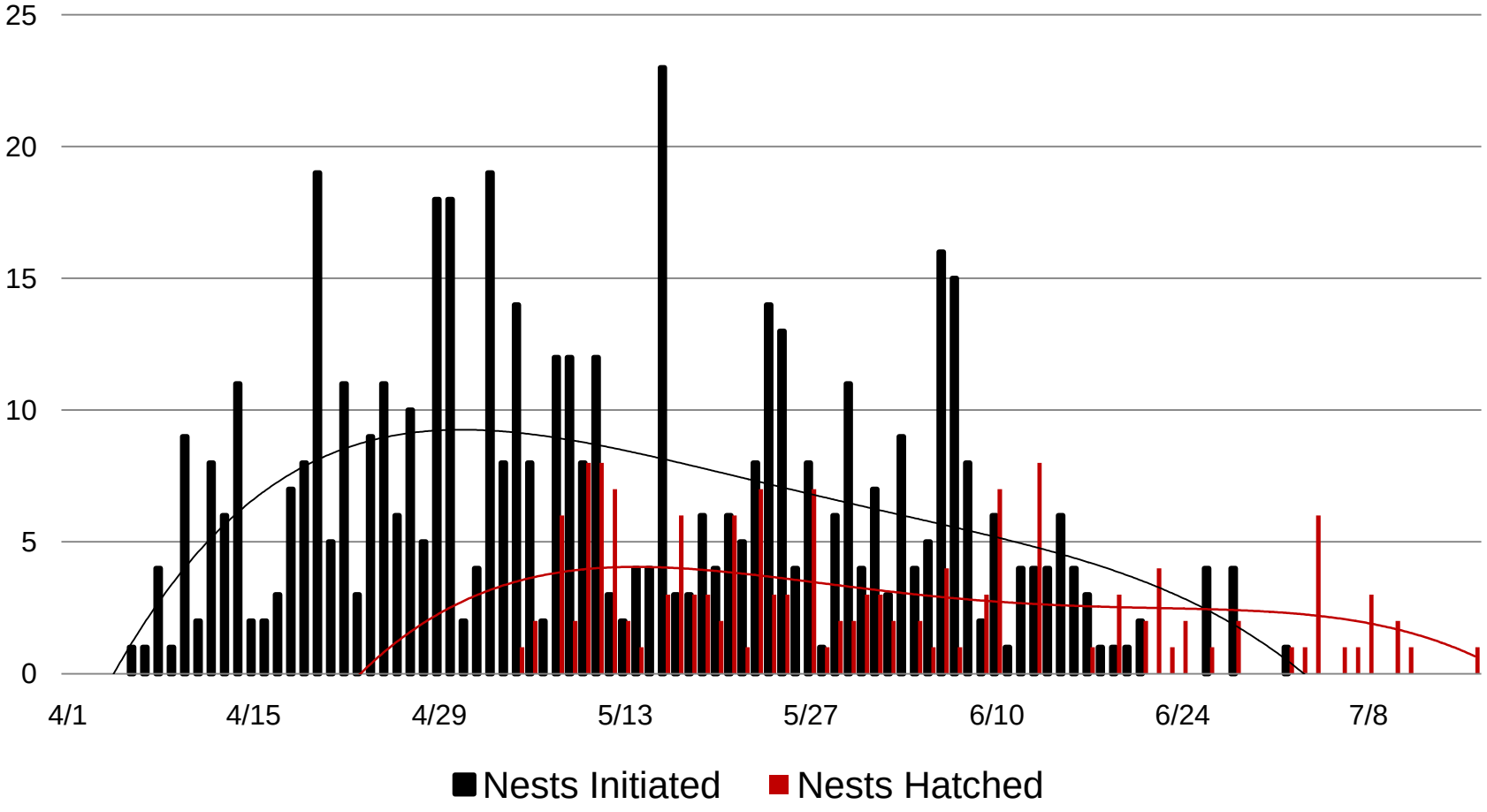
Nest Success 2004 – 2009



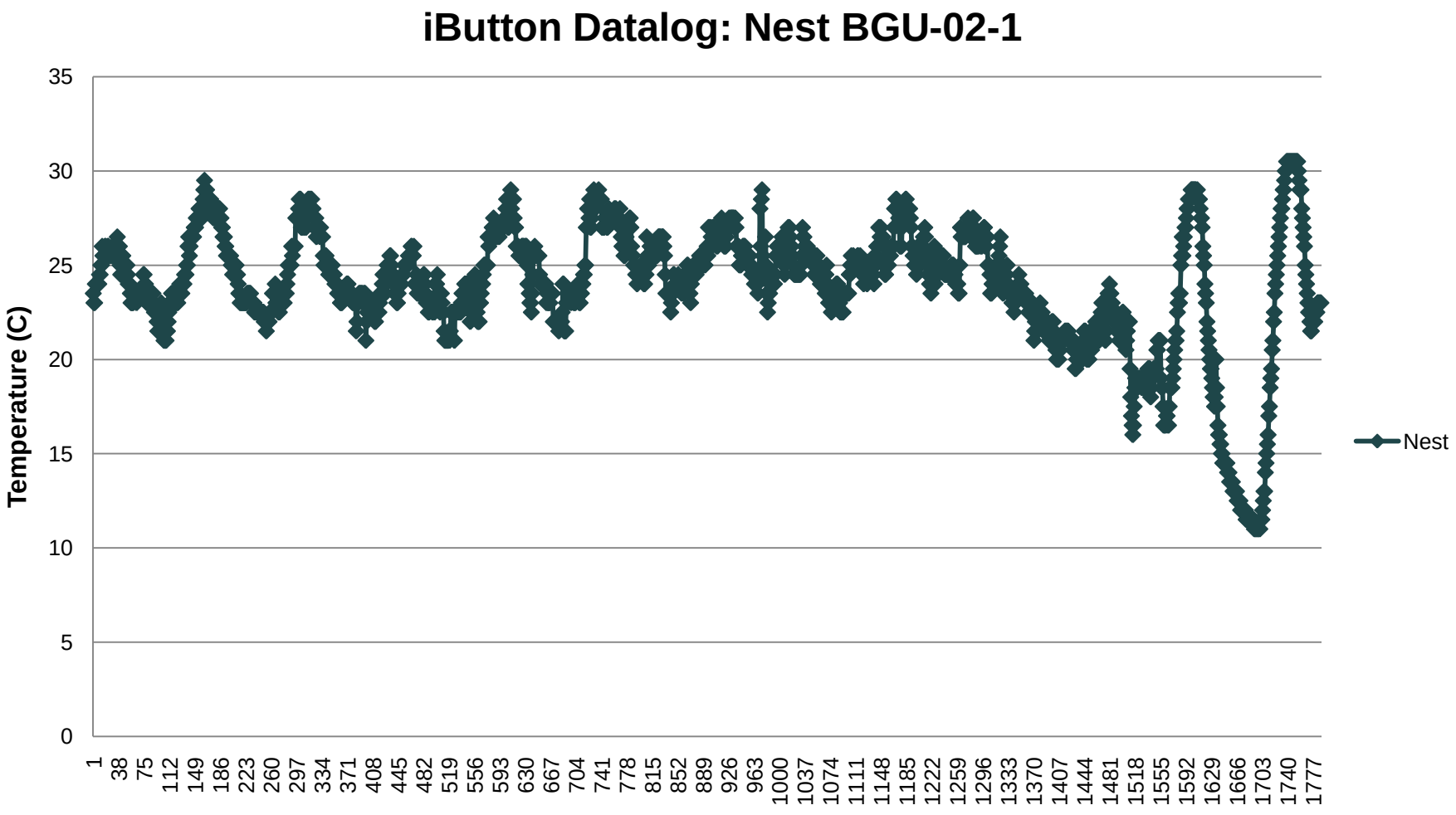
Nest Success by Habitat

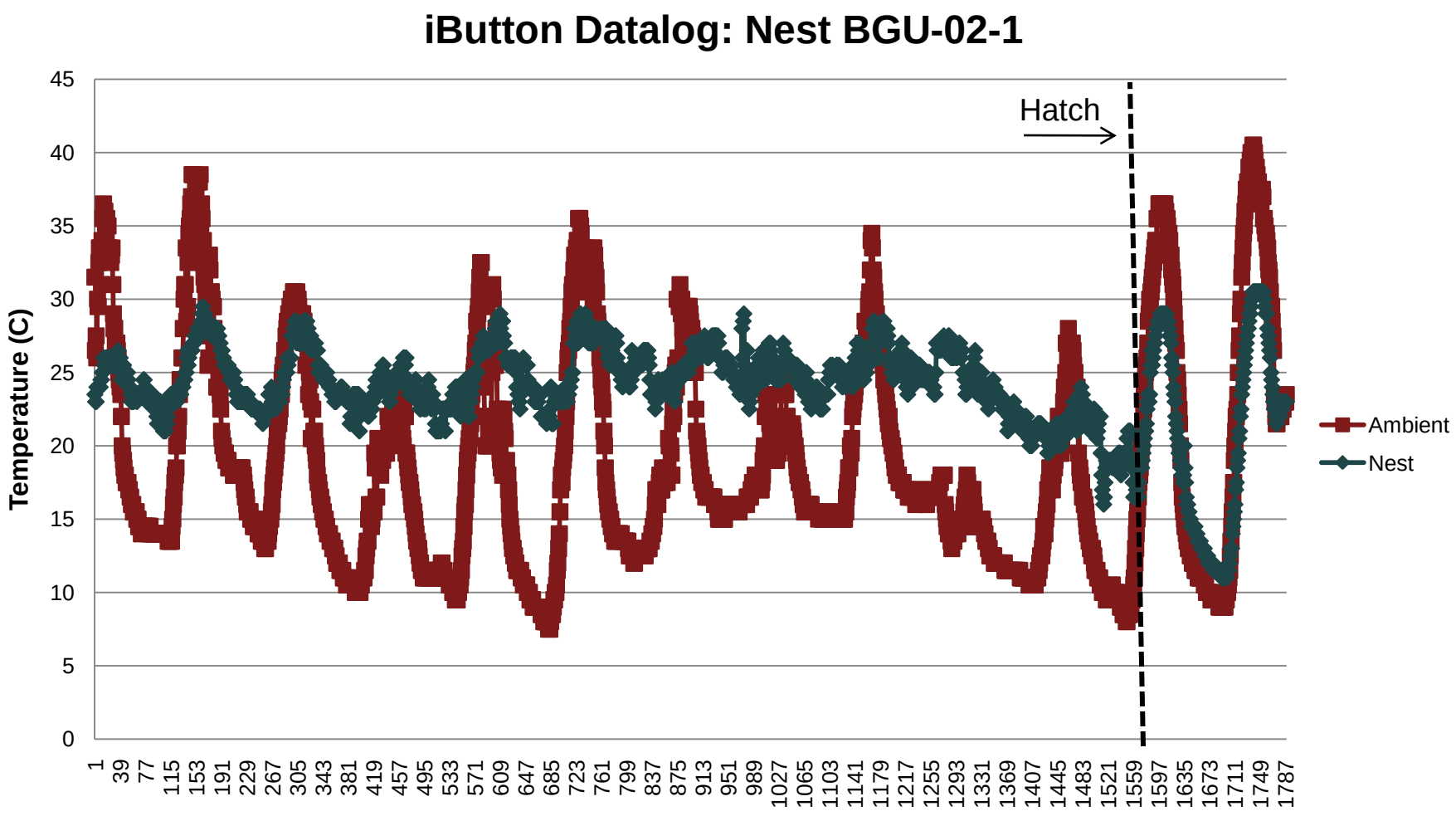


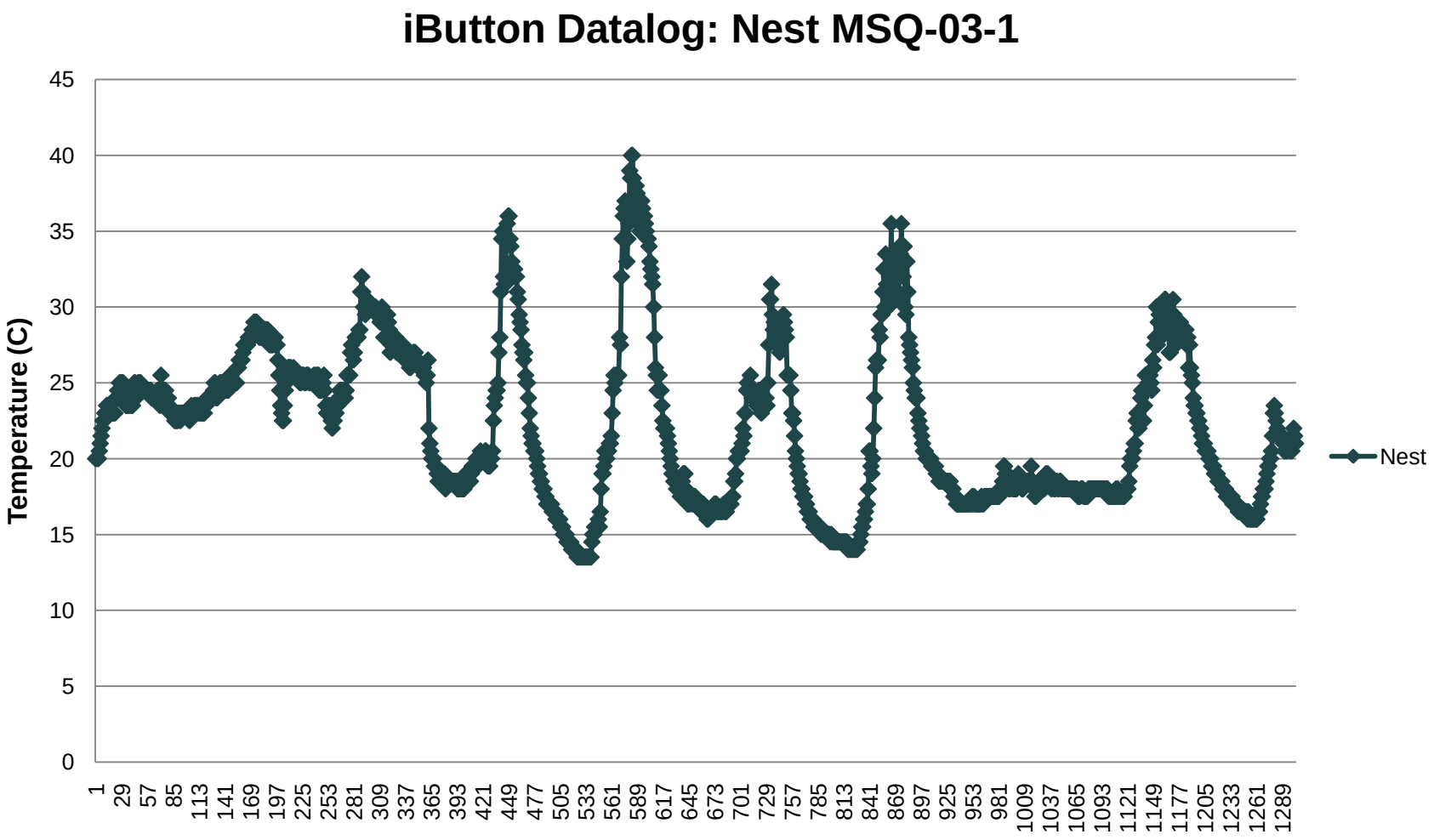
Breeding Phenology 2004 – 2009

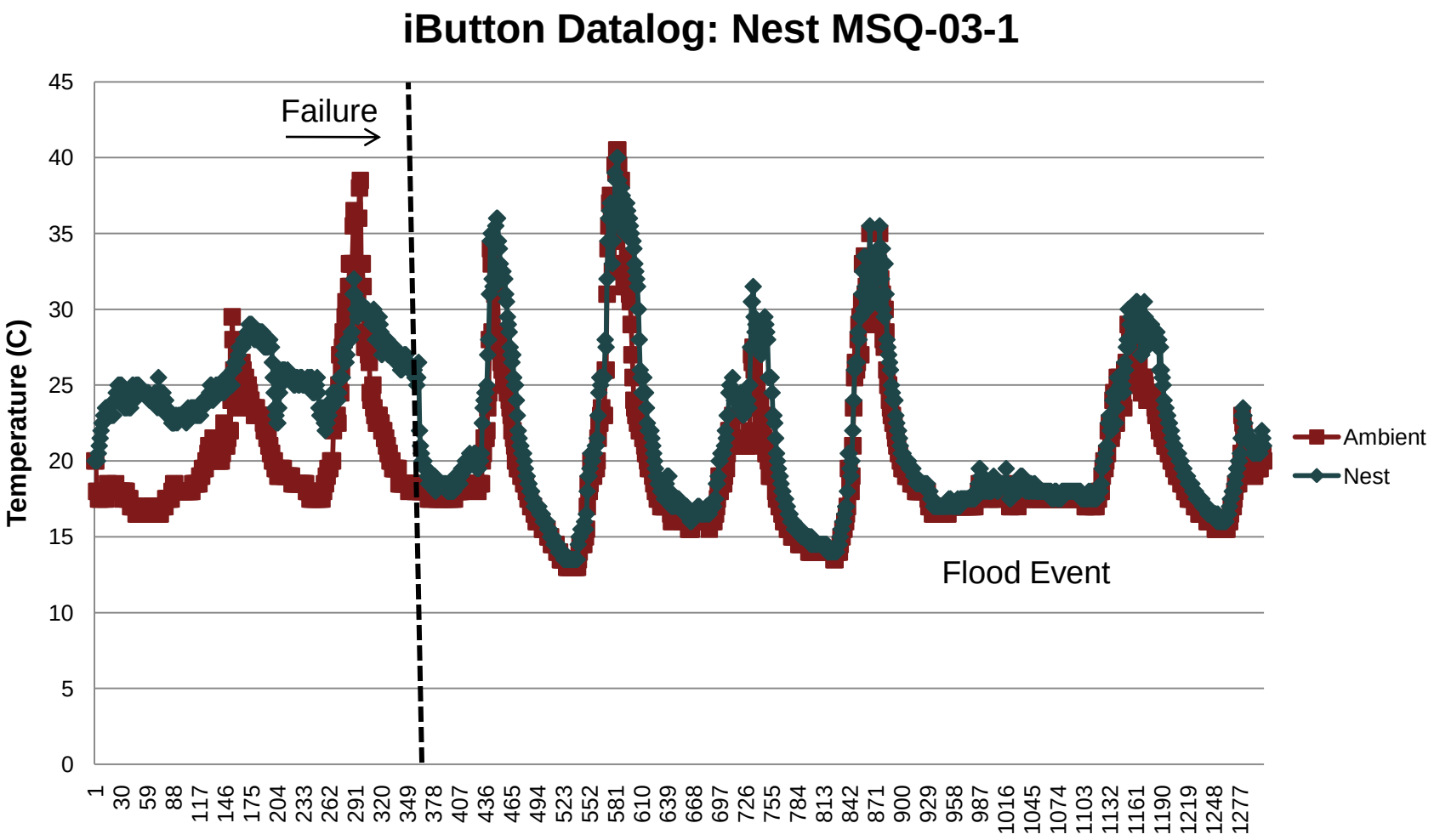


Thermochrom iButton Dataloggers




iButton Datalog: Nest BGU-02-1
Temperature (C)
45
40
35
30
25
20
15
10
5
0
Hatch
1
39
77
115
153
191
229
267
305
343
381
419
457
495
533
571
609
647
685
723
761
799
837
875
913
951
989
1027
1065
1103
1141
1179
1217
1255
1293
1331
1369
1407
1445
1483
1521
1559
1597
1635
1673
1711
1749
1787
Ambient
Nest


iButton Datalog: Nest MSQ-03-1
Temperature (C)
45
40
35
30
25
20
15
10
5
0
1
29
57
85
113
141
169
197
225
253
281
309
337
365
393
421
449
477
505
533
561
589
617
645
673
701
729
757
785
813
841
869
897
925
953
981
1009
1037
1065
1093
1121
1149
1177
1205
1233
1261
1289
Nest


iButton Datalog: Nest MSQ-03-1
Temperature (C)
45
40
35
30
25
20
15
10
5
0
Failure
Flood Event
1
30
59
88
117
146
175
204
233
262
291
320
349
378
407
436
465
494
523
552
581
610
639
668
697
726
755
784
813
842
871
900
929
958
987
1016
1045
1074
1103
1132
1161
1190
1219
1248
1277
Ambient
Nest

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