

Supplementary figures and tables for:

Behavioral Interactions and Mate Compatibility Influence the Reproductive Success of New England Cottontails (*Sylvilagus transitionalis*) in a Conservation Breeding Program

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Table S1: Pairing Schedule

List of pairings (n = 12) and the dates and times females and males occupied the same pen.

Female	Male	Date Female Entered	Time Female Entered	Date Female Left	Time Female left	Total Paired (hrs)	Observed (hrs)
1	1	4/2/2019	14:25	4/4/2019	15:18	48.88	48.88
1	4	4/4/2019	15:30	4/6/2019	15:18	47.8	47.8
2	4	4/2/2019	14:14	4/4/2019	15:23	49.13	49.13
2	1	4/4/2019	15:25	4/6/2019	15:32	48.12	48.12
3	3	3/22/2019	15:24	3/24/2019	14:30	47.06	47.06
3	2	3/24/2019	14:37	3/26/2019	11:28	44.51	44.51
4	2	3/26/2019	11:58	3/28/2019	14:47	50.49	50.49
4	3	3/28/2019	14:57	3/30/2019	14:44	47.47	45.47
5	3	3/26/2019	11:59	3/28/2019	14:50	50.85	50.85
5	2	3/28/2019	14:51	3/30/2019	14:41	47.83	47.83
6	1	3/29/2019	15:02	3/31/2019	15:20	48.18	48.18
6	4	3/31/2019	15:34	4/2/2019	11:49	44.15	44.15

Table S2: 2nd Stage Observer Scores

List of 2nd stage observers and their kappa scores for each behavior recorded in the study and percent agreement for sex identification. The percent of videos coded by each observer is listed in the last column.

2 nd Stage Observer Scores									Amount of Video
Observer	Approach	Dash	Consort	Jump-Circle	Chase	SH	Charge	Sex % Agreement	Percent Coded
1	0.70	0.76	0.77	0.82	0.79	0.89	1.00	86.06	44.46
2	0.80	0.74	0.79	0.96	0.73	1.00	1.00	94.39	11.98
3	0.71	0.73	0.89	0.82	0.95	1.00	1.00	83.09	26.65
4	0.83	0.86	0.79	0.95	0.62	0.80	1.00	92.93	10.93
5	0.71	0.64	0.87	0.81	0.60	0.85	N/A	97.24	5.99
AVG	0.75	0.75	0.82	0.87	0.74	0.91	1.00	90.74	