

Milligan, M. C. and McNew, L. B. 2021. Does researcher activity impact nest survival of sharp-tailed grouse? – Wildlife Biology 2021: wlb.00690

Appendix 1

Table A1. Support for all candidate models evaluating the effects of flushing on sharp-tailed grouse nest survival in 2017 – 2018. The number of parameters (K), AICc values, Δ AICc values, model weights (w_i) and deviance are reported. The time period associated with each "Flush" variable represent the time period over which a potential effect existed.

Model	K	AIC_c	ΔAIC_c	AIC_c w_i	Deviance
Precipitation	2	418.70	0.00	0.11	414.69
Flush (constant) \times Precipitation	4	418.79	0.10	0.11	410.78
Flush (constant) + Precipitation	3	419.03	0.33	0.09	413.02
Flush (5-d) \times Precipitation	4	419.22	0.52	0.09	411.20
Flush (10-d) \times Precipitation	4	419.56	0.86	0.07	411.54
Flush (7-d) \times Precipitation	4	420.26	1.57	0.05	412.25
Flush (14-d) + Precipitation	3	420.29	1.59	0.05	414.28
Flush (10-d) + Precipitation	3	420.61	1.92	0.04	414.60
Flush (7-d) + Precipitation	3	420.65	1.96	0.04	414.64
Flush (1-d) + Precipitation	3	420.66	1.96	0.04	414.65
Flush (3-d) + Precipitation	3	420.66	1.97	0.04	414.65
Flush (5-d) + Precipitation	3	420.66	1.97	0.04	414.65
Flush (3-d) \times Precipitation	4	420.69	2.00	0.04	412.68
Flush (1-d) \times Precipitation	4	421.61	2.92	0.03	413.60
Flush (14-d) \times Precipitation	4	421.83	3.14	0.02	413.82
Flush (constant) \times Female Age	4	423.71	5.01	0.01	415.69
Flush (3-d) \times Female Age	4	423.98	5.28	0.01	415.96
Flush (1-d) \times VOR	4	424.44	5.74	0.01	416.42
Flush (1-d) \times Female Age	4	424.46	5.76	0.01	416.44
VOR	2	424.64	5.95	0.01	420.64
Year	2	424.66	5.96	0.01	420.65
Flush (3-d) \times VOR	4	424.72	6.02	0.01	416.70
Flush (constant) + VOR	3	424.79	6.10	0.01	418.78
Flush (constant) + Year	3	424.95	6.25	0.00	418.94
Flush (14-d) + VOR	3	425.47	6.77	0.00	419.46
Flush (5-d) \times Female Age	4	425.72	7.02	0.00	417.70
Flush (constant) \times Year	4	425.88	7.18	0.00	417.86
Flush (14-d) + Year	3	425.96	7.26	0.00	419.95
Flush (10-d) + VOR	3	426.13	7.43	0.00	420.12

Flush (constant) × VOR	4	426.15	7.45	0.00	418.13
Flush (7-d) + VOR	3	426.27	7.58	0.00	420.26
Flush (10-d) + Year	3	426.42	7.73	0.00	420.41
Flush (1-d) + VOR	3	426.44	7.74	0.00	420.43
Flush (7-d) × VOR	4	426.49	7.79	0.00	418.47
Flush (7-d) + Year	3	426.50	7.81	0.00	420.49
Flush (1-d) + Year	3	426.56	7.86	0.00	420.55
Flush (5-d) + VOR	3	426.62	7.92	0.00	420.61
Flush (3-d) + VOR	3	426.64	7.94	0.00	420.63
Flush (3-d) + Year	3	426.66	7.96	0.00	420.65
Flush (5-d) + Year	3	426.66	7.97	0.00	420.65
Flush (5-d) × VOR	4	426.82	8.13	0.00	418.81
Flush (14-d) × VOR	4	426.91	8.22	0.00	418.90
Flush (14-d) × Female Age	4	427.05	8.35	0.00	419.03
Flush (14-d) + Female Age	3	427.23	8.53	0.00	421.22
Null	1	427.39	8.69	0.00	425.39
Flush (10-d) × VOR	4	427.50	8.80	0.00	419.48
Flush (10-d) × Year	4	427.58	8.88	0.00	419.56
Female Age	2	427.69	9.00	0.00	423.69
Flush (constant)	2	427.79	9.09	0.00	423.78
Flush (10-d) + Female Age	3	427.93	9.24	0.00	421.92
Flush (14-d) × Year	4	427.96	9.27	0.00	419.95
Flush (14-d)	2	428.16	9.46	0.00	424.16
Flush (7-d) × Year	4	428.18	9.48	0.00	420.16
Flush (7-d) + Female Age	3	428.19	9.49	0.00	422.18
Flush (constant) + Female Age	3	428.37	9.67	0.00	422.35
Flush (5-d) × Year	4	428.48	9.78	0.00	420.46
Flush (1-d) × Year	4	428.53	9.84	0.00	420.52
Flush (3-d) × Year	4	428.66	9.97	0.00	420.65
Flush (10-d)	2	428.81	10.11	0.00	424.80
Flush (1-d) + Female Age	3	428.94	10.24	0.00	422.93
Flush (7-d)	2	428.97	10.27	0.00	424.96
Flush (10-d) × Female Age	4	429.08	10.38	0.00	421.06
Flush (5-d) + Female Age	3	429.13	10.43	0.00	423.12
Flush (1-d)	2	429.16	10.46	0.00	425.16
Flush (5-d)	2	429.35	10.65	0.00	425.34
Flush (3-d)	2	429.38	10.68	0.00	425.37
Female Condition	2	429.38	10.69	0.00	425.38
Flush (3-d) + Female Age	3	429.39	10.69	0.00	423.38
Flush (7-d) × Female Age	4	429.44	10.75	0.00	421.42
Flush (constant) + Female Condition	3	429.75	11.05	0.00	423.74
Flush (14-d) + Female Condition	3	430.15	11.45	0.00	424.14
Flush (10-d) + Female Condition	3	430.80	12.10	0.00	424.79
Flush (7-d) + Female Condition	3	430.96	12.26	0.00	424.95
Flush (1-d) + Female Condition	3	431.15	12.46	0.00	425.14

Flush (5-d) + Female Condition	3	431.34	12.64	0.00	425.33
Flush (3-d) + Female Condition	3	431.37	12.67	0.00	425.36
Flush (constant) × Female Condition	4	431.75	13.05	0.00	423.73
Flush (7-d) × Female Condition	4	431.85	13.15	0.00	423.83
Flush (14-d) × Female Condition	4	431.94	13.24	0.00	423.92
Flush (10-d) × Female Condition	4	432.80	14.11	0.00	424.79
Flush (1-d) × Female Condition	4	432.95	14.25	0.00	424.93
Flush (5-d) × Female Condition	4	433.34	14.64	0.00	425.32
Flush (3-d) × Female Condition	4	433.36	14.66	0.00	425.34
