

## Understanding the dynamics of lion attacks on humans and livestock in southern Maasailand, Kenya

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SUPPLEMENTARY TABLE 1 Model comparison showing predictive models of factors affecting the frequency of lion *Panthera leo* attacks on livestock at Olkiramatian and Shompole Maasai group ranches in Kenya during September 2014–November 2016.

Model <sup>1</sup>	K	logLik	AICc	ΔAICc	weight
D ~ L	2	-22.32	49.44	0.00	0.40
D ~ L + P	3	-22.20	52.12	2.68	0.11
D ~ L + R	3	-22.26	52.23	2.79	0.10
D ~ L + S	3	-22.32	52.35	2.91	0.09
Null Model	1	-26.04	54.33	4.89	0.04
D ~ L + P + L:P	4	-21.65	54.38	4.94	0.03
D ~ P	2	-24.79	54.39	4.95	0.03
D ~ L + R + L:R	4	-21.71	54.50	5.06	0.03
D ~ L + P + R	4	-22.17	55.42	5.98	0.02
D ~ L + P + S	4	-22.19	55.46	6.02	0.02
D ~ S	2	-25.34	55.48	6.04	0.02
D ~ L + R + S	4	-22.23	55.53	6.09	0.02
D ~ P + S	3	-24.14	56.00	6.56	0.02
D ~ R	2	-25.76	56.32	6.88	0.01
D ~ R + S	3	-24.73	57.17	7.72	0.01
D ~ P + R	3	-24.76	57.24	7.80	0.01
D ~ P + R + P:R	4	-23.45	57.98	8.54	0.01
D ~ L + P + S + L:P	5	-21.59	58.17	8.73	0.01
D ~ L + P + R + P:R	5	-21.60	58.20	8.76	0.01
D ~ L + P + R + L:P	5	-21.62	58.24	8.80	0.01
D ~ L + R + S + L:R	5	-21.71	58.41	8.97	0.01
D ~ L + P + R + L:R	5	-21.71	58.42	8.98	0.01
D ~ P + R + S	4	-23.93	58.94	9.50	0.00
D ~ L + P + R + S	5	-22.13	59.26	9.82	0.00
D ~ P + R + S + P:R	5	-23.17	61.34	11.90	0.00
D ~ L + P + R + L:P + P:R	6	-21.30	62.24	12.80	0.00
D ~ L + P + R + L:P + L:R	6	-21.32	62.27	12.83	0.00

*SUPPLEMENTARY TABLE 1, continued.*

<b>Model<sup>1</sup></b>	<b>K</b>	<b>logLik</b>	<b>AICc</b>	<b>ΔAICc</b>	<b>weight</b>
D ~ L + P + R + L:R + P:R	6	-21.43	62.49	13.05	0.00
D ~ L + P + R + S + L:P	6	-21.49	62.61	13.17	0.00
D ~ L + P + R + S + P:R	6	-21.60	62.84	13.39	0.00
D ~ L + P + R + S + L:R	6	-21.70	63.04	13.60	0.00
D ~ L + P + R + L:P + L:R + P:R + L:P:R	8	-17.54	67.08	17.64	0.00
D ~ L + P + R + L:P + L:R + P:R	7	-21.18	67.56	18.12	0.00
D ~ L + P + R + S + L:P + L:R	7	-21.27	67.74	18.30	0.00
D ~ L + P + R + S + L:P + P:R	7	-21.28	67.76	18.32	0.00
D ~ L + P + R + S + L:R + P:R	7	-21.42	68.04	18.60	0.00
D ~ L + P + R + S + L:P + L:R + P:R	8	-21.17	74.34	24.90	0.00
D ~ L + P + R + S + L:P + L:R + P:R + L:P:R	9	-17.05	74.59	25.15	0.00

<sup>1</sup>D, Monthly no. of lion predation incidents; L, livestock density; S, settlements (no. of occupied settlements within the study area); P, prey density