

Figure S1. Comparison of standardized (expressed on the scale of 0 to 1) average HSI values calculated for administrative districts with standardized moose density values (5-year averages for 2009–2013) calculated for the districts. Dark green bars – standardized average HSI values, light green – standardized average moose density, based on 5 years of field census data

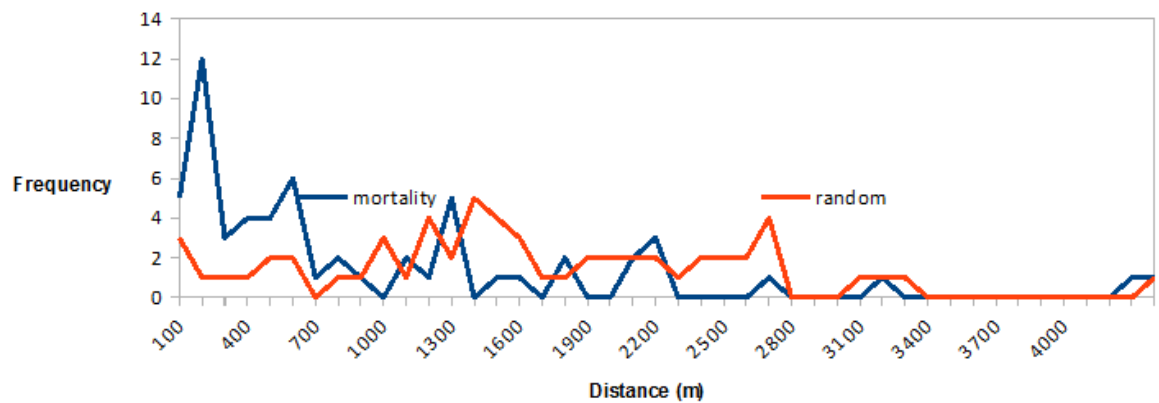


Figure S2. Line histogram comparing the frequencies of distances from MVC and random locations to habitat patches with above-average HSI values

Table S1. Evaluation of the moose movement model prognostic possibilities for highway A1, comparing with MVC 2015–2017: Rc – cumulative segment rank, Npath – number of pathways crossing the segment. Dist. – distance (km) between MVC and nearest Rc/Npath value.

Year	Highway no	MVC km	Rc	Npath	Dist.
2017	A1	18.30*	0.82	50	10
2017	A1	18.50*	0.82	50	10
2017	A1	29.00	0.82	50	0
2015	A1	42.00	0.4	40	2
2015	A1	43.00	0.4	40	1

2017	A1	43.00	0.4	40	1
2017	A1	45.00	0.4	40	1
2017	A1	45.00	0.4	40	1
2016	A1	47.00	0.4	40	3
2015	A1	51.00	0.64	30	6
2015	A1	60.13	0.63	38	0
2017	A1	67.43	0.48	188	0.5
2015	A1	67.90	0.48	188	0.1
2016	A1	68.16	0.48	188	0
2017	A1	69.00	0.48	188	1
2016	A1	76.15	0.75	56	4
2016	A1	91.29**	0.98	109	8
2016	A1	91.99**	0.98	109	8
2015	A1	93.88**	0.98	109	10
2017	A1	115.00	0.47	39	0
2015	A1	121.15	0.65	21	5
2016	A1	126.70	0.65	21	0
2016	A1	136.00	0.82	35	2
2016	A1	136.00	0.82	35	2
2016	A1	136.00	0.82	35	2
2015	A1	136.60	0.82	35	1.5
2015	A1	136.60	0.82	35	1.5
2015	A1	149.80	0.56	58	0.3
2016	A1	151.70	0.56	58	0
2016	A1	155.50	0.45	16	0.5
2016	A1	160.75	0.43	59	1.7
2017	A1	172.89	0.63	29	11
2016	A1	178.10	0.63	29	6
2016	A1	178.10	0.63	29	5.9
2017	A1	178.72	0.63	29	5.3
2016	A1	180.00	0.63	29	4
2016	A1	183.50	0.63	29	0.5
2015	A1	186.10	0.72	36	0
2016	A1	192.28	0.59	23	3.7
2016	A1	192.35	0.59	23	3.7
2015	A1	192.50	0.59	23	3.5
2016	A1	195.10	0.59	23	0.9
2016	A1	197.60	0.59	23	0.6
2017	A1	224.60	0.64	36	4.4
2016	A1	291.00	0.42	45	0
2017	A1	293.00	0.42	45	1
2016	A1	294.00	0.42	45	2
2016	A1	295.80	0.42	16	3.8
2017	A1	301.00*	0.42	16	10
2015	A1	301.30*	0.42	16	10.3
2015	A1	302.80*	0.42	16	12.8
2016	A1	306.00*	0.42	16	14

2015	A2	12.00***	0.75	76	8
2017	A2	12.00***	0.75	76	8
2015	A2	13.00***	0.75	76	8
2016	A2	13.00***	0.75	76	8
2015	A2	14.00***	0.75	76	8
2016	A2	14.31***	0.75	76	8
2017	A2	15.00	0.75	76	5
2015	A2	17.00	0.75	76	3
2017	A2	17.00	0.75	76	3
2015	A2	19.00	0.75	76	1
2015	A2	20.70	0.8	78	0
2015	A2	21.45	0.8	73	0
2016	A2	33.00	0.76	27	0
2015	A2	41.94	0.94	22	2
2015	A2	64.70	0.89	34	3.7
2016	A2	83.00	0.7	25	1
2017	A2	83.10	0.7	25	0.9
2016	A2	83.70	0.7	25	0.3
2015	A2	84.70	0.7	25	0.7
2016	A2	86.80	0.7	25	1.8
2015	A2	87.70	0.7	25	2.7
2015	A2	94.00	1	22	0
2015	A2	102.30	0.96	58	1.3
2017	A2	109.20	0.96	46	2.2
2015	A2	109.70	0.96	46	2.7
2017	A2	116.80	0.61	68	1.8

* limited possibility of testing, model starts at 25 km and ends at 299 km of A1, and starts at 15 km of A2

** – MVC in Kaunas city, HSI not available at the spot, as habitat not suitable

*** – MVC in Vilnius city, HSI not available at the spot, as habitat not suitable