

**TABLE 1 Summary of geospatial moose population estimates (GSPE) in Unit 21E, 2012 – 2022<sup>a</sup>**

Location and survey year	Survey area (mi <sup>2</sup> )	Strata size (mi <sup>2</sup> )		Area searched (mi <sup>2</sup> )		Total search area (mi <sup>2</sup> )	No. of moose estimated by strata and density (moose/mi <sup>2</sup> )				Total estimate @ 90% CI	Average density moose/mi <sup>2</sup>	No. of sample units counted
		Low	High	Low	High		Low	High					
2012 GSPE <sup>b</sup>	4,044 <sup>c</sup>	3,145	899	229	696	925	1,470	(0.5)	3,928	(4.4)	5,398±19%	1.3	150
2016 GSPE	4,094	2,779	1,314	320	579	899	2,419	(0.9)	5,953	(4.5)	8,372 ±18%	2.0	146
2019 GSPE	4,094	2,115	1,979	296	629	925	717	(0.3)	7,890	(4.0)	8,607 ±27%	2.1	150
2022 GSPE	4,094	2,115	1,979	167	765	932	851	(0.4)	6,888	(3.5)	7,739 <sup>d</sup>	1.9	151

<sup>a</sup> All estimates include a SCF.

<sup>b</sup> Data from a larger 2012 survey was used to produce an estimate for just the WCFA.

<sup>c</sup> This area is slightly smaller than subsequent years because it does not include includes 8 new units that were later added (SU's 692-695 and 719-722).

<sup>d</sup> Total estimate includes applied SCF value of 1.26. This value was derived from the average of SCF values produced during 2012–2019 surveys.

**Table 2. Composition survey results in 21E from 2016-2022.**

Year	Total Moose	Total Calves	Total Bulls	Total Cows	Percent Calves	Calves:cows	Bull:Cow
2016	248	55	55	138	22%	40:100	40:100
2017	272	63	41	168	23%	38:100	24:100
2018	211	23	56	132	11%	17:100	42: 100
2022	162	16	46	100	10%	16:100	46:100

**Table 3. Twinning rates Shageluk area.**

Year	Total Moose	Total Calves	Percent Calves	Cows w/calves	Singletons	Twins	Twinning Rate
2016	109	28	26%	23	16	7	30%
2017	212	74	35%	50	26	24	48%
2018	267	71	27%	54	38	16 <sup>a</sup>	30%
2019	170	78	46%	58	38	20	34%
2021	336	114	34%	76	39	37 <sup>a</sup>	48%
2022	--	--	--	66	41	25	38%
2-year average							43%

<sup>a</sup> included 1 set of triplets.

**Table 4. Twinning rates Holy Cross area.**

Year	Total Moose	Total Calves	Percent Calves	Cows w/calves	Singletons	Twins	Twinning Rate
2016	199	60	30%	44	28	16	36%
2017	425	132	31%	104	78	30	27%
2018	417	72	17%	66	60	6	9%
2019	317	91	29%	80	69	11	14%
2020	126	49	39%	40	31	9	23%
2022	--	--	--	38	27	11	29%
2-year average							26%

**Table 5. 21A Moose Harvest RM835**

21A RM835	Nonresidents			Residents		
	Unsuccessful	Successful	Total	Unsuccessful	Successful	Total
2020	33	49	82	29	27	56
2021	45	65	110	27	30	57
2022	55	54	109	13	13	26

**Table 6. 21A Composition Data**

	Bulls:100 Cows
2019	54
2020	51
2021	28
2022	

**Table 7. 21E Fall Moose Harvest RM836**

21E Fall RM836	Unsuccessful	Successful	Total
2018	102	170	272
2019	79	148	227
2020	55	88	143
2021	64	133	197
2022	69	121	190

**Table 8. 21E Winter Moose Harvest RM837**

21E Winter RM837	Unsuccessful	Successful	Total
2020	0	6	6
2021	2	6	8
2022	2	9	11

**Table 9. 21E Nonresident Harvest DM837 (42 permits) and DM839 (18 permits)**

	DM837			DM839		
	Successful	Unsuccessful	Total Hunters	Successful	Unsuccessful	Total Hunters
2018	19	7	26	7	7	14
2019	12	6	18	10	4	14
2020	21	1	22	6	0	6
2021	29	4	33	8	3	11
2022	23	7	30	4	5	9