

Table 27. Grizzly bear (*Ursus arctos*) mark–resight density estimates summarizing daily sightability of radio-collared individuals, bear-days, population, and density estimates with their associated 80% confidence intervals (CI) for both adults (>3 years) and bears of all ages for a census within the 1,862-km² Red Dog Mine study area of northwestern Alaska from 29 May through 4 June 1987.

Day	Sightability	Cum. n_1^a	Cum. n_2^b	Cum. n_2^c	Estimated total bear-days			Estimated average number of bears			Density (km ² /bear)		
					Number	80% CI		Number	80% CI		Number	80% CI	
						Lower	Upper		Lower	Upper		Lower	Upper
Adult bears													
1	0.000	8	0	9	89.0	35.4	—	89.0	35.4	—	20.9	—	52.6
2	0.300	18	3	18	89.3	53.9	285.7	44.6	26.9	142.9	41.7	13.0	69.1
3	0.231	31	6	26	122.4	83.7	246.0	40.8	27.9	82.0	45.6	22.7	66.7
4	0.176	48	9	30	150.9	111.1	252.6	37.7	27.8	63.2	49.4	29.5	67.0
5	0.444	66	17	43	162.8	130.7	224.5	32.6	26.1	44.9	57.1	41.5	71.2
6	0.450	86	26	52	169.8	144.1	213.4	28.3	24.0	35.6	65.8	52.4	77.6
7	0.400	106	34	64	197.7	176.1	247.7	28.2	25.2	35.4	66.0	52.6	74.0
Total bears													
1	0.000	10	0	11	131.0	52.9	—	131.0	52.9	—	14.2	—	35.2
2	0.250	22	3	26	154.3	92.1	511.6	77.1	46.0	255.8	24.2	7.3	40.5
3	0.278	40	8	36	167.6	119.0	298.5	55.9	39.7	99.5	33.3	18.7	46.9
4	0.250	64	14	43	189.7	147.5	277.1	47.4	36.9	69.3	39.3	26.9	50.5
5	0.520	89	27	61	198.3	166.7	250.0	39.7	33.3	50.0	46.9	37.2	55.9
6	0.333	116	36	70	223.5	194.3	269.1	37.3	32.4	44.9	49.9	41.5	57.5
7	0.481	143	49	89	258.2	229.9	299.8	36.9	32.8	42.8	50.5	43.5	56.7

^a Number of marked bears in population.

^b Number of marked bears observed in population.

^c Total number of bears observed.