

Table 3. Distribution of polar bears observed during 10-05-00 survey. AF = Adult Female; AM = Adult Male; SA = Sub-Adult (2.5-5 year-old); YEAR = Yearling (1-2.5 year-old); COY = cub of the year (<1 year old); UA = Unidentified Adult (> 5 years old); and Unknown = unknown age or sex animal.

Sighting Number	Number of Polar Bears	Age/Sex Composition	Location
1	4	1 AM; 1 AF with 1 YEAR; 1 Unknown	Cross Island
2	1	1 AM	Cross Island
3	1	1 AF	shore-fast ice near Flaxman Island
4	1	1 AF	in water near Flaxman Island
5	7	2 AF with 2 COYS; 3 UA	Barter Island
6	2	2 UA	Bernard Spit
7	11	1 AF with 1 COY; 9 UA	Bernard Spit
8	3	1 AF with 1 COY; 1 SA	Jago Spit
9	2	2 Unknown	shore-fast ice near Jago Spit
10	3	3 UA	Jago Spit
11	3	1 AF with 2 YEAR	Jago Spit
12	8	1 AF with 2 YEAR; 3 SA; 2 AM	Jago Spit
13	3	1 AF with 1 YEAR; 1 Unknown	Jago Spit
14	1	1 Unknown	shore-fast ice near Jago Spit
15	3	1 AF with 1 COY; 1 Unknown	Barter Island
16	3	3 Unknown	Jago Spit
17	2	1 AF with 1 COY	mainland near Manning Point
18	1	1 AM	mainland near Manning Point
19	1	1 Unknown	barrier island near Konganevik Point
20	1	1 Unknown	mainland near Brownlow Point
21	1	1 Unknown	mainland near Brownlow Point
22	1	1 Unknown	mainland near Point Thompson
23	3	1 AF with 2 COYs	shore-fast ice in Mikkelsen Bay
24	1	1 SA	mainland near Sagavanirktok River
25	2	1 AF with 1 YEAR	shore-fast ice near Spy Island
26	1	1 Unknown	Leavitt Island
27	2	2 SA	shore-fast ice near Pingok Island
Total	72		

Table 4. Distribution of polar bears observed during 10-12-00 survey. AF = Adult Female; AM = Adult Male; SA = Sub-Adult (2.5-5 year-old); YEAR = Yearling (1-2.5 year-old); COY = cub of the year (<1 year old); UA = Unidentified Adult (> 5 years old); and Unknown = unknown age or sex animal.

Sighting Number	Number of Polar Bears	Age/Sex Composition	Location
1	1	1 SA	Cross Island
2	2	1 AF with 1 YEAR	Narwhal Island
3	1	1 AF	shore-fast ice near Flaxman Island
4	6	1 AF with 3 COYs; 1 AF with 1 COY	Jago Spit
5	2	1 AF with 1 COY	Jago Spit
6	4	1 AM; 3 SA	Jago Spit
7	3	1 AF with 1 COY; 1 Unknown	Jago Spit
8	3	1 AF with 2 COYs	shore-fast ice near Jago Spit
9	2	2 Unknown	shore-fast ice near Jago Spit
10	2	2 Unknown	Jago Spit
11	2	1 AF with 1 YEAR	Jago Spit
12	1	1 Unknown	Jago Spit
13	2	2 Unknown	mainland near Manning Point
14	2	2 Unknown	Barter Island
15	1	1 AM	Barter Island
16	2	1 AF with 1 COY	Arey Island
17	1	1 AM	shore-fast ice near Konganevik Point
18	1	1 AF	mainland near Bullen Point
Total	38		

Table 5. Age and sex composition of polar bears sighted during aerial surveys along the coast and barrier islands of the Beaufort Sea, Alaska, September-October, 2000. Adult animals = > 5 years old; Sub-Adult = 2.5-5 years old; Yearling = 1-2.5 years old; Cub-of-the-Year = <1 year old; Other Unknown = unknown age or sex.

Survey Date	Age Class							Total Observed
	Adult Females	Adult Males	Sub-Adults	Yearlings	Cubs-of-the-Year	Adults of Unknown Sex	Other Unknown	
09-21-00	15	0	0	7	15	8	4	49
09-28-00	14	0	0	6	16	0	37	73
10-05-00	14	5	7	7	8	17	14	72
10-12-00	10	3	4	2	9	0	10	38
Total	53	8	11	22	48	25	65	232

Table 6. Frequency rate of polar bears observed during aerial surveys along the coast and barrier islands of the Beaufort Sea, Alaska, September-October, 2000. Flight distances varied due to presence of fog, shore-fast ice, and slight deviations in survey routes.

Survey date	Number of Polar Bears Observed/Survey Kilometer				
	Atigaru Point to Prudhoe Bay	Prudhoe Bay to Brownlow Point	Brownlow Point to Barter Island	Barter Island to Jago Spit	Average/survey
09-21-00	1/245 = .00	17/261 = .07	5/106 = .05	26/64 = .41	49/676 = .07
09-28-00	4/229 = .02	12/259 = .05	0/106 = .00	57/64 = .89	73/658 = .11
10-05-00	5/280 = .02	14/254 = .06	1/106 = .01	52/64 = .81	72/704 = .10
10-12-00	0/293 = .00	5/269 = .02	1/106 = .01	32/66 = .49	38/734 = .05
Average/segment	10/1,047 = .01	48/1,043 = .05	7/424 = .02	167/258 = .65	

Table 7. Habitat types used by numbers of polar bears observed during aerial surveys along the coast and barrier islands of the Beaufort Sea, Alaska, September-October 2000. Barter Island was included as "mainland" for purposes of these analyses because of its proximity and physical similarity to mainland, versus the barrier islands which typically occur further off-shore, and are long and narrow in form.

Survey Date	Barrier Island	Mainland	Shore-fast Ice	Open Water
09-21-00	45	4	0	0
09-28-00	53	13	3	4
10-05-00	43	17	11	1
10-12-00	25	6	7	0
Total	166	40	21	5

Table 8. Additional wildlife observed during aerial surveys along the coast and barrier islands of the Beaufort Sea, Alaska, September-October 2000.

Species	09-21-00	09-28-00	10-05-00	10-12-00
Ringed Seal		1	23	4
Bearded Seal			1	
Spotted Seal			1	
Unknown Seal	1		21	2
Bowhead Whale		1		
Beluga Whale			1	
Brown Bear			1	
Arctic Fox			1	2
Red Fox			2	1
Caribou			40	65

APPENDIX 1. DATA SHEETS AND SURVEY CODES