



Figure 5. Locations of arctic fox dens and suitable fox denning habitat in the Point Thomson Unit, Alaska, summer 2000.



Figure 6. Live-captured arctic fox (AF001) waiting to be processed at den 212, September 2000.

Table 6. Capture location and characteristics of live-captured arctic fox between the Sagavanirktok and Staines rivers, Alaska, fall 2000.

Date	Animal Number	Capture Den Number	Collar Color Combinations	Sex	Age	Weight (kg)	Measurements (cm)				
							Body	Neck	Left Hind Foot	Ear	Tail
1-Sep	AF001 <sup>a</sup>	212	Orange/Blue	Male	Adult	3.5	89.0	16.5	14.5	7.0	28.0
2-Sep	AF002	217	Yellow/Red	Female	Juvenile	2.5	81.5	16.3	13.0	5.5	28.0
2-Sep	AF003	217	Yellow/Red	Male	Juvenile	2.8	81.5	16.5	13.5	5.8	26.0
3-Sep	AF004	218	Red/Blue	Male	Adult	3.7	96.0	19.5	15.0	7.0	33.0

<sup>a</sup>Recovery location: 148.64535W 69.60715N



Figure 7. Live-captured AF001 was released at its den after processing, July 2000.

Table 7. Densities of arctic fox dens in undeveloped and developed areas on the Alaskan Arctic coastal Plain near the North Slope oilfields.

<b>Location</b>	<b>Density</b>	<b>Citation</b>
<b>Undeveloped areas</b>		
Sagavanirktok to Staines Study Area	1 den/51 km <sup>2</sup>	This study
Badami Study Area	1 den/41 km <sup>2</sup>	This study
Bullen to Staines Study Area	1 den/36 km <sup>2</sup>	This study
Remote area of Prudhoe Bay oilfield	1 den/29 km <sup>2</sup>	Ballard et al. 2000
Colville River delta	1 den/42 km <sup>2</sup>	Garrott 1980
Colville River delta	1 den/34 km <sup>2</sup> 1 den/km <sup>2</sup>	Eberhardt et al. 1983b
Remote area of Prudhoe Bay oilfield	1 den/72 km <sup>2</sup>	Burgess et al. 1993
Colville River delta - Alpine Transportation Corridor	1 den/21 km <sup>2</sup>	Johnson et al. 1997
<b>Developed areas</b>		
Prudhoe Bay oilfield	1 den/15 km <sup>2</sup>	Ballard et al. 2000
Prudhoe Bay oilfield	1 den/13 km <sup>2</sup>	Burgess et al. 1993
Prudhoe Bay oilfield	1 den/12 km <sup>2</sup>	Eberhardt et al. 1983b

**APPENDIX A.**

**Arctic Fox Den History**

Table A1. Arctic fox den site locations and history of occupancy in the Badami and Bullen to Staines study areas, Alaska, between 1972 and 2000. A = active, I = inactive, N = active earlier in season, but abandoned at the time of the survey, NF = within the study area, but not found, O = outside the study area,

Den No.	Study Area	Longitude (°W)	Latitude (°N)	1972 <sup>a</sup>	1979 <sup>b</sup>	1983 <sup>c</sup>	1991 <sup>b</sup>	1992 <sup>b</sup>	1993 <sup>d</sup>	1999 <sup>e</sup>	2000
34	Badami	147.8728160	70.2016740	U	A	O	A	A	O	I	A
70	Badami	147.8789240	70.1816730	U	U	O	U	I	O	I	N
82	Badami	147.2261210	70.1530720	U	U	O	U	A	O	I	I
83	Badami	147.0930620	70.1537400	U	U	O	U	A	O	A	I
84	Badami	147.1191947	70.1091820	U	U	O	U	A	O	I	A
85	Badami	147.7250240	70.1394520	U	U	O	U	A	O	I	I
87	Badami	147.4194620	70.1630690	U	U	O	U	A	O	A	N
88	Badami	147.5191900	70.1777900	U	U	O	U	A	O	A	A
89	Badami	147.1727730	70.0608470	U	U	O	U	I	O	N	A
90	Badami	147.4394470	70.0550090	U	U	O	U	I	O	A	A
91	Badami	147.6900160	70.0905620	U	U	O	U	I	O	N	A
92	Badami	147.8069720	70.1494510	U	U	O	U	I	O	I	I
93	Badami	147.9925310	70.1297250	U	U	O	U	A	O	A	A
94	Badami	148.1230910	70.1372230	U	U	O	U	I	O	I	A
96	Badami	147.9572470	70.0983350	U	U	O	U	I	O	I	A
100	Badami	148.1711500	70.1500000	U	U	O	U	A	U	I	I
201	Badami	147.1714333	70.1331667	-	-	-	-	-	-	A	N
202	Badami	147.1583500	70.1565666	U	U	O	U	U	O	A	A
205	Badami	147.3719000	70.0657000	I	U	O	U	U	O	I	I
206	Badami	147.4080000	70.0825000	I	U	O	U	U	O	I	I
207	Badami	147.4079000	70.0815833	U	U	O	U	U	O	I	I
208	Badami	148.0655330	70.1713166	A	U	O	U	U	O	I	I
209	Badami	147.4659333	70.0702333	I	U	O	U	U	O	A	A
210	Badami	147.5009666	70.0979166	I	U	O	U	U	O	I	I
211	Badami	148.0118000	70.0381166	A	U	O	U	U	O	A	A
212	Badami	147.3503700	70.1330900	U	U	O	U	U	O	NF	A
99	Bullen	146.9780410	70.0364050	U	U	O	U	I	O	I	I
203	Bullen	146.2506000	70.1547500	U	U	A	O	O	O	A	N
204	Bullen	146.1198166	70.1373666	U	U	I	O	O	O	N	I
217	Bullen	146.4426800	70.1374900	U	U	NF	O	O	O	NF	A
218	Bullen	146.3394800	70.1732700	U	U	NF	O	O	O	NF	A
219	Bullen	146.2494500	70.1552500	U	U	U	O	O	O	U	I
220	Bullen	146.1546600	70.1562000	U	U	NF	O	O	O	NF	A

<sup>a</sup> Data from Quimby and Snarski (1974)

<sup>b</sup> Data from Burgess and Banyas (1993)

<sup>c</sup> Data from WCC and ABR (1983)

<sup>d</sup> Data from Rodrigues et al. (1994)

<sup>e</sup> Data from Perham (2000)