

Appendix 2. Supplemental data on the perceived importance of factors influencing health, abundance, and hunting success of key subsistence species in Wainwright, Alaska

Table A2.1. Results of surveys assessing factors influencing health, abundance and hunting success of caribou, bowhead whales, walruses, and bearded seals harvested in Wainwright, Alaska. Numbers reflect the proportion of workshop participants who considered each factor as very important, somewhat important, or not important. Standard errors of proportions are also shown.

Species	Influence on	Factor	Very important		Somewhat important		Not important		Unknown/ No response	
			Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error
Caribou	Health & abundance	Synchrony of calf birth	0.78	0.14	0.00	0.00	0.00	0.00	0.22	0.14
		Predator abundance	0.56	0.17	0.44	0.17	0.00	0.00	0.00	0.00
		Summer temperature	0.44	0.17	0.33	0.16	0.00	0.00	0.22	0.14
		Summer forage quality	0.78	0.14	0.11	0.10	0.00	0.00	0.11	0.10
		Insect abundance	0.25	0.15	0.63	0.17	0.00	0.00	0.13	0.12
		Lichen abundance/accessibility	0.67	0.16	0.22	0.14	0.00	0.00	0.11	0.10
		Snow depth and compaction	0.78	0.14	0.11	0.10	0.00	0.00	0.11	0.10
		Winter temperature	0.44	0.17	0.44	0.17	0.00	0.00	0.11	0.10
		Frequency of freezing rain/icing events	0.78	0.14	0.00	0.00	0.00	0.00	0.22	0.14
		Timing of spring migration	0.22	0.14	0.67	0.16	0.00	0.00	0.11	0.10
		Timing of fall migration	0.13	0.12	0.63	0.17	0.00	0.00	0.25	0.15
		Disturbance by humans (vehicles, aircraft)	0.33	0.16	0.44	0.17	0.22	0.14	0.00	0.00
		Harvest by hunters	0.22	0.14	0.56	0.17	0.22	0.14	0.00	0.00
Caribou	Hunting success	Abundance of caribou	0.67	0.16	0.33	0.16	0.00	0.00	0.00	0.00
		Timing of spring migration	0.00	0.00	0.78	0.14	0.11	0.10	0.11	0.10
		Timing of fall migration	0.67	0.16	0.22	0.14	0.00	0.00	0.11	0.10

Species	Influence on	Factor	Very important		Somewhat important		Not important		Unknown/ No response	
			Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error
Caribou		Access to hunting equipment	0.67	0.16	0.11	0.10	0.11	0.10	0.11	0.10
		Hunter expertise	0.33	0.16	0.44	0.17	0.11	0.10	0.11	0.10
		Price of fuel	0.83	0.15	0.00	0.00	0.00	0.00	0.17	0.15
Bowhead whale	Health & abundance	Extent of sea ice retreat	0.33	0.16	0.33	0.16	0.11	0.10	0.22	0.14
		Timing of sea ice breakup	0.33	0.16	0.56	0.17	0.00	0.00	0.11	0.10
		Zooplankton prey abundance	0.78	0.14	0.11	0.10	0.00	0.00	0.11	0.10
		shipping traffic	0.22	0.14	0.33	0.16	0.11	0.10	0.33	0.16
		harvest by hunters	0.44	0.17	0.22	0.14	0.22	0.14	0.11	0.10
		Predators (killer whales)	0.20	0.18	0.20	0.18	0.20	0.18	0.40	0.22
	Hunting success	Abundance of whales	0.75	0.15	0.13	0.12	0.13	0.12	0.00	0.00
		Timing of migration	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Timing of sea ice breakup	0.88	0.12	0.13	0.12	0.00	0.00	0.00	0.00
		Duration of break up period	0.50	0.18	0.38	0.17	0.00	0.00	0.13	0.12
		Shorefast ice thickness	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Distance from shore of migrating whales	0.63	0.17	0.25	0.15	0.13	0.12	0.00	0.00
		Access to hunting equipment	0.88	0.12	0.13	0.12	0.00	0.00	0.00	0.00
		Hunter expertise	0.88	0.12	0.13	0.12	0.00	0.00	0.00	0.00
		Weather (storms etc)	0.50	0.25	0.00	0.00	0.25	0.22	0.25	0.22

Species	Influence on	Factor	Very important		Somewhat important		Not important		Unknown/ No response	
			Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error
Bearded seal	Health & abundance	Sea Ice thickness	0.56	0.17	0.33	0.16	0.11	0.10	0.00	0.00
		Extent of sea ice retreat	0.56	0.17	0.22	0.14	0.00	0.00	0.22	0.14
		Timing of sea ice breakup	0.44	0.17	0.44	0.17	0.00	0.00	0.11	0.10
		benthic prey abundance	0.56	0.17	0.22	0.14	0.11	0.10	0.11	0.10
		shipping traffic	0.13	0.12	0.38	0.17	0.13	0.12	0.38	0.17
		harvest by hunters	0.44	0.17	0.44	0.17	0.11	0.10	0.00	0.00
	Hunting success	Abundance of bearded seals	0.78	0.14	0.22	0.14	0.00	0.00	0.00	0.00
		Timing of spring migration	0.78	0.14	0.22	0.14	0.00	0.00	0.00	0.00
		Timing of sea ice breakup	0.78	0.14	0.22	0.14	0.00	0.00	0.00	0.00
		Duration of break up period	0.67	0.16	0.22	0.14	0.00	0.00	0.11	0.10
		Location of seals relative to shoreline	0.75	0.15	0.25	0.15	0.00	0.00	0.00	0.00
		Amount of broken ice near shore	0.89	0.10	0.11	0.10	0.00	0.00	0.00	0.00
		Access to hunting equipment	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Walrus	Health & abundance	Hunter expertise	0.67	0.16	0.33	0.16	0.00	0.00	0.00	0.00
		Sea Ice thickness	0.75	0.15	0.25	0.15	0.00	0.00	0.00	0.00
		Extent of sea ice retreat	0.88	0.12	0.13	0.12	0.00	0.00	0.00	0.00
		Timing of sea ice breakup	0.38	0.17	0.50	0.18	0.00	0.00	0.13	0.12
		Benthic prey abundance	0.63	0.17	0.25	0.15	0.00	0.00	0.13	0.12
		Shipping traffic	0.25	0.15	0.13	0.12	0.25	0.15	0.38	0.17
		Harvest by hunters	0.38	0.17	0.50	0.18	0.13	0.12	0.00	0.00
		Haulout disturbance	0.67	0.27	0.33	0.27	0.00	0.00	0.00	0.00

Species	Influence on	Factor	Very important		Somewhat important		Not important		Unknown/ No response	
			Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error	Proportion	Standard Error
Walrus	Hunting success	Abundance of walruses	0.89	0.10	0.11	0.10	0.00	0.00	0.00	0.00
		Timing of spring migration	0.50	0.18	0.25	0.15	0.13	0.12	0.13	0.12
		Timing of sea ice breakup	0.63	0.17	0.25	0.15	0.13	0.12	0.00	0.00
		Duration of break up period	0.50	0.18	0.38	0.17	0.13	0.12	0.00	0.00
		Distance from shore of migrating walruses	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Amount of broken ice near shore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Access to hunting equipment	0.88	0.12	0.13	0.12	0.00	0.00	0.00	0.00
		Hunter expertise	0.75	0.15	0.25	0.15	0.00	0.00	0.00	0.00