

6B-1.0 AVERAGE CLIMATE DATA OVER A 29 YEAR PERIOD FOR WHITEHORSE AND MAYO

Carmacks
Yukon Territory
1961 – 1990

Latitude: 62°6' N Longitude: 136°18' W

Temperature:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Daily (°C)	-28.6	-18.2	N	N	7.2	12.9	14.8	12.5	6.9	-1.6	-14.7	-24.7	N
Daily Maximum (°C)	-23.8	-12.1	N	N	14.5	20.3	21.9	19.6	13.3	3.1	-10.7	-20.1	N
Daily Minimum (°C)	-33.6	-25.3	N	N	-0.2	5.3	7.6	5.3	0.4	-6.3	-19	-29.6	N
Extreme Maximum (°C)	6	12.8	14.4	23.3	35	35	31.7	32	27	18.3	12.8	8	
Date(yyyy/dd)	1980/22	1968/27	1965/09	1976/29	1983/30	1969/15+	1971/13	1989/13	1989/09	1964/07	1970/02	1986/09+	
Extreme Minimum (°C)	-57.8	-57.2	-50	-32	-12.2	-3.9	-1.1	-5	-16.5	-32.5	-46.7	-54.4	
Date(yyyy/dd)	1966/04	1968/03	1972/09+	1986/10	1964/09	1965/20	1970/19	1974/24	1983/27	1982/28	1963/24	1964/30	
Precipitation:													
Rainfall (mm)	0	0	0.2	1.1	18.3	34.5	55.1	39.3	29.5	5.2	0.4	0	183.6
Snowfall (cm)	17.9	12.3	6.8	5.4	1.1	0	0	0	1	14	17.9	15.3	91.7
Precipitation (mm)	17.9	12.3	7	6.8	20.1	34.5	55.1	39.4	30.6	19.2	18.3	15.3	276.7
Snow Depth at Month-end (cm)	N	N	N	2	0	0	0	0	0	N	17	28	
Extreme Daily Rainfall (mm)	0	0	2.5	3.8	10.2	24.4	31.4	19.2	19.6	7.6	8.6	0	
Date(yyyy/dd)	1990/31+	1990/28+	1970/31+	1981/27	1976/29	1983/02	1982/30	1983/10	1963/12	1977/11	1967/19	1990/31+	
Extreme Daily Snowfall (cm)	16	23	8.6	12	10.4	0	0	1	4.3	13.4	13.2	16	
Date(yyyy/dd)	1990/01	1987/25	1967/03	1986/07	1965/03	1990/30+	1990/31+	1984/27	1968/23	1982/03	1966/17	1989/31	
Extreme Daily Precipitation (mm)	16	23	8.6	12.2	10.4	24.4	31.4	19.2	19.6	13.4	13.2	16	
Date(yyyy/dd)	1990/01	1987/25	1967/03	1975/01	1965/03	1983/02	1982/30	1983/10	1963/12	1982/03	1966/17	1989/31	
Degree Days:													
Above 18 °C	0	0	N	N	N	N	4.9	2.1	0	N	0	N	N
Above 5 °C	0	0.2	N	N	N	N	301.4	229	73.8	N	0.1	N	N
Below 0 °C	891.1	519.2	N	N	N	N	0	0	3.5	N	436.5	N	N
Below 18 °C	1449.1	1026.8	N	N	N	N	106.5	176.8	338.4	N	973.7	N	N
Days With:													
Maximum Temperature	1	4	N	N	31	N	31	31	30	N	4	N	N
Measurable Rainfall	0	0	*	*	8	11	13	12	10	3	*	0	57
Measurable Snowfall	7	5	3	2	*	0	0	*	*	6	8	7	39
Measurable Precipitation	7	5	3	3	8	11	13	12	10	8	8	7	96

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**Carmacks-Stewart / Minto Spur
Transmission Project**

**Project Proposal Submission
September 2006**

Whitehorse Airport
Yukon Territory
1971-2000

Latitude: 60° 42' N Longitude: 135° 4' W Elevation: 706.20 m
Climate ID: 2101300 WMO ID: 71964 TC ID: YXY

Temperature:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Daily Average (°C)	-17.7	-13.7	-6.6	0.9	6.9	11.8	14.1	12.5	7.1	0.6	-9.4	-14.9	-0.7
Standard Deviation	7.3	5.8	3.2	2.3	1.3	1.1	1	1.5	1.5	1.9	5	5.8	1.6
Daily Maximum (°C)	-13.3	-8.6	-0.8	6.4	13.1	18.5	20.5	18.5	12.2	4.3	-5.8	-10.6	4.5
Daily Minimum (°C)	-22	-18.7	-12.3	-4.6	0.7	5.1	7.7	6.3	2	-3.1	-13	-19.1	-5.9
Extreme Maximum (°C)	9	11.7	11.7	20.6	34.1	34.4	32.8	31.6	26.7	18.9	11.7	9.5	
Date (yyyy/dd)	1977/26	1968/27	1979/22	1958/27+	1983/30	1969/14	1951/09	1999/05	1942/03	1958/01+	1970/02	1986/10	
Extreme Minimum (°C)	-52.2	-51.2	-40.6	-29.4	-11.7	-2.8	-0.5	-4.4	-19.4	-31.1	-40.6	-47.8	
Date (yyyy/dd)	1947/31	1968/02+	1972/08	1986/10	1964/10	1971/03+	1984/19	1948/25	1983/27	1982/28	1948/27	1942/19	
Precipitation:													
Rainfall (mm)	0.2	0.1	0	1.3	13	29.7	41.4	38.5	29.3	8.8	0.7	0.3	163.1
Snowfall (cm)	23.7	16.8	14.9	8	2.4	0.5	0	1	5.1	18.9	27.3	26.4	145
Precipitation (mm)	16.7	11.4	10.4	7	15.2	30.3	41.4	39.4	34.1	23.8	19.2	18.5	267.4
Average Snow Depth (cm)	28	33	31	13	0	0	0	0	0	1	10	20	11
Median Snow Depth (cm)	28	33	31	12	0	0	0	0	0	0	11	19	11
Snow Depth at Month-end (cm)	31	32	25	2	0	0	0	0	0	5	15	24	11
Extreme Daily Rainfall (mm)	3.4	0.8	0.8	4.4	12.6	44.9	23.2	30.7	24.6	18.3	9.4	4.2	
Date (yyyy/dd)	1981/03	1984/04	1944/15	1983/30	2000/26	1985/27	1991/27	1948/01	1983/04	1970/02	1949/03	1981/18	
Extreme Daily Snowfall (cm)	14	16.7	27.2	16.3	12.2	12.7	0	8.6	21.6	15	14.6	27	
Date (yyyy/dd)	1968/03	1982/09	1967/08	1976/15	1942/04	1972/01	1942/01+	1974/22	1956/27	1999/23	1978/23	1980/25	
Extreme Daily Precipitation (mm)	9.5	10.4	10.4	14.2	12.6	44.9	23.2	30.7	25.2	23.6	11.4	18.7	
Date (yyyy/dd)	1994/17	1952/28+	1962/07	1952/04	2000/26	1985/27	1991/27	1948/01	1986/23	1970/02	1955/06	1980/25	
Extreme Snow Depth (cm)	86	94	94	66	38	0	0	3	20	21	52	69	
Date (yyyy/dd)	1972/30+	1972/16+	1972/01+	1967/13+	1972/01	1955/01+	1955/01+	1969/11	1956/28+	1982/31	1978/25	1980/29	
Wind:													
Speed (km/h)	12.9	13.5	12.7	12.7	12.6	11.5	10.4	11.1	13	14.7	14.1	13.9	12.7
Most Frequent Direction	S	S	SE	SE	SE	SE	SE	SE	SE	SE	S	S	SE
Maximum Hourly Speed	72	68	64	60	64	56	63	52	72	63	68	72	
Date (yyyy/dd)	1962/09	1957/15	1953/14+	1966/09	1965/06	1965/16	1959/30	1998/29	1967/17	1961/28	1962/18	1954/17	
Direction of Maximum Hourly Speed	SE	SE	S	N	SE	SE	E	S	S	SE	SE	SE	SE
Maximum Gust Speed	100	106	93	89	85	90	91	84	101	97	106	97	
Date (yyyy/dd)	1965/17	1964/19	1965/10	1965/16+	1965/02	1963/26	1982/07	1960/11+	1967/18	1958/01	1962/18	1960/14	
Direction of Maximum Gust	SE	SE	SW	N	SE	W	SE	SE	S	S	SE	SE	SE
Days with Winds >= 52 km/hr	1.1	0.9	0.3	0.3	0.1	0	0.1	0.1	0.4	0.6	0.9	0.9	5.7
Days with Winds >= 63 km/hr	0.1	0.2	0	0	0	0	0	0	0.1	0	0.1	0.1	0.8

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Environment Canada

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**Carmacks-Stewart / Minto Spur
Transmission Project**

**Project Proposal Submission
September 2006**

Mayo Airport
Yukon Territory
1971-2000

Latitude: 63° 37' N Longitude: 135° 52' W Elevation: 503.80 m
Climate ID: 2100700 WMO ID: 71965 TC ID: YMA

Temperature:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Daily Average (°C)	-25.7	-19	-9.6	0.9	8.4	14	16	13.1	6.4	-2.9	-15.9	-22.3	-3.1
Standard Deviation	8.3	6.6	3.6	2.3	1.5	1	0.9	1.5	1.8	2.6	6	6.9	2.4
Daily Maximum (°C)	-20.5	-12.7	-2.8	6.8	14.8	20.8	22.7	19.6	12.1	1.1	-11.2	-17	2.8
Daily Minimum (°C)	-31	-25.3	-16.4	-5.1	2	7.1	9.3	6.4	0.8	-6.9	-20.5	-27.6	-8.9
Extreme Maximum (°C)	10.1	12.2	12.2	22.8	33.5	36.1	35.6	32.6	26.7	22.6	13.9	11.8	
Date (yyyy/dd)	1981/15	1968/27	1930/26	1976/29	1983/31	1969/14	1951/20	1999/06	1938/02	2003/03	1970/02	1999/23	
Extreme Minimum (°C)	-58.3	-62.2	-48.9	-41.1	-21.7	-3.3	-2.8	-10.6	-15.6	-36.7	-50.6	-57.8	
Date (yyyy/dd)	1947/28+	1947/03	1951/05	1944/01	1964/11	1951/26	1928/23	1993/28	1946/28+	1935/27	1950/26	1946/13	
Precipitation:													
Rainfall (mm)	0.1	0	0.5	2.8	22.3	40.4	54.4	41.6	33	9.8	0.1	0.3	205.3
Snowfall (cm)	23.5	19.4	13.2	8.2	1.2	0.1	0	0.4	3.5	24.9	27	25.6	147
Precipitation (mm)	16.6	13.5	10	9.2	23.5	40.5	54.4	41.8	36.6	29.5	19.2	18.1	312.9
Average Snow Depth (cm)	31	38	36	17	0	0	0	0	0	3	15	24	14
Median Snow Depth (cm)	31	38	36	18	0	0	0	0	0	2	15	24	14
Snow Depth at Month-end (cm)	35	38	31	2	0	0	0	0	1	9	20	27	14
Extreme Daily Rainfall (mm)	1.4	0.3	14.5	20.3	25.4	27.9	29.2	31.8	23.6	12	6.6	5	
Date (yyyy/dd)	1985/02	1938/24	1947/17	1926/13	1939/26	1976/18	1976/14	1932/27	1959/19	1980/03	1947/22	1985/20	
Extreme Daily Snowfall (cm)	35.6	16.8	16	12.2	15	2.8	0	3.6	24.9	25.6	21	15.7	
Date (yyyy/dd)	1949/09	1974/07	1939/18	1964/01	1964/09	1992/07	1925/01+	1984/28	1970/21	1982/25	2003/22	1958/15	
Extreme Daily Precipitation (mm)	35.6	16.5	16	21.6	25.4	27.9	29.2	31.8	23.6	22.4	16.3	15.7	
Date (yyyy/dd)	1949/09	1965/12	1939/18	1928/29	1939/26	1976/18	1976/14	1932/27	1959/19	1958/04	1966/04	1958/15	
Extreme Snow Depth (cm)	81	109	117	94	28	0	0	0	20	41	64	71	
Date (yyyy/dd)	2004/19	1967/24+	1967/04+	1967/01	1964/01	1934/18+	1955/01+	1955/01+	1993/26	1982/26	1956/20+	1958/31	
Wind:													
Speed (km/h)	4.5	6.4	9.1	9.2	8.1	6.1	5	4.9	6.3	8.3	5.9	5.3	6.6
Most Frequent Direction	N	N	N	N	N	N	N	SW	N	N	N	N	N
Maximum Hourly Speed	41	43	40	56	42	64	42	50	43	72	43	50	
Date (yyyy/dd)	2001/03+	1979/02+	1966/09	1965/18	1965/25	1961/12	1961/13	1984/26	1977/22	1962/27	1978/26	1998/26	
Direction of Maximum Hourly Speed	N	N	NE	NE	SW	S	W	N	N	SE	N	N	SE
Maximum Gust Speed	69	74	65	126	70	117	65	74	65	67	67	61	
Date (yyyy/dd)	1981/19	1986/26	1994/04	2002/20	1985/31	1998/14	1985/01+	1998/02	1977/22	1989/07	1999/01	1980/14	
Direction of Maximum Gust	S	S	SE	SW	E	E	W	S	N	S	S	S	SW
Days with Winds >= 52 km/hr	0	0	0	0	0	0	0.1	0	0	0	0	0	0.3
Days with Winds >= 63 km/hr	0	0	0	0	0	0	0	0	0	0	0	0	0

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