



DEPARTMENT OF TRANSPORT

315 Bloor Street West
Toronto 5, Ontario
January 23, 1953

Mr. J. P. Windish,
Occupational Health Division,
Department of National Health and Welfare,
200 Kent St.,
Ottawa, Ontario.

Dear Sir:

As requested in your telephone conversation with Mr. Boughner of this office, we are attaching summaries listing various wind data and precipitation data for Yellowknife, N.W.T., for the years 1949 to 1952, inclusive.

I should advise that hourly wind data are available for Yellowknife for the period November, 1951, to October, 1952, inclusive. For the period January, 1949 to October, 1951, it has been necessary for us to make use of the wind data obtained by four daily observations spaced six hours apart. The attached summaries for this period are based on the four observations daily.

For your additional information, I have listed the monthly rainfall and snowfall totals for the period January 1949 to November, 1952, inclusive. The total precipitation is made up of the rain added to the water equivalent of the snowfall. Ten inches of snow is considered as having a water equivalent of one inch. Finally, at the end of the table, I have listed for the past four years the first date of the continuous snow-cover of 1/2 inch or more. In some instances, light snowcover occurred at earlier dates but did not persist through the winter. I assume that such early snow cover would be of no interest to you.

I trust that the attached summaries will provide you with some helpful information.

Yours very truly,

A. L. Boughner
for Andrew Thomson,
Controller.

Encl.
CCB:eo

Yellowknife, N.W.T.

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Frequency of Winds (Obs. at 01.30, 07.30, 13.30 and 19.30 L.S.T.)

		Calm	N	NE	E	SE	S	SW	W	NW	TOTAL			
1949														
January	✓	4	19	29	29	14	0	0	1	38	124			
February	✓	9	13	11	14	8	0	3	13	41	112			
March	✓	12	15	15	20	24	3	3	8	24	124			
April	✓	5	20	41	27	16	2	1	1	7	120			
May	✓	1	17	13	26	23	6	3	5	30	124			
June	✓	3	24	24	10	27	7	3	3	19	120			
July	✓	2	5	28	22	20	13	6	5	23	124			
August	✓	0	5	11	33	37	6	4	14	14	124			
September	✓	3	6	15	34	34	6	6	5	11	120			
October	✓	3	10	27	20	10	4	1	10	40	125			
November	✓	2	11	21	27	5	1	1	7	15	120			
December	✓	5	21	17	31	5	4	5	8	28	124			
1950														
January	✓	11	15	11	12	9	6	12	17	31	124			
February		1	12	18	37	5	4	3	6	26	112			
March		2	2	21	29	23	3	0	7	37	124			
April		4	14	21	24	38	1	1	5	12	120			
May		2	19	30	36	21	8	2	1	5	124			
June		5	10	16	24	19	19	10	5	12	120			
July		2	14	6	19	29	20	12	8	14	124			
August		1	17	10	19	13	10	16	12	26	124			
September		1	21	9	21	37	11	2	9	9	120			
October		3	8	18	49	10	2	7	11	16	124			
November		1	17	11	17	12	4	3	9	46	120			
December		5	12	27	40	16	0	0	4	20	120			
1951														
January	✓	0	14	21	30	3	1	3	8	44	124			
February	✓	2	11	13	22	20	4	5	8	27	112			
March	✓	2	24	24	34	6	5	0	4	25	124			
April	✓	7	16	19	29	26	4	4	5	10	120			
May		2	28	27	20	23	14	4	3	3	124			
June		4	14	9	11	24	21	4	7	26	120			
July		5	19	11	8	19	7	13	11	31	124			

Frequency of Winds - 4 Observations daily.

Summary of Hourly Winds

Yellowknife, N.W.T.

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		N	NE	E	SE	S	SW	W	NW	Calm	Total	Average Speed (m.p.h.)
<u>November 1951.</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		128	77	200	145	6	3	32	126	3	720	
Mileage		971	493	1762	2127	103	22	190	990		6658	9.2
<u>December 1951</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		535	110	143	82	60	40	69	185	0	744	9.4
Mileage		681	755	1277	794	438	307	578	2250		7620	
<u>January 1952</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		268	98	111	75	69	6	41	73	3	744	
Mileage		1944	564	603	675	586	26	259	463		5123	6.9
<u>February 1952</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		116	183	292	30	19	1	13	28	14	696	
Mileage		787	1219	2152	266	106	2	83	145		4760	6.8
<u>March 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		184	114	238	76	89	5	39	27	22	744	
Mileage		1389	884	2570	633	843	35	269	231		6854	9.2
<u>April 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		75	60	136	154	104	33	92	65	1	720	
Mileage		1000	645	1649	2040	1293	414	1260	1014		9315	12.9
<u>May 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		75	44	88	226	180	45	39	47	0	744	
Mileage		783	424	892	2839	1946	434	456	394		8168	11.0
<u>June 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		105	168	81	103	140	64	20	38	1	720	
Mileage		997	1680	590	989	1465	661	156	371		6909	9.6
<u>July 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		105	151	52	88	80	59	57	152	0	744	
Mileage		1156	1673	438	888	774	508	661	1918		8016	10.8
<u>August 1952</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		114	69	82	93	86	50	79	170	1	744	
Mileage		1328	547	717	728	871	380	688	2032		7291	9.8
<u>September 1952</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hours		137	160	110	126	38	13	54	82	0	720	
Mileage		1229	1477	974	1822	375	145	474	1168		7664	10.6

2. Yellowknife, N.W.T.

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	N	NE	E	SE	S	SW	W	NW	Calcu	Average Speed (m.p.h.)
October 1952	✓	✓	✓	✓	✓	✓	✓	✓		
Hours	81	61	181	97	48	26	94	156	0	144
Mileage	878	678	2023	1442	610	247	1026	2313	9217	12.4

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[illegible]

Rain	0.05
Snow	7.3
Rain	0.32
Snow	12.8