

Environment Canada Imaging Cover Page

Report N.:



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WIND FREQUENCY TABLES FOR VANCOUVER, TORONTO AND MONTREAL

Tables showing the frequency of surface wind direction by speed classes have been prepared by the Climatology Division's Machine Processing Section for the International Airports at Vancouver, Toronto, and Montreal. These tables are based on hourly winds over the period 1956 through 1965 and show for each month the 16 point and total wind direction frequencies by the following speed classes: calm, 1-3, 4-7, 8-12, 13-18, 19-24, 25-31, 32-38, 39-46, 47-54, 55-63, 64-75, ≥ 75 and "all speeds". The tabulations also show mean wind speeds for each direction.

The design of these wind tables has been in accordance with the World Meteorological Organization's publication Guide to Climatological Practices (WMO - No. 100 TP 44). The format is that of Climatological Summary - Model B. as shown on page XII 17, the speed classes corresponding to Beaufort speeds 1 to 12.

November 25, 1966.

Climatology Division,
Meteorological Branch,
Department of Transport,
315 Bloor Street West,
Toronto 5, Ontario.

PERIOD JANUARY 1956-1965

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STATION VANCOUVER INT A

BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													571	
NORTH	69	96	6										111	3.5
NNE	27	32	11	3									73	4.8
NE	84	189	148	60	4								485	7.4
ENE	79	391	474	236	28								1208	9.2
EAST	224	962	736	210	19	2							2153	7.6
ESE	79	286	170	80	21	5							641	8.0
SE	99	151	101	63	33	7	2						456	8.7
SSE	27	40	62	63	29	9							230	12.0
SOUTH	45	43	50	92	21	6							257	11.2
SSW	22	22	25	23	6		1	1					100	9.4
SW	45	54	18	14	3								134	6.0
WSW	31	47	24	8	6	4							120	7.5
WEST	87	102	70	51	36	21	3						370	9.9
WNW	34	77	52	32	15	14	5	1					230	10.3
NW	82	79	59	15	3	1							239	6.2
NNW	27	26	7	1									61	4.4
TOTAL	1061	2537	2013	951	224	69	11	2					7439	7.7

PERIOD FEBRUARY 1956-1965

STATION VANCOUVER INT A

BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													467	
NORTH	67	49	13										129	3.8
NNE	30	39	18	10									97	6.2
NE	88	168	181	64	18								519	8.2
ENE	66	275	388	173	15	1							918	9.2
EAST	194	688	568	144	3								1597	7.5
ESE	60	208	153	66	11	1							499	8.0
SE	65	127	84	47	23	5							351	8.4
SSE	22	53	54	46	22	3							200	10.5
SOUTH	43	64	61	67	20	2							257	9.8
SSW	19	42	34	35	3	2	1						136	9.4
SW	55	90	40	15	1								201	6.0
WSW	41	71	46	28	7	2	2						197	8.3
WEST	75	131	111	74	51	24	15	4	3	1			489	11.9
WNW	35	71	96	87	43	18	22	3					375	13.5
NW	63	122	67	20	6	5	1						284	7.1
NNW	32	32	10	2									76	4.6
TOTAL	955	2230	1924	878	223	63	41	7	3	1			6792	8.0

PERIOD	MARCH		1956-1965											STATION VANCOUVER INT A		BC
	WIND SPEED FREQUENCY (MPH)													TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+				
CALM													462			
NORTH	71	42	7	1									121	3.6		
NNE	33	44	29	18	1								125	6.9		
NE	92	212	160	42	9	1							516	7.3		
ENE	52	257	288	139	23	1							760	9.2		
EAST	166	603	563	183	8	2							1525	7.9		
ESE	72	219	164	86	19	8	1						569	8.6		
SE	60	150	117	71	32	10	3						443	9.7		
SSE	17	70	84	67	26	10	1						275	11.5		
SOUTH	47	94	107	80	18	3							349	9.5		
SSW	25	68	69	53	10	5							230	9.9		
SW	36	100	79	30	9	2							256	8.1		
WSW	21	97	100	33	17	3	1						272	9.2		
WEST	67	154	186	98	58	56	4						623	11.7		
WNNW	23	108	165	111	43	13	4						467	11.5		
NW	63	98	104	69	16	3							353	8.8		
NNW	29	51	13	1									94	4.7		
TOTAL	874	2367	2235	1082	289	117	14						7440	8.4		

PERIOD	APRIL		1956-1965											STATION VANCOUVER INT A		BC
	WIND SPEED FREQUENCY (MPH)													TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+				
CALM													327			
NORTH	63	51	5	1									120	3.7		
NNE	29	52	20	4									105	5.5		
NE	82	224	98	26									430	6.2		
ENE	39	234	206	49	4	2							534	7.8		
EAST	122	553	508	78	13	2							1276	7.5		
ESE	55	221	194	61	13	6							550	8.3		
SE	47	156	169	80	19	1							472	8.9		
SSE	22	92	86	59	15	7	4						285	10.4		
SOUTH	62	115	145	75	23	4							424	9.2		
SSW	16	80	70	49	11	2							228	9.6		
SW	36	166	111	40	4	2							359	7.7		
WSW	28	127	158	49	18	12	4	3					399	10.1		
WEST	60	185	266	123	72	36	6	7					755	11.4		
WNNW	39	98	182	218	54	5	3						599	12.0		
NW	42	87	95	28	3								255	7.6		
NNW	38	32	10	1									81	4.3		
TOTAL	780	2473	2323	941	249	79	17	10					7199	8.4		

PERIOD MAY

1956-1965

STATION VANCOUVER INT A

BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													390	
NORTH	39	39	8										86	4.1
NNE	36	26	19	1									82	4.9
NE	78	256	124	20									478	6.3
ENE	73	265	202	35	1								576	7.0
EAST	137	558	446	73	4								1218	7.2
ESE	47	264	204	38	2								555	7.3
SE	68	137	178	55									438	7.8
SSE	32	114	131	37	10								324	8.4
SOUTH	66	174	142	30	4								416	7.2
SSW	31	109	102	28	4								274	7.8
SW	36	189	130	34	4	1							394	7.5
WSW	27	172	171	39	14	6							429	8.7
WEST	65	248	338	126	21	2							800	9.0
WNW	42	109	234	212	39	7	1						644	11.3
NW	44	95	65	44	13								261	8.3
NNW	24	39	11	1									75	4.8
TOTAL	845	2794	2505	773	116	16	1						7440	7.5

PERIOD JUNE

1956-1965

STATION VANCOUVER INT A

BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													353	
NORTH	34	29	4	2									69	4.1
NNE	24	30	13	4									71	5.5
NE	79	192	79	10	1								361	5.8
ENE	62	295	231	22	2								612	7.0
EAST	134	646	433	57	5								1275	7.0
ESE	78	292	264	63	2								699	7.6
SE	56	224	217	55	3								555	7.7
SSE	43	131	132	29	2								337	7.7
SOUTH	63	179	155	42	2								441	7.4
SSW	33	127	98	19	1								278	7.2
SW	35	175	119	18	1								348	7.0
WSW	28	166	173	42	10	4							423	8.5
WEST	67	192	245	173	43	7							727	10.2
WNW	24	83	138	107	29	3							384	11.0
NW	28	52	67	52	16								215	10.0
NNW	19	19	10	4									52	5.7
TOTAL	807	2832	2378	699	117	14							7200	7.4

PERIOD JULY 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													465	
NORTH	35	25	4										64	3.6
NNE	26	17	6										49	4.2
NE	83	149	74	3									309	5.4
ENE	54	244	166	29	1								494	7.0
EAST	135	599	416	54	2								1206	6.9
ESE	73	318	264	49									704	7.4
SE	84	260	199	54	1								598	7.3
SSE	25	135	116	14									290	7.2
SOUTH	43	138	103	7	3								294	6.6
SSW	24	126	72	9	1								232	6.7
SW	60	201	117	6	1								385	6.2
WSW	25	183	171	32	9	3							423	8.1
WEST	59	220	325	285	70	8							967	11.0
WNW	25	106	185	218	41	2							577	11.6
NW	42	74	104	103	11								334	9.8
NNW	15	19	13	2									49	5.7
TOTAL	808	2814	2335	865	140	13							7440	7.5

PERIOD AUGUST 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													582	
NORTH	28	25	1										54	3.5
NNE	22	16	8										46	4.4
NE	80	176	111	11									378	6.2
ENE	68	258	179	24	1								530	6.7
EAST	185	738	460	35	1								1419	6.5
ESE	69	381	334	41	1								826	7.3
SE	95	255	253	48									651	7.3
SSE	29	97	96	18	3								243	7.5
SOUTH	50	134	100	17	5								306	7.1
SSW	31	73	38	3	1								146	5.8
SW	41	186	90	10	2								329	6.5
WSW	27	170	179	17									393	7.4
WEST	74	254	257	97	15	1							698	8.3
WNW	24	108	190	145	11								478	10.4
NW	49	87	104	47	4								291	8.3
NNW	24	33	9	4									70	5.1
TOTAL	896	2991	2409	517	44	1							7440	6.7

PERIOD SEPTEMBER 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													770	
NORTH	82	55	3	1									141	3.4
NNE	36	28	14										78	4.6
NE	84	132	68	12	2								298	5.8
ENE	68	234	205	41	2								550	7.2
EAST	201	589	342	47	5								1184	6.4
ESE	94	296	205	33	1								629	6.8
SE	80	164	130	25	5								404	7.0
SSE	46	67	54	22	7	1							197	7.5
SOUTH	58	80	43	18	1								200	6.3
SSW	23	44	16	2	1								86	5.5
SW	46	127	55	11	3								242	6.3
WSW	26	131	103	51	12	7							330	9.1
WEST	94	259	257	132	44	37	12						835	10.2
WNW	43	171	252	162	44	13	4						689	10.6
NW	75	135	154	83	8	1							456	8.4
NNW	56	43	10	1	1								111	4.3
TOTAL	1112	2555	1911	641	136	59	16						7200	6.8

PERIOD OCTOBER 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													746	
NORTH	64	39	2										105	3.3
NNE	25	36	17	3									81	5.5
NE	85	158	98	18									359	6.1
ENE	96	268	258	65	5								692	7.6
EAST	214	642	558	104	13								1531	7.3
ESE	87	264	237	58	6	5							657	7.7
SE	86	149	140	71	19	10	4	2					481	9.0
SSE	34	69	85	68	29	9	1		1				296	11.0
SOUTH	42	59	71	59	15	1							247	9.6
SSW	23	38	53	33	8								155	9.3
SW	39	82	46	11	5								183	6.7
WSW	31	102	56	41	6	11	1						248	9.0
WEST	109	221	150	75	50	34	4						643	9.6
WNW	64	152	165	110	27	12							530	9.7
NW	88	147	120	23	3	1							382	6.7
NNW	42	51	9	2									104	4.4
TOTAL	1129	2477	2065	741	186	83	10	2	1				7440	7.2

PERIOD NOVEMBER 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													546	
NORTH	92	58	6	1									157	3.5
NNE	52	38	22	4									116	4.8
NE	107	223	111	32	1								474	6.3
ENE	101	288	320	115	6	1							831	8.1
EAST	204	636	655	179	37								1711	8.0
ESE	101	292	173	51	9	5							631	7.3
SE	59	150	123	85	17	7	4						445	9.3
SSE	34	41	72	71	27	10							255	11.5
SOUTH	37	53	89	66	27	6							278	10.9
SSW	17	26	23	22	3	2							93	9.1
SW	52	55	35	25	10								177	7.6
WSW	39	63	34	23	5	1							165	7.6
WEST	80	150	101	67	45	20	17	2	1	1			484	10.9
WNW	51	108	107	79	35	16	20	4	1				421	12.0
NW	87	111	73	31	8	2							312	7.0
NNW	32	54	14	4									104	5.1
TOTAL	1145	2346	1958	855	230	70	41	6	2	1			7200	7.7

PERIOD DECEMBER 1956-1965

STATION VANCOUVER INT A BC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													572	
NORTH	55	45	4	1									105	3.5
NNE	43	39	12	1									95	4.4
NE	112	181	131	18	3								445	6.2
ENE	96	345	404	127	12	1							985	8.3
EAST	229	821	795	299	27	5							2176	8.2
ESE	98	349	227	88	19	5							786	7.9
SE	85	154	75	73	42	6	2						437	9.1
SSE	27	51	50	88	36	8							260	12.2
SOUTH	38	64	48	53	13								216	9.1
SSW	27	27	38	43	9	2							146	10.2
SW	28	42	47	28	10			1					156	9.3
WSW	21	53	30	28	16	8							156	10.2
WEST	67	101	74	66	33	15	7	1					364	10.6
WNW	39	70	65	51	26	14	2	2					269	11.0
NW	52	55	55	16	2	2	4	1					187	7.6
NNW	35	38	12										85	4.5
TOTAL	1052	2435	2067	980	248	66	15	5					7440	7.8

PERIOD JANUARY 1956-1965

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STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL 242	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM														
NORTH	61	232	344	297	81	15	3						1033	11.3
NNE	29	100	117	81	9								336	9.5
NE	32	96	144	68	1								341	9.1
ENE	5	43	66	79	11								204	11.4
EAST	16	29	49	53	16	8							171	11.8
ESE	4	16	56	47	5	1							129	11.4
SE	16	38	43	19									116	8.2
SSE	10	34	41	9	2								96	8.2
SOUTH	39	106	111	50	1								307	8.2
SSW	16	128	184	145	29	2							504	10.8
SW	37	181	285	279	120	48	10	7					967	13.2
WSW	19	92	228	302	168	85	26	4	1				925	15.8
WEST	28	148	196	202	111	42	6						733	13.2
WNW	13	72	139	111	56	40	5						436	13.8
NW	18	84	104	124	63	20	1						414	13.1
NNW	17	77	129	142	83	35	2						485	13.9
TOTAL	360	1476	2236	2008	756	296	53	11	1				7439	11.9

PERIOD FEBRUARY 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													243	
NORTH	60	246	311	240	64	6	1						928	10.6
NNE	23	95	93	60	10	1							282	9.4
NE	19	81	92	52	6								250	9.1
ENE	7	27	64	77	18	1							194	12.3
EAST	27	40	63	93	36	12							271	12.7
ESE	5	24	54	44	8	3							138	11.9
SE	16	52	44	15	2								129	7.8
SSE	13	65	48	12	7								145	8.1
SOUTH	46	122	141	37	6								352	8.0
SSW	18	81	103	65	32	2							301	10.6
SW	32	148	162	163	29	9	3	1					547	11.0
WSW	21	82	137	190	78	41	8	2					559	14.2
WEST	42	146	210	248	129	54	9	2					840	13.7
WNW	20	80	123	147	82	21	9	1					483	13.8
NW	35	101	149	135	66	66	19						571	14.2
NNW	9	98	166	154	96	23	10	2	1				559	13.9
TOTAL	393	1488	1960	1732	669	239	59	8	1				6792	11.5

PERIOD MARCH

1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													256	
NORTH	65	290	517	239	55	11							1177	10.1
NNE	25	107	155	83	11	1							382	9.7
NE	40	163	139	73	17	1							433	9.0
ENE	11	75	129	125	18	1							359	11.4
EAST	22	82	114	161	67	20	9	1					476	13.5
ESE	6	37	71	67	31	3	2						217	12.8
SE	23	80	66	23									192	7.6
SSE	12	62	70	27	1								172	8.6
SOUTH	37	116	88	21	3	1							266	7.3
SSW	13	80	72	45	22	13	4						249	11.3
SW	30	100	102	101	54	30	10	2	5	3			437	13.9
WSW	14	82	79	102	40	22	17	3	1	2			362	14.3
WEST	47	138	172	206	97	44	11	2	2				719	13.3
WNW	25	101	113	129	85	26	1						480	13.2
NW	40	135	169	141	36	14	4						539	11.1
NNW	17	140	220	248	85	14							724	12.4
TOTAL	427	1788	2276	1791	622	201	58	8	8	5			7440	11.1

PERIOD APRIL

1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													304	
NORTH	75	296	310	163	16								860	8.9
NNE	26	95	98	34	1								254	8.1
NE	26	60	59	23	3	4							175	8.3
ENE	17	82	99	63	30	7							298	10.9
EAST	34	86	184	182	29	4							519	11.5
ESE	13	72	99	77	15	1							277	10.6
SE	33	131	175	65	1								405	8.6
SSE	15	76	130	58	8	1							288	9.6
SOUTH	37	120	101	36	4	3							301	8.0
SSW	17	64	64	35	11	9	1						201	10.4
SW	41	99	106	94	45	29	9	1					424	12.4
WSW	27	56	86	94	56	35	9	2					365	14.3
WEST	56	144	180	161	100	48	7	2					698	12.9
WNW	18	95	127	210	112	67	11	2	1				643	15.3
NW	29	113	183	165	62	10							562	11.8
NNW	20	128	202	205	61	10							626	11.9
TOTAL	484	1717	2203	1665	554	228	37	7	1				7200	10.8

PERIOD MAY 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													373	
NORTH	74	265	289	214	37	3							882	9.7
NNE	34	86	62	41	3								226	8.2
NE	41	105	47	22	2								217	6.9
ENE	17	75	58	46	15	2							213	9.4
EAST	35	104	134	67	2								342	8.8
ESE	10	56	103	61	3								233	10.0
SE	41	150	180	51									422	8.1
SSE	27	170	202	71									470	8.7
SOUTH	47	195	209	48	11								510	8.2
SSW	21	92	104	57	22								296	9.9
SW	40	138	159	147	47	21	5	1					558	11.5
WSW	19	88	132	112	74	10	8	2					445	13.0
WEST	53	163	158	176	52	25	4	2					633	11.5
WNW	32	100	134	156	86	15	4						527	12.9
NW	37	145	131	125	52	5							495	11.0
NNW	31	135	181	190	53	8							598	11.5
TOTAL	559	2067	2283	1584	459	89	21	5					7440	9.7

PERIOD JUNE 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													421	
NORTH	89	344	306	129	20	8							896	8.5
NNE	31	101	60	46	1								239	8.0
NE	36	79	38	8									161	6.1
ENE	7	39	43	13									102	8.2
EAST	23	56	54	23	2								158	8.2
ESE	10	33	42	15	3								103	8.9
SE	32	157	176	25	1								391	7.7
SSE	23	151	227	64	2								467	8.7
SOUTH	60	259	182	54	3								558	7.4
SSW	24	134	86	46	10	3							303	8.6
SW	46	185	168	117	23	10							549	9.7
WSW	15	131	129	125	32	26	6						464	11.9
WEST	60	220	211	175	65	16	4						751	10.8
WNW	26	131	153	123	40	11	6						490	11.4
NW	56	195	145	121	38	7							562	9.7
NNW	28	202	193	129	25	8							585	9.8
TOTAL	566	2417	2213	1213	265	89	16						7200	8.8

PERIOD JULY 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													532	
NORTH	163	372	268	91	11								905	7.2
NNE	38	92	54	17	1								202	6.7
NE	31	79	42	14									166	6.6
ENE	14	37	45	24	1								121	8.9
EAST	29	61	52	25	2	2	1						172	8.2
ESE	15	63	60	20		2	2						162	8.4
SE	25	134	182	45	1								387	8.4
SSE	21	103	203	51	2								380	8.9
SOUTH	72	206	201	43	4								526	7.6
SSW	31	88	121	56	7								303	9.1
SW	46	172	182	94	21	4							519	9.3
WSW	41	116	132	86	18	2							395	9.5
WEST	95	238	198	160	66	22	2						781	10.2
WNW	45	157	189	155	55	9	1						611	10.9
NW	71	231	161	122	37	5							627	9.2
NNW	53	232	242	108	14	2							651	8.8
TOTAL	790	2381	2332	1111	240	48	6						7440	8.2

PERIOD AUGUST 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													483	
NORTH	106	372	318	96	9	1							902	7.7
NNE	25	74	60	24	1								184	7.7
NE	35	76	54	14									179	6.8
ENE	16	36	39	6									97	7.4
EAST	24	70	76	34	4								208	8.4
ESE	5	55	66	22									148	8.7
SE	28	133	157	51	1								370	8.4
SSE	26	132	218	69	2								447	8.9
SOUTH	64	211	161	59	1								496	7.6
SSW	32	121	99	52	4								308	8.3
SW	50	192	205	155	28	2							632	9.8
WSW	30	137	157	115	27	6							472	10.3
WEST	79	278	257	135	39	4	1						793	9.1
WNW	35	130	143	119	32	10		1					470	10.7
NW	86	243	192	98	19	7							645	8.6
NNW	43	253	173	119	15	3							606	8.8
TOTAL	684	2513	2375	1168	182	33	1	1					7440	8.2

PERIOD SEPTEMBER 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+			
CALM														434	
NORTH	106	380	242	91	12									831	7.5
NNE	30	101	99	55	3									288	8.7
NE	36	100	62	10										208	6.4
ENE	10	67	54	6										137	7.2
EAST	36	88	112	37	1									274	8.1
ESE	10	57	104	8										179	8.2
SE	30	162	165	19										376	7.6
SSE	19	130	185	43	1									378	8.4
SOUTH	61	220	215	83	10		1							590	8.3
SSW	23	105	150	78	30	6								392	10.5
SW	39	182	208	142	71	15		1						658	11.0
WSW	30	114	133	90	32	8								407	10.6
WEST	63	202	171	133	65	24	1							659	10.6
WNW	29	93	113	103	31	6	1							370	11.1
NW	56	154	102	81	34	2								429	9.1
NNW	51	227	171	117	21	2								589	9.0
TOTAL	623	2382	2286	1096	311	63	3	1						7199	8.6

PERIOD OCTOBER 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+			
CALM														420	
NORTH	95	358	277	147	26	3								906	8.5
NNE	19	78	85	40	9									231	9.1
NE	41	135	92	19	1									288	6.9
ENE	15	63	81	19										178	8.2
EAST	36	84	114	41	2									277	8.5
ESE	12	50	82	53	3	1								201	9.9
SE	30	134	156	31										351	8.1
SSE	24	122	114	28	5									293	8.0
SOUTH	52	176	145	42	8									423	7.8
SSW	22	96	125	58	22	6								329	10.2
SW	39	191	205	154	56	19								664	10.9
WSW	35	113	193	120	35	11	1							508	10.9
WEST	72	258	221	146	61	44	13							815	10.9
WNW	30	90	140	108	39	16	2							425	11.6
NW	59	148	161	110	25	12								515	9.8
NNW	46	173	177	163	53	4								616	10.7
TOTAL	627	2269	2368	1279	345	116	16							7440	9.1

PERIOD NOVEMBER 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													322	
NORTH	60	238	147	77	7								529	7.8
NNE	22	78	51	19	3								173	7.6
NE	24	109	81	15									229	7.1
ENE	15	63	76	14									168	7.9
EAST	17	75	91	54	11	6							254	10.2
ESE	11	45	95	58	13								222	10.7
SE	35	120	90	45	2								292	8.1
SSE	22	98	66	42	2								230	8.3
SOUTH	34	145	134	63	28	10							414	9.7
SSW	19	92	146	91	52	14	1						415	11.9
SW	20	145	233	201	119	57	16	5					796	14.0
WSW	17	99	218	234	139	59	26	5					797	15.3
WEST	52	154	273	238	133	60	22						932	13.6
WNW	20	78	144	161	115	33	5						556	14.1
NW	25	108	123	111	47	31	1						446	12.3
NNW	24	108	136	100	37	15	5						425	11.4
TOTAL	417	1755	2104	1523	708	285	76	10					7200	11.2

PERIOD DECEMBER 1956-1965

STATION TORONTO INT A ONTARIO

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													299	
NORTH	54	222	276	160	54	6							772	10.1
NNE	14	101	100	54	4								273	8.9
NE	23	116	109	43	10								301	8.6
ENE	9	64	86	39	3								201	9.4
EAST	15	46	65	27	4	2							159	9.2
ESE	6	42	59	44	14	4							169	11.5
SE	26	83	95	36	4								244	8.3
SSE	17	71	47	14	2								151	7.4
SOUTH	36	201	203	69	10	1							520	8.6
SSW	24	118	194	96	31	5							468	10.4
SW	37	161	354	277	119	45	5						998	12.7
WSW	27	131	244	255	130	52	11						850	13.8
WEST	45	143	218	231	119	58	8	1					823	13.4
WNW	25	60	79	154	60	24	2						404	13.8
NW	31	106	82	75	33	8	1						334	10.5
NNW	31	122	140	118	47	14							472	11.3
TOTAL	420	1787	2351	1692	644	219	27	1					7440	10.8

PERIOD JANUARY 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													210	
NORTH	71	178	147	35	7	8							446	7.6
NNE	35	116	271	262	104	53	4						845	13.2
NE	34	69	159	130	89	43	7						531	13.9
ENE	21	36	41	15	5	11							129	9.9
EAST	22	36	30	8	3								99	7.2
ESE	22	39	41	16	5								123	8.2
SE	12	55	57	57	25	1							207	11.1
SSE	18	71	101	58	9	3							260	10.0
SOUTH	41	91	74	24	3								233	7.3
SSW	36	127	149	72	28	1							413	9.7
SW	56	224	305	325	156	55	10	1		1			1133	12.9
WSW	48	187	338	404	235	120	12						1344	14.5
WEST	67	135	226	231	115	47	4	1					826	12.8
WNW	30	69	93	72	36	8							308	11.2
NW	32	63	36	16	10								157	7.6
NNW	30	89	35	17	3	2							176	7.1
TOTAL	575	1585	2103	1742	833	352	37	2		1			7440	11.6

PERIOD FEBRUARY 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													179	
NORTH	65	131	121	72	21	3							413	8.7
NNE	29	132	324	281	98	39	15	13	3				934	13.7
NE	33	65	126	155	52	13	4						448	12.7
ENE	18	33	66	45	25	8							195	11.7
EAST	14	48	50	17	2	1							132	8.5
ESE	15	22	19	9	4	1							70	8.4
SE	13	62	53	27	17	4	1						177	10.2
SSE	16	62	57	39	16	3							193	10.1
SOUTH	19	70	38	6	1								134	6.5
SSW	47	138	115	48	16	7							371	8.7
SW	51	179	284	244	120	49	7	3					937	12.8
WSW	34	113	261	358	290	101	15	2	1				1175	15.7
WEST	45	94	214	260	142	34	11	1					801	14.0
WNW	26	51	88	80	30	4	1						280	11.5
NW	44	65	50	21	5								185	7.1
NNW	36	58	49	22	3								168	7.6
TOTAL	505	1323	1915	1684	842	267	54	19	4				6792	12.0

PERIOD MARCH

1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+			
CALM														193	
NORTH	98	195	179	60	8	2								542	7.6
NNE	44	182	341	338	90	59	7							1061	12.7
NE	57	106	156	168	101	41	13							642	13.3
ENE	19	38	56	49	17	17	4							200	12.6
EAST	31	74	94	30	6	1								236	8.3
ESE	9	50	33	23	5									120	8.7
SE	22	63	38	24	6									153	8.1
SSE	24	37	31	33	11	1								137	9.9
SOUTH	56	75	22	15	1	2	4							175	6.5
SSW	44	132	118	60	10	10	2	1						377	9.2
SW	45	206	280	237	90	33	5	1						897	11.9
WSW	40	141	224	323	159	64	21	2						974	14.5
WEST	62	153	235	228	102	50	6	1						837	12.6
WNW	35	97	160	92	61	7								452	11.3
NW	37	91	85	38	8									259	8.3
NNW	33	70	52	28	2									185	7.5
TOTAL	656	1710	2104	1746	677	287	62	5						7440	11.1

PERIOD APRIL

1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+			
CALM														110	
NORTH	66	150	163	60	10									449	8.0
NNE	33	138	239	183	74	13	5							685	11.9
NE	34	105	166	154	58	13	3	1						534	12.0
ENE	17	40	75	45	18	3								198	10.9
EAST	32	72	87	38	6									235	8.5
ESE	17	51	94	57	14	1								234	10.6
SE	19	78	99	95	20	3	2							316	11.1
SSE	23	75	63	79	22	5								267	10.7
SOUTH	30	124	62	7										223	6.4
SSW	45	208	255	100	19	5								632	9.1
SW	40	182	309	288	79	18	5							921	11.8
WSW	26	102	219	253	126	82	12							820	14.7
WEST	44	104	214	189	71	23	2							647	12.3
WNW	25	103	126	72	39	12								377	10.9
NW	34	98	118	44	12	1	1							308	9.0
NNW	37	82	71	47	7									244	8.7
TOTAL	522	1712	2360	1711	575	179	30	1						7200	10.9

PERIOD MAY

1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													171	
NORTH	69	130	139	46	17	2							403	8.1
NNE	47	136	214	80	29								506	9.5
NE	21	60	117	81	10	2							291	10.3
ENE	21	48	65	24									158	8.2
EAST	36	94	84	18	1								233	7.2
ESE	27	75	108	38	8	2							258	8.8
SE	38	117	161	78	20	4							418	9.6
SSE	40	127	133	68	6	4							378	8.8
SOUTH	62	180	100	16									358	6.4
SSW	53	252	334	164	38	11							852	9.8
SW	47	216	363	373	117	27	3	1					1147	12.2
WSW	28	138	231	294	114	35	6	6					852	13.6
WEST	38	86	174	159	73	14	1						545	12.3
WNW	21	79	112	101	35	5							353	11.4
NW	38	72	100	53	20	1							284	9.6
NNW	30	64	79	44	13	1							231	9.3
TOTAL	616	1874	2514	1637	501	108	10	7					7438	10.1

PERIOD JUNE

1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													189	
NORTH	88	146	86	34	2								356	6.6
NNE	48	134	201	112	18								513	9.6
NE	32	80	90	36	1								239	8.2
ENE	15	48	31	14									108	7.5
EAST	29	52	29	2									112	5.9
ESE	24	47	38	16									125	7.3
SE	31	70	71	36	3								211	8.3
SSE	32	110	83	53	5								283	8.4
SOUTH	57	166	103	24									350	6.7
SSW	45	272	409	215	23	3	6						973	9.9
SW	51	258	518	401	82	19	3	1					1333	11.4
WSW	30	150	332	317	105	22	2						958	12.5
WEST	48	140	184	187	61	20	4						644	11.8
WNW	21	85	101	111	32	7	1						358	11.5
NW	45	92	66	33	9	2							247	8.0
NNW	38	87	59	15	2								201	6.8
TOTAL	634	1937	2401	1606	343	73	16	1					7200	9.7

PERIOD JULY 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													253	
NORTH	89	161	65	8	1								324	5.4
NNE	50	114	141	50		1							356	7.9
NE	39	60	64	24									187	7.4
ENE	17	34	32	8									91	6.9
EAST	31	73	45	2									151	6.1
ESE	29	61	77	8									175	7.1
SE	58	100	102	41	3								304	7.7
SSE	27	129	113	51	4								324	8.3
SOUTH	55	185	116	19									375	6.6
SSW	75	291	384	190	9	6							955	9.2
SW	73	349	504	297	43	7							1273	9.9
WSW	41	211	367	301	63	9	1						993	11.3
WEST	73	189	233	224	46	3	1						769	10.4
WNW	46	113	145	99	20	1							424	9.6
NW	64	122	68	33	6								293	6.8
NNW	50	88	40	14		1							193	6.1
TOTAL	817	2280	2496	1369	195	28	2						7440	8.6

PERIOD AUGUST 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													300	
NORTH	68	158	106	32	1								365	6.8
NNE	71	138	153	69	4								435	8.2
NE	49	81	80	27		1							238	7.3
ENE	24	46	31	3									104	6.0
EAST	47	72	42	9									170	5.9
ESE	38	100	71	13									222	6.7
SE	62	129	92	39	3								326	7.4
SSE	54	160	112	62	19	2							409	8.5
SOUTH	57	170	103	17	1								348	6.6
SSW	43	226	309	88	14								680	8.8
SW	87	308	473	302	41	8							1219	10.0
WSW	56	244	301	250	56	5							912	10.5
WEST	79	240	234	175	41	2							771	9.5
WNW	46	114	118	85	21								384	9.3
NW	66	128	76	25	7	1							303	7.0
NNW	60	117	55	20	1		1						254	6.4
TOTAL	907	2431	2356	1216	209	19	1	1					7440	8.3

PERIOD SEPTEMBER 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													289	
NORTH	101	207	118	24	3								453	6.2
NNE	84	233	254	58	24	6	2						661	8.3
NE	64	87	109	64	11	4	3						342	9.0
ENE	29	58	28	16	2								133	6.8
EAST	52	92	37	4									185	5.5
ESE	31	68	54	15									168	7.0
SE	47	127	110	50	2								336	7.8
SSE	47	168	151	89	13	5							473	9.0
SOUTH	51	133	95	19	1								299	6.8
SSW	41	187	225	98	18	6							575	9.4
SW	57	234	334	303	94	10	1						1033	11.3
WSW	43	195	285	238	98	16							875	11.6
WEST	48	159	203	133	40	3							586	10.1
WNW	40	105	121	49	15								330	8.8
NW	53	99	67	22									241	6.7
NNW	55	104	46	13	3								221	6.2
TOTAL	843	2256	2237	1195	324	50	6						7200	8.7

PERIOD OCTOBER 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)											TOTAL	MEAN SPEED	
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75			75+
CALM													219	
NORTH	79	128	131	51	9								398	7.8
NNE	50	161	248	154	29	3							645	10.0
NE	40	101	124	116	66	4							451	11.5
ENE	24	48	36	9	10	1							128	8.0
EAST	30	68	53	17	2								170	7.3
ESE	33	76	71	33	3								216	8.1
SE	45	108	105	71	5	4							338	8.9
SSE	36	145	116	71	14	2							384	8.9
SOUTH	86	192	95	15	1								389	6.1
SSW	41	166	163	65	15	5							455	8.7
SW	71	249	340	199	67	28	2						956	10.6
WSW	38	169	290	272	68	25	6						868	12.0
WEST	56	205	276	201	55	10							803	10.5
WNW	21	109	173	132	47	4	1						487	11.4
NW	45	95	122	64	17	7							350	9.7
NNW	34	61	53	25	10								183	8.2
TOTAL	729	2081	2396	1495	418	93	9						7440	9.5

PERIOD NOVEMBER 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													176	
NORTH	71	127	131	28	6	1							364	7.4
NNE	51	160	287	179	46	11	3						737	10.8
NE	54	114	198	160	88	20	2						636	12.0
ENE	33	45	53	23	2	1							157	8.0
EAST	41	76	70	23	1								211	7.5
ESE	40	63	42	41	10								196	8.5
SE	37	91	113	72	15	4	1						333	9.9
SSE	29	75	116	100	49	18							387	12.0
SOUTH	40	91	64	18	12								225	7.8
SSW	28	73	62	59	18	3							243	10.3
SW	44	205	276	281	120	70	13	1					1010	13.2
WSW	34	127	261	310	158	80	11						981	14.5
WEST	52	142	229	234	115	43	11	1					827	13.1
WNW	22	55	91	127	54	11	2						362	13.1
NW	26	104	62	28	7								227	7.9
NNW	20	54	36	17	1								128	7.4
TOTAL	622	1602	2091	1700	702	262	43	2					7200	11.2

PERIOD DECEMBER 1956-1965

STATION MONTREAL INT A QUEBEC

	WIND SPEED FREQUENCY (MPH)												TOTAL	MEAN SPEED
	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47-54	55-63	64-75	75+		
CALM													223	
NORTH	101	165	139	36	8								449	6.9
NNE	54	268	312	218	70	24							946	10.8
NE	56	127	174	154	70	39	9						629	12.5
ENE	19	39	53	25	9								145	9.2
EAST	33	70	27	12	1								143	6.3
ESE	32	49	30	14	2								127	6.9
SE	43	79	61	41	28	5							257	9.5
SSE	26	100	92	91	23	4							336	10.3
SOUTH	39	104	70	20	1								234	7.1
SSW	39	86	97	58	17	2							299	9.5
SW	64	207	242	253	109	36	3						914	12.0
WSW	35	162	281	342	167	61	6						1054	13.7
WEST	79	170	307	281	98	25	3						963	11.8
WNW	38	73	93	108	38	8							358	11.4
NW	47	64	59	27	7	3							207	8.1
NNW	29	67	38	18	4								156	7.4
TOTAL	734	1830	2075	1698	652	207	21						7440	10.5