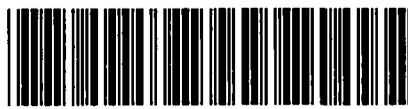


Environment Canada Imaging Cover Page

Report N.:



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SKP Box Number: 672572447

WIND SPEED AND DIRECTIONS AT SELECTED DEW LINE STATIONS

Although hourly weather observations were taken at numerous DEW Line construction sites during the years 1955, 1956, and 1957, only a dozen stations are presently (in 1959) taking and recording hourly or synoptic weather observations on a regular basis. Data in this summary are based on four observations a day for each day of the month over the period of record. These observations are taken at the regular synoptic times of 00, 06, 12, and 18Z.

At most sites the period of record dates from September 1955 and includes observations recorded during the spring of 1959. On the eastern end of the line, observations were not recorded until late in 1955 and furthermore, the data have been split where there was doubt that the observations were homogenous at the construction and permanent sites. Data from the temporary and permanent locations on the western DEW line were combined since our available information on the geography of the area indicates that this would be practical. This was not the case along the more rugged topography of the eastern end.

Besides identification by name and site number, the period of record is given at the right hand side of the accompanying sheet. Wind frequencies from each of the cardinal directions have been counted, and the annual percentage frequency shown in the main body of the table. In addition the annual percentage frequencies of the time the wind speed fell into four different speed groups are also shown.

This brief summary was prepared from monthly percentage frequencies of wind directions and speeds, which in turn were prepared from routine tabulations of wind direction and speed groups. Monthly values from any of the stations listed in this summary are available.

The original data sheets sent in from the DEW Line sites and the resulting punched cards and tabulations, have been quality controlled in the routine manner in the Climatology Division. However, because of the extraordinary conditions under which these observations were taken, the degree of confidence placed in these data should not be as great as for corresponding data from more southerly located stations.

MKT:dmp
October 28, 1959.

Meteorological Branch,
Department of Transport,
Toronto, Ontario.

ANNUAL PERCENTAGE FREQUENCY OF WIND DIRECTIONS AND SPEEDS
AT DEW LINE STATIONS

NAME	Site	D I R E C T I O N								S P E E D (M P H)				PERIOD
		N	NE	E	SE	S	SW	W	NW	CALM	1-12	13-28	≥39	
Tuktuk	4	7	14	20	11	6	8	15	11	8	58	34	*	8/55-5/59
Cape Parry	8	5	13	20	7	6	10	18	12	9	41	49	1	8/55-6/59
Clinton Point	10	5	3	11	14	5	6	18	21	17	44	35	4	8/55-5/59
Unnamed Point	16	21	12	16	6	5	4	10	21	5	49	45	1	8/55-5/59
Cambridge Bay	18	13	14	11	10	5	7	17	21	2	56	42	*	8/55-5/59
King William	22	13	9	10	12	6	8	16	21	5	53	42	*	8/55-6/59
West Simpson	26	12	4	3	5	7	15	23	12	19	40	40	1	8/55-5/59
West Melville	28	5	8	10	6	11	16	7	6	31	47	22	*	10/55-5/59
Hall Lake	30	11	8	8	7	6	5	19	31	5	45	50	*	8/55-6/59
Foley	33	9	11	15	8	5	2	12	16	22	45	32	1	12/55-7/57
		6	14	25	8	4	2	10	11	20	60	20	*	10/57-5/59
Mid Baffin	35	13	11	15	5	6	7	3	3	37	37	21	5	6/56-7/57
		10	15	22	7	7	5	6	3	25	53	20	2	2/53-6/59
Cape Hooper	37	12	3	4	6	2	5	14	9	45	36	18	1	3/56-5/57
		7	7	8	8	6	8	12	10	34	48	16	2	6/57-4/59
Cape Dyer	41	33	8	1	6	23	2	1	13	13	50	34	13	12/55-4/57