

INVENTORY OF UNPUBLISHED CLIMATOLOGICAL TABULATIONS

SECTION 6

SURFACE WIND SUMMARIES FOR SPECIFIED CEILING AND VISIBILITY CONDITIONS

APRIL 1, 1954

Wind tables are available for 70 stations, all in the United States, that show the frequencies and percentages of occurrence of winds to 16 points for combined velocity groups under the following conditions:

- a. With ceiling 0 to 400 feet and/or visibility 0 to 1 mile
- b. With ceiling 0 to 500 feet and/or visibility 0 to 1 1/2 miles
- c. Without regard for ceiling or visibility conditions

With the exception of 3 stations, which are indicated in the following list of stations for which these tabulations were prepared, they show the values only for the full period of record tabulated for each station, i.e., they are not summarized by months or seasons.

Examples of these summaries are shown in Figures I through III.

Requests for copies of the tabulations included herein should be directed to the "Chief U. S. Weather Bureau, Washington 25, D. C." Copies of already prepared tabulations will be furnished at cost for their preparation by photostatic, microfilm, or other methods of reproduction.

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**FIGURE I SURFACE WIND SUMMARY WHEN CEILING 0 THROUGH
400 FEET AND/OR VISIBILITY 0 TO 1 MILE**

U.S. WEATHER BUREAU

SURFACE WIND SUMMARY

DULUTH, MINN. With ceilings zero thru 400 feet and/or visibilities zero thru 1 mile
ANNUAL JAN. 1939 thru DEC. 1943

STA. NO.	DIR.	VEL. DIR.	STATION												PERIOD OF RECORD					
			0-3 M.P.H.		4-15		16-31		32-47		OVER 47		TOTAL ALL		TOTAL		TOT. 4 M.P.H. & OVER			
			OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	VEL.	AV. VEL.	OBS.	%		
745	32	N	7	1.1	4	0.6	5	0.8							16	2.5	190	11.9	9	1.4
	02	NNE	1	0.2	3	0.5	6	0.9							10	1.6	165	16.5	9	1.4
	04	NE	14	2.2	113	17.6	53	8.3	9	1.4					189	29.5	2601	13.8	175	27.3
	06	ENE			42	6.5	33	5.1	7	1.1	1	0.2			83	12.9	1460	17.6	83	12.9
	08	E	3	0.5	54	8.4	23	3.6							80	12.5	958	12.0	77	12.0
	10	ESE	1	0.2	40	6.2	19	3.0							60	9.4	796	13.3	59	9.2
	12	SE	1	0.1	25	3.9	2	0.3	1	0.2	2	0.3			31	4.8	384	12.4	30	4.7
	14	SSE			14	2.2									14	2.2	81	5.8	14	2.2
	16	S	5	0.8	13	2.0									18	2.8	94	5.2	13	2.0
	18	SSW			13	2.0	5	0.8							18	2.8	206	11.4	18	2.8
	20	SW	7	1.1	23	3.6	1	0.1							31	4.8	208	6.7	24	3.7
	22	WSW			13	2.0	2	0.3							15	2.3	158	10.5	15	2.3
	24	W	2	0.3	10	1.5	3	0.5							15	2.3	149	9.9	13	2.0
	26	WNW			8	1.2	3	0.5	2	0.3					13	2.0	208	16.0	13	2.0
	28	NW	1	0.2	9	1.4	7	1.1	3	0.5	1	0.1			21	3.3	398	19.0	20	3.1
	30	NNW	2	0.3	13	2.0	7	1.1							22	3.4	267	12.1	20	3.1
	00	CALM	6	0.9											6	0.9				
		TOTAL	50		397		169		22		4				642	100	8323	13.0	592	
		%		7.9		61.6		26.4		3.5	0.6									92.1

* INDICATES LESS THAN 1/2 of 1/10%

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FIGURE II SURFACE WIND SUMMARY WHEN CEILING 0 THROUGH 500 FEET AND/OR VISIBILITY 0 TO 1/2 MILES

U.S. WEATHER BUREAU

SURFACE WIND SUMMARY

With ceilings zero thru 500 feet and/or visibilities zero thru 1/2 miles

DULUTH, MINN.		ANNUAL										JAN. 1939 thru DEC. 1943							
STATION		MONTH										PERIOD OF RECORD							
STA. NO.	MO.	DIR. CODE	0-3 M.P.H.		4-15		16-31		32-47		OVER 47		TOTAL ALL		TOTAL		TOT. # M.P.H. & OVER		
			OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	VEL.	AV. VEL.	OBS.	%	
745		32	N	7	0.9	7	0.9	10	1.3					24	3.1	329	13.7	17	2.2
		02	NNE	1	0.1	7	0.9	7	0.9					15	1.9	225	15.0	14	1.8
		04	NE	14	1.8	125	16.3	65	8.5	9	1.2			213	27.8	2970	13.9	199	26.0
		06	ENE			44	5.7	41	5.4	7	0.9	1	0.1	93	12.1	1657	17.8	93	12.1
		08	E	3	0.4	65	8.5	28	3.6					96	12.5	1168	12.2	93	12.1
		10	ESE	1	0.1	48	6.3	22	2.9					71	9.3	935	13.2	70	9.2
		12	SE	2	0.3	28	3.6	2	0.3	1	0.1	2	0.3	35	4.6	409	11.7	33	4.3
		14	SSE			16	2.1							16	2.1	102	6.4	16	2.1
		16	S	5	0.6	16	2.1							21	2.7	117	5.6	16	2.1
		18	SSW			15	1.9	6	0.8					21	2.7	241	11.5	21	2.7
		20	SW	7	0.9	31	4.1	4	0.5					42	5.5	343	8.2	35	4.6
		22	WSW	1	0.2	15	1.9	2	0.3					18	2.4	174	9.7	17	2.2
		24	W	4	0.5	15	2.0	3	0.4					22	2.9	187	8.5	18	2.4
		26	WNW			10	1.3	3	0.4	3	0.4			16	2.1	269	16.8	16	2.1
		28	NW	3	0.4	12	1.6	9	1.2	3	0.4	1	0.1	28	3.7	485	17.3	25	3.3
		30	NNW	2	0.3	17	2.2	9	1.2					28	3.7	358	12.8	26	3.4
		00	CALM	7	0.9									7	0.9				
			TOTAL	57		471		211		23		4		766	100	9969	13.0	709	
			%		7.4		61.4		27.7		3.0		0.5						92.6

* INDICATES LESS THAN 1/2 of 1/10%

FIGURE III SURFACE WIND SUMMARY, REGARDLESS OF CEILING OR VISIBILITY

U.S. WEATHER BUREAU

SURFACE WIND SUMMARY

DULUTH, MINN.		ANNUAL										JAN. 1939 thru DEC. 1943							
STATION		MONTH										PERIOD OF RECORD							
STA. NO.	MO.	DIR. CODE	0-3 M.P.H.		4-15		16-31		32-47		OVER 47		TOTAL ALL		TOTAL		TOT. # M.P.H. & OVER		
			OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	OBS.	%	VEL.	AV. VEL.	OBS.	%	
745		32	N	40	0.6	264	3.6	59	0.8					363	5.0	3682	10.1	323	4.4
		02	NNE	8	0.1	96	1.3	17	0.3					121	1.7	1232	10.2	113	1.6
		04	NE	55	0.7	672	9.2	172	2.4	9	0.1			908	12.4	10157	11.2	853	11.7
		06	ENE	11	0.1	203	2.8	100	1.4	9	0.1	1	#	324	4.4	4545	14.0	313	4.3
		08	E	57	0.8	366	5.0	93	1.3	2	#			518	7.1	5159	10.0	461	6.3
		10	ESE	12	0.1	338	4.6	69	1.0					419	5.7	4481	10.7	407	5.6
		12	SE	32	0.4	201	2.8	8	0.1	1	#	2	#	244	3.3	1890	7.7	212	2.9
		14	SSE	10	0.1	127	1.8	2	#					139	1.9	1073	7.7	129	1.8
		16	S	24	0.3	141	1.9	14	0.2					179	2.4	1400	7.8	155	2.1
		18	SSW	6	0.1	215	2.9	49	0.7					270	3.7	2864	10.6	264	3.6
		20	SW	27	0.4	511	7.0	114	1.6	2	#			654	9.0	7080	10.8	627	8.6
		22	WSW	10	0.1	257	3.5	52	0.7	3	0.1			322	4.4	3560	11.1	312	4.3
		24	W	25	0.4	507	6.9	109	1.5	1	#			642	8.8	7067	11.0	617	8.4
		26	WNW	6	0.1	315	4.3	186	2.6	8	0.1	1	#	516	7.1	7306	14.2	510	7.0
		28	NW	27	0.4	629	8.6	434	6.0	32	0.4	1	#	1123	15.4	16618	14.8	1096	15.0
		30	NNW	13	0.2	307	4.2	172	2.3	5	0.1			497	6.8	6789	13.7	484	6.6
		00	CALM	65	0.9									65	0.9				
			TOTAL	428		5149		1650		72		5		7304	100	84903	11.6	6876	
			%		5.8		70.4		22.9		0.9		#						94.2

* INDICATES LESS THAN 1/2 of 1/10%

STATIONS FOR WHICH SURFACE WIND SUMMARIES FOR SPECIFIED CEILING
AND VISIBILITY CONDITIONS ARE AVAILABLE, WITH PERIOD OF RECORD

<u>ALABAMA</u>		<u>MISSOURI</u>	
Boaz	Oct. 1941 - May 1946	Vichy	July 1943 - Dec. 1946
<u>ARIZONA</u>		<u>MONTANA</u>	
Globe	July 1943 - Sept. 1945	Belgrade	Jan. 1942 - Dec. 1946
Grand Canyon	Jan. 1940 - Dec. 1945	Broadus	Jan. 1942 - Dec. 1946
		West Yellowstone	Jan. 1942 - Dec. 1946
<u>ARKANSAS</u>		<u>NEBRASKA</u>	
Little Rock	Jan. 1934 - Dec. 1941	Burwell	Jan. 1941 - Nov. 1946
Texarkana	Jan. 1934 - Dec. 1941		
<u>CALIFORNIA</u>		<u>NEVADA</u>	
Beaumont	July 1938 - Feb. 1942	Boulder City	Jan. 1939 - Dec. 1944
Coalinga	Dec. 1941 - Nov. 1946	Ventosa	Jan. 1937 - Dec. 1941
El Centro	May 1932 - May 1933;		
	Mar. 1942 - Mar. 1943	<u>NEW HAMPSHIRE</u>	
Los Angeles	Jan. 1936 - Dec. 1946	Lebanon	Jan. 1941 - July 1943;
Susanville	Mar. 1937 - Feb. 1940		Jan. 1944 - Dec. 1946
<u>COLORADO</u>		<u>NEW MEXICO</u>	
Akron	May 1938 - Dec. 1944	Clayton	Jan. 1934 - Dec. 1936;
Durango	Jan. 1939 - Dec. 1943		Mar. 1944 - Sept. 1945
Greeley	Jan. 1937 - Dec. 1941	<u>NEW YORK</u>	
Trinidad	Oct. 1938 - Sept. 1943	Binghamton	June 1941 - June 1946
		Floyd Bennett	
<u>FLORIDA</u>		Field	Jan. 1938 - Apr. 1938;
Apalachicola	Jan. 1939 - Dec. 1943		Sept. 1938 - Dec. 1942
Clewistown	Sept. 1942 - Sept. 1945	Oneonta	Jan. 1941 - Dec. 1945
<u>GEORGIA</u>		<u>NORTH CAROLINA</u>	
Butler	Feb. 1942 - Dec. 1945	Elizabeth City	Nov. 1942 - Dec. 1946
<u>IDAHO</u>		<u>NORTH DAKOTA</u>	
Bonnars Ferry	Mar. 1937 - Feb. 1940	Williston	Jan. 1941 - Dec. 1945
Coeur d'Alene	Jan. 1942 - Dec. 1946		
<u>IOWA</u>		<u>OKLAHOMA</u>	
Ottumwa	Mar. 1943 - Jan. 1945	Clinton	June 1943 - Jan. 1945
		Elk City	Jan. 1941 - Dec. 1946
<u>KANSAS</u>		<u>OREGON</u>	
Goodland	Jan. 1944 - Dec. 1946	Burns	Nov. 1943 - Dec. 1946
		Port Oxford	Mar. 1943 - Mar. 1946
<u>LOUISIANA</u>		<u>PENNSYLVANIA</u>	
Burrwood (a)	Apr. 1942 - Dec. 1945	Coatesville	Jan. 1941 - Sept. 1946
Monroe (b)	Jan. 1946 - Dec. 1946	Mount Pocono	Jan. 1941 - Nov. 1946
Shreveport (b)	Jan. 1946 - Dec. 1946		
<u>MAINE</u>		<u>SOUTH DAKOTA</u>	
Millinocket	Jan. 1941 - June 1944;	Huron	Jan. 1942 - Dec. 1946
	Jan. 1945 - Dec. 1946		
<u>MARYLAND</u>		<u>TENNESSEE</u>	
Frostburg	Mar. 1937 - Feb. 1940	Knoxville	Jan. 1935 - Dec. 1941
<u>MICHIGAN</u>		<u>TEXAS</u>	
Escanaba	Jan. 1939 - Dec. 1943	Fredericksburg	Jan. 1942 - Dec. 1946
Grand Rapids	Feb. 1938 - Jan. 1943	Galveston	Mar. 1939 - Mar. 1944
Houghton	Dec. 1941 - Nov. 1946	Midland	Apr. 1940 - Dec. 1946
Kinross Field	July 1947 - June 1948	Rock Springs	June 1942 - Jan. 1947
Marquette	Jan. 1939 - Dec. 1943		
<u>MINNESOTA</u>		<u>UTAH</u>	
Duluth	Jan. 1939 - Dec. 1943	Brigham City	Jan. 1937 - Dec. 1941
<u>MISSISSIPPI</u>		<u>VERMONT</u>	
Tupelo	Jan. 1942 - Dec. 1946	Newport	Jan. 1941 - Dec. 1946

VIRGINIA
 Front Royal Mar. 1940 - Dec. 1944
 Pulaski Nov. 1943 - Dec. 1946

WASHINGTON
 Colville Mar. 1937 - Feb. 1940
 Kelso Jan. 1942 - Dec. 1946
 Whidbey Island Jan. 1943 - Mar. 1945

WISCONSIN
 Wausau Jan. 1942 - Dec. 1946

WYOMING
 Cody Dec. 1941 - Nov. 1946
 Kaycee Sept. 1943 - Nov. 1946
 Lander Jan. 1939 - Dec. 1943

- (a) - Monthly and annual summaries (0030 and 1230 hours only)
- (b) - Monthly and annual summaries