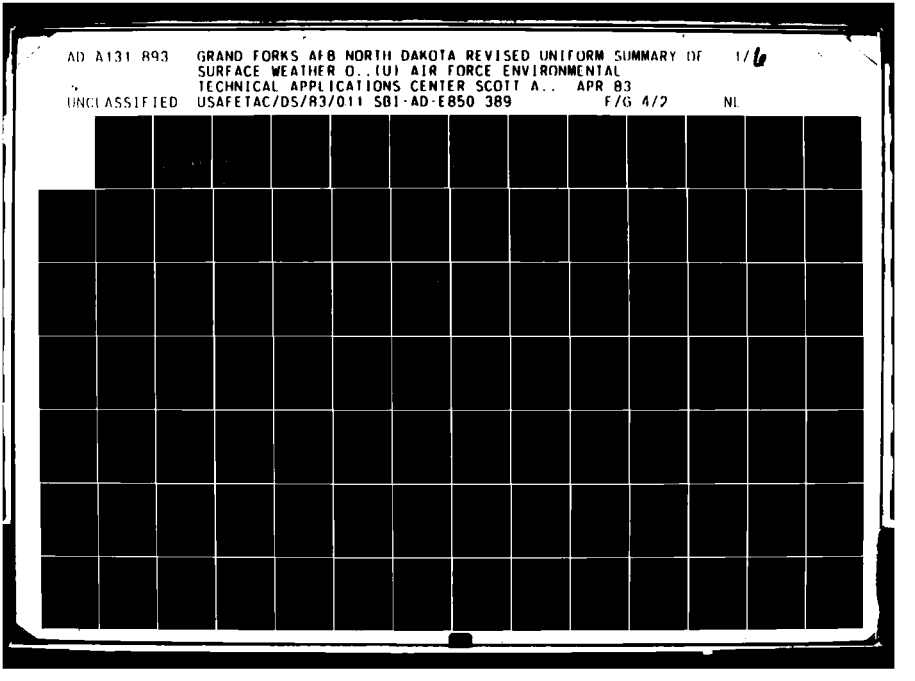
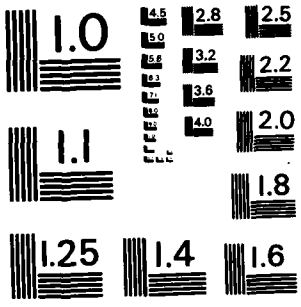

AD A131 893 GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF 1/6
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83
UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL



MICROCOPY RESOLUTION TEST CHART
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DS* 83011

(1)

EMAC

DATA PROCESSING DIVISION
USAFETAC
Air Weather Service (MAC)

GRAND FORKS AFB ND
N 47 58 W 97 24 ELEV 911 FT

WSC #727575
WDR

PARTS A-F HOURS SUMMARIZED: 0000Z - 2300Z

PERIOD OF RECORD:
HOURLY OBSERVATIONS: JAN 73 - DEC 82
SUMMARY OF DAY DATA: JUN 59 - DEC 82

TIME CONVERSION GMT TO LST: -6

APR 28 1983

FEDERAL BUILDING
ASHEVILLE, N. C.

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This technical report has been reviewed and is approved for publication.

Wayne E. McCollom

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REPORT DOCUMENTATION PAGE

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1. REPORT NUMBER: USAFETAC/DS DS83011	2. GOVT ACCESSION NO. AD-A131 893
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle): Revised Uniform Summary of Surface Weather Observations (RUSSWO)- GRAND FORKS AFB, NORTH DAKOTA	5. TYPE OF REPORT & PERIOD COVERED: Final rept
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11. CONTROLLING OFFICE NAME AND ADDRESS: USAFETAC/CBD, Air Weather Service (MAC), Scott AFB, IL 62225	12. REPORT DATE: APR 83
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16. DISTRIBUTION STATEMENT (of this Report)

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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

*RUSSWO	Daily temperatures	Atmospheric pressure
Snowfall	Extreme snow depth	Extreme surface winds
Climatology	Sea-level pressure	Psychrometric summary
Surface Winds	Extreme temperature	Ceiling versus visibility
Relative Humidity	*Climatological data	(over)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report is a six-part statisitical summary of surface weather observations for

GRAND FORKS AFB, NORTH DAKOTA

It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (Daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric (over)

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

*NORTH DAKOTA *GRAND FORKS AFB
*

20. Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurance or cumulative percentage frequency of occuring tables.

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USAFETAC-OS-83/027
HDE 850 389
USND 722 575

The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

U S AIR FORCE
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APPLICATIONS CENTER

REVISED UNIFORM SUMMARY
OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV .
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY_____	APRIL_____	JULY_____	OCTOBER_____
FEBRUARY_____	MAY_____	AUGUST_____	NOVEMBER_____
MARCH_____	JUNE_____	SEPTEMBER_____	DECEMBER_____

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT)	CALL SIGN	WBAN NUMBER
727575	GRAND FORKS AFB NORTH DAKOTA	N 47 58	W 097 24	911	RDR	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1	Grand Forks AFB ND	AFB	Sep 59	Mar 62	N 47 56	W 097 23	911	905	24
2	Same	Same	Apr 62	Dec 70	N 47 58	W 097 24	Same	Same	24
3	Same	Same	Jan 71	Feb 78	N 47 57	Same	Same	Same	24
4	Same	Same	Mar 78	Mar 83	N 47 58	Same	Same	Same	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Sep 59	Located on top of Control Tower	AN/GMQ 1	N/A	80 ft	
2	Apr 60	Located 1560 ft N and 950 ft E of end of rnwy 35.	AN/GMQ 11	RO-2A	15 ft	
3	Apr 61	Located 1560 ft N of S end of rnwy and 950 ft E of centerline.	Same	Same	Same	
4	Apr 66	1. Located 1560 ft N of S end of rnwy & 950 ft E of centerline rnwy 35.	Same	Same	Same	
		2. Located 1000 ft S of N end of rnwy and 500 ft E of centerline rnwy 17.	Same	Same	Same	
5	May 69	1. No change.	Same	RO-362	Same	
		2. No change.	Same		Same	

USAFETAC FORM APR 68 0-19 (OL A)

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT. ABOVE GROUND	
6	Jan 71	1. Located 2800 ft N of the S end of Rnwy and 900 ft E of centerline of Rnwy 35.	GMQ-11	RO-362	15 ft	
		2. Located 2200 ft S of the N end of rnwy and 400 ft E of the centerline of Rnwy 17.	Same		Same	
7	Feb 78	1. Same	Same	Same	Same	
		2. Same	Same		Same	
8	Mar 83	1. Same	Same	Same	Same	
		2. Same				

MAC-8 AFB, IN 46-5010

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A

PART A WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.

2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JAN	00-02			.2	25.4		25.5	5.2	.1	9.0		14.2	927
	03-05			.3	25.8		26.1	4.7	.1	10.8	.3	15.6	930
	06-08			.3	24.4		24.7	4.7		9.9	.3	14.5	930
	09-11		.1	.8	16.8		17.4	7.0	.6	12.6	.3	19.6	930
	12-14			.3	17.3		17.3	6.8	1.7	14.7	1.4	22.8	930
	15-17			.1	18.1		18.2	6.2	1.7	11.3	1.4	19.1	930
	18-20			.3	20.2		20.3	5.6	.8	10.2	.4	16.2	930
	21-23			.4	22.3		22.3	5.3	.3	10.2	.2	15.6	929
TOTALS			.0	.3	21.3		21.5	5.7	.7	11.1	.5	17.2	7436

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
FEB	00-02			.5	20.7		20.8	7.2	.1	7.1	.5	14.5	846
	03-05		.6	.2	22.5		23.2	6.5	.2	6.3		12.8	846
	06-08		.1	.8	21.7		22.5	6.9	.1	7.6		13.9	846
	09-11		.5	.6	19.9		20.3	8.5	1.7	8.9	.1	19.3	846
	12-14		.4	.2	16.5		16.9	7.4	1.9	10.3	.9	19.7	846
	15-17		.2	1.1	16.7		17.6	7.3	2.2	9.8	1.5	19.7	846
	18-20			1.7	15.2		16.3	7.0	1.8	6.5	1.4	15.6	846
	21-23			1.2	16.9		17.8	7.1	.8	6.3	.8	14.3	846
TOTALS			.2	.8	18.8		19.4	7.2	1.1	7.8	.7	16.2	6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAR	00-02	.1	2.7	.6	11.4		14.5	8.2		2.5		10.6	930
	03-05		2.3	1.2	13.1		15.3	10.0		3.3		13.2	930
	06-08		2.7	1.6	13.3		16.5	15.4	.1	4.1		19.2	930
	09-11		2.6	.9	12.6		15.8	15.5	1.4	6.9	.6	23.1	930
	12-14		2.2	.8	11.5		13.8	11.5	1.7	5.7	.1	18.0	930
	15-17	.1	2.3	.6	12.2		14.2	9.7	2.2	5.1		16.0	930
	18-20		2.7	.9	11.5		14.7	9.1	1.0	4.2	.2	14.2	930
	21-23		2.9	.5	11.2		14.2	8.9	.5	2.8	.1	12.3	930
TOTALS		.0	2.6	.9	12.1		14.9	11.0	.9	4.3	.1	15.8	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
APR	00-02	.8	8.3	.4	4.6	.2	12.3	5.8		.3	.9	7.3	900
	03-05	.3	7.6	.2	5.0		11.8	8.6	.1	.6	.4	9.7	900
	06-08	.8	6.3		5.0		10.2	12.3	.1	1.1	1.1	14.6	899
	09-11	.8	6.4		4.3		10.0	8.9	.8	1.3	2.0	12.4	900
	12-14	.3	7.6	.1	3.3	.1	10.6	6.1	.6	.8	1.6	8.9	900
	15-17	.7	8.5	.1	2.8		10.6	5.8	1.0	.9	1.8	9.5	899
	18-20	.1	8.2		3.0		10.7	5.4	.9	.7	1.6	8.6	900
	21-23	.3	9.1		2.6		11.3	4.0	.3	.3	.6	5.2	900
TOTALS		.5	7.8	.1	3.8	.0	10.9	7.1	.5	.7	1.3	9.5	7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAY	00-02	1.0	9.2		.6		9.9	3.5	.9		.3	4.5	930
	03-05	.4	8.2		.8		8.9	5.5	.8		.1	6.2	930
	06-08	.4	10.8		.4		11.2	7.2	1.2			8.4	930
	09-11	.5	10.1		.3		10.4	4.1	1.6		.1	5.8	930
	12-14	.2	6.0		.3		6.1	2.0	1.1		.3	3.4	930
	15-17	1.1	7.0		.3		7.0	2.3	.9		.4	3.5	930
	18-20	2.0	8.3		.4		8.4	2.8	1.6		.4	4.6	930
	21-23	2.5	9.2		.9		9.8	2.0	.9		.1	3.0	930
TOTALS		1.0	8.6		.5		9.0	3.7	1.1		.2	4.9	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & , OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND, OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUN	00-02	2.8	7.2				7.2	.9	.2			1.1	900
	03-05	2.7	7.1				7.1	3.7	.3			4.0	900
	06-08	1.6	7.9				7.9	5.0	1.0			6.0	900
	09-11	.4	8.6				8.6	2.9	.8		.2	3.9	900
	12-14	1.2	6.2				6.2	2.0	.4		.1	2.6	899
	15-17	2.0	5.9			.1	5.9	1.1	.8		.2	2.1	900
	18-20	2.4	5.7			.2	5.8	1.2	.3		.2	1.8	900
	21-23	2.8	5.6				5.6	1.0			.1	1.1	900
TOTALS		2.0	6.8			.0	6.8	2.2	.5		.1	2.8	7199

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JUL	00-02	4.2	4.4			.1	4.4	2.5	.5			3.0	930
	03-05	3.4	5.7				5.7	5.2	.3			5.5	930
	06-08	1.5	4.7				4.7	6.8	.6			7.4	930
	09-11	1.1	3.0				3.0	1.6	1.0			2.6	930
	12-14	1.3	4.2				4.2	.9	.8			1.6	930
	15-17	1.4	3.0				3.0		.9			.9	930
	18-20	3.4	4.7				4.7	.2	1.0			1.2	930
	21-23	5.2	4.5				4.5	.8	.3			1.1	930
TOTALS		2.7	4.3			.0	4.3	2.3	.7			2.9	7440

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	3.0	6.3				6.3	3.2	.5			3.8	930
	03-05	1.9	7.5				7.5	6.7	.4			7.0	930
	06-08	1.9	6.5				6.5	13.4	.9			14.3	930
	09-11	.6	5.8				5.8	6.0	2.5			8.5	930
	12-14	1.3	5.7		.1		5.8	1.3	2.2			3.4	930
	15-17	1.5	7.1				7.1	.8	1.5		.3	2.6	930
	18-20	2.9	4.5				4.5	1.5	1.7		.3	3.5	930
	21-23	1.8	4.9				4.9	2.0	.8			2.8	930
TOTALS		1.9	6.0		.0		6.1	4.4	1.3		.1	5.7	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
SEP	00-02	1.0	5.1				5.1	4.2				4.2	900
	03-05	.7	6.4				6.4	5.0				5.0	900
	06-08	.7	7.0				7.0	8.2	1.2			9.4	900
	09-11	.3	9.3				9.3	6.2	1.9			8.1	900
	12-14	.9	7.8				7.8	5.2	.9		.1	6.2	900
	15-17	.6	7.8				7.8	4.0	1.7		.4	6.1	900
	18-20	.2	6.3				6.3	3.9	.6		.1	4.6	900
	21-23	.3	5.8				5.8	4.0	.1			4.1	900
TOTALS		.6	6.9				6.9	5.1	.8		.1	6.0	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
OCT	00-02	.3	7.8		1.8		9.4	5.7				5.7	930
	03-05		6.9		2.7		9.6	5.5				5.5	929
	06-08		8.4		2.0		10.3	8.5	.3	.3	.2	9.4	930
	09-11		7.4		1.9		9.1	8.8	1.3	.3	.3	10.3	930
	12-14		8.8		2.3		10.2	5.2	1.1	.3	.4	7.0	930
	15-17	.4	7.1		2.6		8.8	5.7	.6	.3	.6	7.3	930
	18-20	.2	8.8		2.2		10.5	5.4	.4	.2	.3	6.3	930
	21-23	.2	6.5		1.8		10.1	4.9			.1	5.1	930
TOTALS		.1	8.0		2.2		9.8	6.2	.5	.2	.2	7.1	7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
NOV	00-02		2.1	.8	14.2		16.2	7.6		2.2		9.8	900
	03-05		2.7	.7	16.9		19.6	8.3		2.3		10.7	900
	06-08		2.1	1.1	14.8		17.6	9.6		3.3	.2	13.1	900
	09-11		2.4	.6	13.2		15.9	12.3	.4	3.0	.3	15.7	899
	12-14		1.9		13.7		15.0	9.0	.4	3.4	.3	12.7	900
	15-17		1.6		14.2		15.6	7.8	1.1	2.9	.6	12.0	900
	18-20		1.0	.8	11.7		13.1	6.2	.2	2.2		8.7	900
	21-23		1.1	.2	14.7		16.0	6.4		2.6	.1	9.0	900
TOTALS			1.9	.5	14.2		16.1	8.4	.3	2.7	.2	11.5	7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
DEC	00-02	.1	.9	1.6	19.7		21.9	10.8	.1	4.3	.2	15.4	930
	03-05		.5	2.0	20.9		23.3	10.2		4.5	.2	14.8	930
	06-08	.1	.5	2.4	22.3		24.8	9.4		6.3	.1	15.8	930
	09-11		.5	1.5	20.0		21.9	12.6	.2	6.6	.3	19.7	930
	12-14		.5	.6	20.8		21.9	13.5	.8	5.1	.6	20.0	930
	15-17		.8	.8	17.5		18.8	11.8	1.5	4.4	.9	18.4	930
	18-20		.8	1.0	18.6		20.0	11.3	.5	5.3	.9	17.6	927
	21-23		.4	1.5	20.6		22.1	9.6	.3	5.4	.1	15.4	927
TOTALS		.0	.6	1.4	20.1		21.8	11.2	.4	5.2	.4	17.1	7434

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL		.0	.3	21.3		21.5	5.7	.7	11.1	.5	17.2	7436
FEB			.2	.8	18.8		19.4	7.2	1.1	7.8	.7	16.2	6768
MAR		.0	2.6	.9	12.1		14.9	11.0	.9	4.3	.1	15.8	7440
APR		.5	7.8	.1	3.8	.0	10.9	7.1	.5	.7	1.3	9.5	7198
MAY		1.0	8.6		.5		9.0	3.7	1.1		.2	4.9	7440
JUN		2.0	6.8			.0	6.8	2.2	.5		.1	2.8	7199
JUL		2.7	4.3			.0	4.3	2.3	.7			2.9	7440
AUG		1.9	6.0		.0		6.1	4.4	1.3		.1	5.7	7440
SEP		.6	6.9				6.9	5.1	.8		.1	6.0	7200
OCT		.1	8.0		2.2		9.8	6.2	.5	.2	.2	7.1	7439
NOV			1.9	.5	14.2		16.1	8.4	.3	2.7	.2	11.5	7199
DEC		.0	.6	1.4	20.1		21.8	11.2	.4	5.2	.4	17.1	7434
TOTALS		.7	4.5	.3	7.8	.0	12.3	6.2	.7	2.7	.3	9.7	87633

PART A ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.

(2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.

(3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS
ATMOSPHERIC PHENOMENA

727575 STATION | GRAND FORKS AFB ND STATION NAME | 59-82 YEARS | ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	DAILY		5.1	4.2	64.9		66.2	21.3	4.4	35.3	.8	5 .4	712
FEB			7.7	5.8	59.5	.2	61.6	23.1	7.2	26.4	.6	45.6	640
MAR		1.0	17.3	5.5	47.3		54.8	29.0	6.7	15.3	.7	41.6	713
APR		4.6	34.1	1.7	21.6	1.2	46.1	25.4	4.1	3.8	.1	29.7	690
MAY		12.9	44.9		3.8	1.1	46.6	21.6	2.8	.3		23.0	713
JUN		22.9	50.0			1.7	50.0	17.2	2.6			16.8	690
JUL		31.7	45.2			1.4	45.2	13.5	3.2			14.9	713
AUG		22.3	42.9			1.3	42.9	20.3	5.9			23.0	713
SEP		10.2	40.1		1.0	.3	40.5	19.5	4.5			21.4	706
OCT		2.7	33.5	1.1	10.2	.1	38.0	20.7	4.0	1.1		22.3	744
NOV			17.5	5.3	41.1		49.7	24.2	4.3	8.8	.3	32.2	720
DEC		.1	12.1	9.5	61.2		64.2	28.6	3.8	20.4		45.4	744
TOTALS		9.0	29.2	2.8	25.9	.6	50.5	22.0	4.5	9.3	.2	30.6	8498

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.

2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

Values for means and standard deviations do not include measurements from incomplete months.

NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.

(2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.

(3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:		U. S. Navy and National Weather Service (USWB)	
Beginning thru 1945	at 0800LST	Beginning thru Jun 52	at 0030GMT
Jan 46-May 57	at 1230GMT	Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT	Jun 57-present	at 1200GMT

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

727575 GRAND FORKS AFB ND 59-82
STATION STATION NAME YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	.01-.4	.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	33.5	39.7	5.6	9.0	6.2	4.2	1.4	.3						26.6	713	.67	2.43	.10
FEB	37.8	38.2	4.6	8.0	5.2	3.7	.9	.6						24.0	650	.57	3.21	.07
MAR	45.1	31.1	3.7	8.4	2.6	5.9	1.7	1.0	.3					23.8	711	.97	2.92	.13
APR	53.9	20.6	2.2	7.7	3.6	5.1	3.6	2.8	.7					25.7	690	1.64	4.32	TRACE
MAY	52.8	15.6	3.7	6.5	4.5	8.0	4.6	3.2	1.0	.1				31.6	712	2.38	7.83	.47
JUN	48.8	16.3	2.6	7.3	6.5	6.0	6.5	3.8	2.3					35.0	689	3.08	8.10	1.08
JUL	53.8	13.9	2.0	8.1	4.1	7.2	5.9	3.4	1.7					32.3	712	2.78	6.06	.74
AUG	56.4	14.3	3.6	5.8	2.9	7.7	5.0	2.7	1.4	.1				29.3	713	2.31	4.67	.35
SEP	59.3	14.9	4.1	5.2	3.5	4.2	3.5	2.7	2.4	.1				25.9	707	2.54	6.21	.27
OCT	61.4	17.1	1.5	6.7	3.2	4.3	2.8	2.3	.7					21.5	744	1.44	5.71	.16
NOV	49.3	31.0	4.3	6.7	3.8	2.8	1.4	.7	.1					19.7	720	.66	3.33	.02
DEC	35.7	40.2	4.6	8.3	5.4	4.4	.9	.4						24.1	743	.63	1.35	.11
ANNUAL	49.0	24.4	3.5	7.3	4.4	5.3	3.2	2.0	.9	.0				26.6	8501	19.67		

USAFETAC FORM OCT 75 0-15-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

727575 STATION GRAND FORKS AFB ND STATION NAME 59-82 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59										* .20	.64	.36	.18	
60	-	.39	.18	.10	.41	.71	1.06	.50	1.01	.39	.60	.08	.71	1.06
61		.17	.14	.14	.41	.36	.58	.51	.25	1.38	.71	.48	.14	1.38
62	-	.16	.41	.25	.13	3.06	.56	.33	.47	2.11	.26	.64	.22	3.06
63		.06	.20	.14	.47	.28	.53	1.38	.35	.11	.23	.09	.71	1.38
64	-	.23	.10	.28	1.00	.44	2.25	.76	1.31	2.06	.11	.36	.56	2.25
65		.11	.06	.25	.70	1.25	1.31	1.12	.78	1.50	.32	.37	.11	1.50
66	-	.29	.18	1.16	.44	.58	1.14	1.46	1.17	.23	.58	.21	.29	1.46
67		.85	.13	.20	1.13	.39	.84	.66	.24	1.13	.56	.05	.23	1.13
68	-	.13	.02*	.18	1.18	.58	1.68	1.32	1.15	.64	.33	.10	.15	1.68
69	*	.23	.30	.07	.47	.76	2.02	.28	.64	1.77	.76	.07*	.14	2.02
70	-	.15	.05	.31	1.22	1.20	.86	1.36	1.28	2.14	.64	.94	.25	2.14
71		.58	.09	.44	.73	.88	.82	2.34	2.91	.58	1.14	.20	.06	2.91
72	-	.07	.09	.20	1.06	.57	.67	.36	.63	1.11	.20	.04	.25	1.11
73		.04	.06	.76	.17*	1.47*	.71	.30	.47	1.57	.84	.24	.09	1.57
74	-	.12	.17	.16	1.09	.72	.53	.50	1.45	.49	.32	.52	.26	1.45
75	*	.06	.22	.73	.78	.82	1.30*	.43	.54	.85	.52	.19	.25	1.30
76	-	.48	.55	.75	.59	.18	.71	1.73	.39	.31	.09	.01	.14	1.73
77		.15	.53	.60	.35	1.43	.46	.63	.47	1.05	1.14	1.12	.22	1.43
78	-	.07	.10	.20	.30	.76	.44	.60	1.20	1.45	.13	.23	.43	1.45
79		.40	.73	.62	.98	.82	1.62	2.32	.54	.59	.60	.13	.11	2.32
80	-	.18	.14	.47	TRACE	.35	.67	.59	1.01	.80	.58	.36	.07	1.01
81		.04	.37	.22	.55	1.31	1.50	.94	.95	2.80	1.65	.23	.04	2.80
82	-	.40	.15	.65	.13	.54	1.08	1.03	.69	.86	1.85	.35	.38	1.85
MEAN		.239	.216	.395	.621	.818	1.029	.955	.865	1.127	.617	.307	.254	1.759
S D		.209	.184	.285	.374	.606	.521	.613	.577	.711	.453	.277	.189	.642
TOTAL OBS		713	650	711	690	712	689	712	713	707	744	720	743	8501

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AA 44 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

727575 STATION — GRAND FORKS AFB ND STATION NAME — 59-82 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59									* .44	2.15	1.44	.73	
60	.52	.36	.13	1.24	2.46	3.32	.74	3.03	.85	1.30	.30	1.35	15.62
61	.35	.49	.31	1.03	.72	1.46	2.12	.45	4.41	1.74	.59	.4	14.[illegible]
62	.77	.86	1.05	.44	7.83	1.79	1.64	1.12	3.31	.28	.86	.42	20.37
63	.10	.37	.34	1.35	1.05	1.48	4.13	.51	.27	.24	.20	1.24	11.28
64	.32	.22	.78	3.44	.81	8.10	2.89	2.65	3.45	.23	.45	1.32	24.66
65	.23	.11	.80	2.26	5.05	3.47	3.61	2.03	6.21	1.10	1.41	.37	26.65
66	.79	.30	2.92	1.31	1.00	3.55	6.06	3.34	.48	1.22	.42	.76	22.15
67	2.43	.28	.56	4.02	.47	2.83	1.07	.35	1.99	1.69	.17	.72	16.58
68	.49	.15*	.57	2.71	2.12	5.54	4.11	3.69	2.01	.67	.25	.70	*23.01
69	* 1.38	.85	.15	.56	2.11	4.72	1.71	1.01	5.00	1.16	.12*	.60	*19.37
70	.47	.18	1.05	2.82	4.32	2.90	4.20	2.03	3.19	1.44	1.20	.98	24.77
71	.81	.10	1.06	.97	2.15	3.81	5.71	4.67	2.24	3.58	.27	.19	25.55
72	.18	.31	.70	2.07	1.08	1.23	1.30	1.98	2.41	.35	.08	.56	12.25
73	.10	.07	1.04	.37*	3.22*	2.10	.74	1.43	3.98	1.95	.66	.43	*16.08
74	.39	.45	.53	2.87	3.96	1.30	2.21	4.31	.83	1.10	.57	.47	18.99
75	* .26	.62	2.10	2.75	1.27	4.86*	1.62	1.81	1.00	1.58	.41	.44	*18.72
76	1.28	1.00	1.63	1.19	.60	3.09	2.37	1.69	.53	.16	.02	.57	14.13
77	.62	.94	1.90	.73	4.36	1.37	3.15	2.83	3.30	1.51	3.33	1.26	25.31
78	.22	.37	.25	.82	2.49	1.08	1.80	4.06	2.78	.34	.84	.99	16.04
79	1.56	3.21	2.05	3.71	2.03	3.08	4.63	1.07	.85	.84	.21	.11	23.32
80	.81	.80	.65	TRACE	.77	1.30	1.95	4.30	2.37	1.15	.96	.19	15.25
81	.13	.61	.36	.65	3.33	4.19	1.77	3.01	5.35	3.07	.47	.13	22.07
82	1.45	.42	1.01	.38	3.30	3.37	3.27	1.76	1.65	5.71	.66	.51	23.59
MEAN	.667	.568	.971	1.639	2.377	3.085	2.780	2.310	2.541	1.440	.662	.628	19.614
S D	.588	.641	.733	1.195	1.818	1.731	1.525	1.316	1.671	1.253	.695	.392	5.018
TOTAL OBS	713	650	711	690	712	689	712	713	707	744	720	743	8521

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AA 64 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL
(FROM DAILY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 59-87 (YEARS)

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 1 00	1 01 2 50	2 51 5 00	5 01 10 00	10 01 20 00	OVER 20 00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0 1 0 4	0 5 1 4	1 5 2 4	2 5 3 4	3 5 4 4	4 5 6 4	6 5 10 4	10 5 15 4	15 5 25 4	25 5 50 4	OVER 50 4					
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN	34.8	38.3	11.8	9.9	2.7	1.1	.6	.8						26.9	710	7.9	21.1	1.1
FEB	39.5	35.5	11.8	8.6	2.8	.8	.2	.6	.2					24.9	650	6.3	32.9	1.3
MAR	52.7	27.1	9.8	4.8	2.8	.7	1.1	.6	.3	.1				20.2	712	7.9	26.0	TRACE
APR	78.4	12.0	3.2	3.2	1.3	1.2	.1	.3	.3					9.6	690	4.0	14.5	TRACE
MAY	96.3	2.7	.3	.4		.3								1.0	712	.4	4.4	.0
JUN	100.0														711	.0	.0	.0
JUL	100.0														734	.0	.0	.0
AUG	100.0														738	.0	.0	.0
SEP	99.0	.8			.1									.1	720	.1	1.5	.0
OCT	89.8	7.5	.5	1.1	.7	.1	.1	.1						2.7	744	1.2	7.0	.0
NOV	58.5	25.4	6.9	4.7	1.9	1.4	.4	.6	.1					16.1	720	5.7	22.8	.1
DEC	38.8	39.0	10.2	7.4	2.8	.8	.4	.3	.3					22.2	743	6.5	15.4	.2
ANNUAL	74.0	15.7	4.5	3.3	1.3	.5	.2	.3	.1	.0				10.3	8584	39.9		

USAFETAC FORM OCT 75 0-15-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
SNOWFALL

FROM DAILY OBSERVATIONS

727575 STATION — GRAND FORKS AFB ND STATION NAME — 59-82 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59						*	.0*	.0*	.0	TRACE	4.1	3.9	.2	
60		4.0	2.3	.1	4.5	.1	.0	.0	.0	.0	TRACE	.8	7.1	7.1
61		1.7	1.4	1.4	.5	TRACE	.0	.0	.0	TRACE	TRACE	2.6	.7	7.6
62		1.9	4.1	2.3	1.0	.0	.0	.0	.0	.0	TRACE	5.4	2.2	5.4
63		.7	2.0	1.6	2.0	TRACE	.0	.0	.0	.0	.0	1.6	7.2	7.2
64		3.2	1.1	2.8	3.6	.0	.0	.0	.0	TRACE	TRACE	4.3	5.6	5.6
65		1.1	.6	2.5	7.0	2.5	.0	.0	.0	TRACE	.0	3.5	1.0	7.1
66		2.4	1.8	11.6	2.9	TRACE	.0	.0	.0	.0	TRACE	2.1	3.9	11.6
67		4.5	1.3	2.0	4.6	3.4	.0	.0	.0	.0	1.0	.4	1.1	4.6
68		1.4	.4*	1.8	1.2	TRACE	.0	.0	.0	.0	2.2	1.0	1.6	2.2
69	*	2.0	3.0	.7	TRACE	.0	.0	.0	.0	.0	1.1	.2*	1.4	3.1
70		1.5	.5	3.1	9.7	TRACE	.0	.0	.0	.0	TRACE	1.1	2.5	9.7
71		4.0	1.7	4.0	.5	TRACE	.0	.0	.0	.0	4.7	1.0	2.0	4.7
72		3.2	1.6	5.2	3.0	TRACE	.0	.0	.0	1.5	1.7	1.4	4.3	5.2
73		.6	.9	1.6	.7*	.0*	.0	.0	.0	.0	.0	3.1	1.9	3.1
74		3.1	4.5	1.2	.5	TRACE	.0	.0	.0	TRACE	.7	6.1	2.8	6.1
75	*	.6	2.3	7.0	3.0	.0	.0*	.0	.0	.0	TRACE	5.5	3.0	7.1
76		4.5	5.0	6.0	TRACE	TRACE	.0	.0	.0	.0	.3	.1	1.6	6.0
77		2.0	5.5	2.1	1.0	.0	.0	.0	.0	.0	.3	8.0	4.0	8.1
78		1.7	2.4	2.0	3.1	.0	.0	.0	.0	.0	TRACE	3.0	4.6	4.6
79		4.1	7.3	5.5	1.8	.6	.0	.0	.0	.0	3.1	1.3	1.1	7.3
80		6.0	1.5	4.7	TRACE	.0	.0	.0	.0	.0	.6	2.9	2.0	6.1
81		1.0	1.5	TRACE	TRACE	TRACE	.0	.0	.0	.0	2.0	2.0	.4	2.0
82		6.0	2.0	1.8	.8	.0	.0	.0	.0	.0	TRACE	3.1	.6	6.0
MEAN		2.81	2.38	3.15	2.23	.30	.00	.00	.00	.06	.91	2.68	2.67	6.14
S D		1.671	1.764	2.681	2.442	.878	.000	.000	.000	.306	1.378	2.041	2.019	2.215
TOTAL OBS		711	650	712	690	712	711	734	738	720	744	720	743	8584

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AA 66 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

727575 STATION GRAND FORKS AFB ND STATION NAME 59-82 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59					*	.0*	.0*	.0	TRACE	7.0	12.6	.2	
60	6.0	4.0	.3	8.2	.1	.0	.0	.0	.0	TRACE	2.6	13.4	34.9
61	3.4	5.0	1.8	.8	TRACE	.0	.0	.0	TRACE	TRACE	3.6	2.5	17.1
62	8.2	8.7	10.3	1.4	.0	.0	.0	.0	.0	TRACE	7.2	3.7	39.5
63	1.1	3.7	3.6	4.2	TRACE	.0	.0	.0	.0	.0	1.8	12.7	27.1
64	4.2	3.1	7.6	8.8	.0	.0	.0	.0	TRACE	TRACE	5.1	14.2	42.8
65	2.6	1.3	6.9	7.6	2.5	.0	.0	.0	TRACE	.0	13.4	2.9	39.2
66	7.2	2.7	26.0	9.0	TRACE	.0	.0	.0	.0	TRACE	4.0	8.5	57.4
67	21.1	2.8	4.9	5.9	4.4	.0	.0	.0	.0	1.0	1.1	4.3	45.5
68	4.6	1.5*	1.8	2.6	TRACE	.0	.0	.0	.0	2.2	2.4	6.6	* 22.1
69	* 13.4	8.1	1.5	TRACE	.0	.0	.0	.0	.0	1.6	.5*	6.0	* 31.1
70	4.7	1.8	9.4	14.5	TRACE	.0	.0	.0	.0	TRACE	3.0	10.6	44.0
71	7.1	2.1	9.0	.7	TRACE	.0	.0	.0	.0	5.1	1.8	4.7	30.4
72	5.9	6.1	10.5	9.1	TRACE	.0	.0	.0	1.5	2.4	1.5	7.6	44.6
73	1.6	1.4	2.7	.7*	.0*	.0	.0	.0	.0	.0	8.7	6.5	* 21.6
74	8.5	10.0	4.1	.5	TRACE	.0	.0	.0	TRACE	.7	6.5	6.2	36.5
75	* 2.8	7.8	23.4	5.6	.0	.0*	.0	.0	.0	TRACE	8.3	5.3	* 50.2
76	13.8	8.7	18.0	TRACE	TRACE	.0	.0	.0	.0	.3	.1	6.6	47.5
77	7.5	9.2	6.5	1.0	.0	.0	.0	.0	.0	.3	22.8	15.4	62.7
78	3.4	5.8	2.8	3.1	.0	.0	.0	.0	.0	TRACE	12.8	10.2	38.1
79	17.1	32.9	13.7	7.2	1.6	.0	.0	.0	.0	3.1	3.3	1.1	80.0
80	14.1	9.1	8.5	TRACE	.0	.0	.0	.0	.0	1.2	5.7	3.6	42.4
81	1.9	4.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	4.1	2.5	1.3	13.8
82	18.8	5.1	4.3	.8	.0	.0	.0	.0	.0	TRACE	5.0	1.5	35.5
MEAN	7.77	6.30	7.95	3.99	.39	.00	.00	.00	.06	1.21	5.69	6.50	40.99
S D	5.859	6.469	6.709	4.092	1.087	.000	.000	.000	.306	1.896	5.303	4.437	15.237
TOTAL OBS	710	650	712	690	712	711	734	738	720	744	720	743	8584

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AM 88 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH
(FROM DAILY OBSERVATIONS)

727575 GRAND FORKS AFB ND 59-82
STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	2.1	4.2	10.0	2.7	8.6	20.0	37.3	14.8	.4					93.7	711			
FEB	3.8	3.4	14.2	10.2	5.8	13.8	28.2	18.0	2.6					92.8	650			
MAR	18.5	12.9	11.9	6.7	6.0	18.1	17.8	6.2	1.8					66.6	713			
APR	69.9	12.8	5.2	2.2	2.2	5.7	1.6	.6						17.4	690			
MAY	98.7	.6	.4	.1	.1									.7	713			
JUN	100.0														712			
JUL	100.0														735			
AUG	100.0														738			
SEP	99.9		.1											.1	720			
OCT	95.8	2.0	.9	.7	.4	.1								2.2	743			
NOV	53.2	16.3	8.5	9.7	3.8	5.6	1.7	1.4						30.6	720			
DEC	10.9	13.7	15.7	16.0	9.4	16.8	13.3	4.2						75.4	744			
ANNUAL	62.7	5.5	5.6	4.0	3.0	6.7	8.3	3.8	.4					31.8	8589			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

FROM DAILY OBSERVATIONS

727575 STATION — GRAND FORKS AFB ND STATION NAME — 59-82 YEARS

DAILY SNOW DEPTH IN INCHES

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59						*	0*	0*	0	0	3	7	7	
60	5	4	2	5	0	0	0	0	0	TRACE	4	8	8
61	8	5	1	TRACE	TRACE	0	0	0	0	0	3	6	8
62	9	9	13	7	0	0	0	0	0	TRACE	5	4	13
63	5	2	2	1	TRACE	0	0	0	0	0	2	9	9
64	3	2	7	5	0	0	0	0	0	0	4	16	16
65	18	17	9	7	0	0	0	0	0	0	8	7	18
66	9	9	30	6	1	0	0	0	0	0	3	7	33
67	22	21	10	4	3	0	0	0	0	1	0	5	22
68	8	5	2	1	0	0	0	0	0	2	2	6	8
69	* 17	20	20	7	0	0	0	0	0*	1	0	8	20
70	12	13	9	6	0	0	0	0	0	0	4	9	13
71	13	12	5	1	0	0	0	0	0	5	5	3	13
72	4	4	9	6	0	0	0	0	1	3	2	9	9
73	9	1	1	1	0	0	0	0	0	0	6	9	9
74	14	18	14	6	TRACE	0	0	0	0	TRACE	4	6	18
75	* 6	11	19	17	0	0	0	0	0	0	5	3	19
76	9	9	13	0	0	0	0	0	0	TRACE	TRACE	4	13
77	8	8	7	1	0	0	0	0	0	0	19	18	19
78	13	12	13	3	0	0	0	0	0	0	6	11	13
79	26	36	33	6	1	0	0	0	0	0	2	1	36
80	9	9	11	0	0	0	0	0	0	TRACE	3	2	11
81	1	2	2	0	0	0	0	0	0	2	2	3	3
82	18	16	9	1	0	0	0	0	0	1	2	2	18
MEAN	10.6	10.7	10.5	4.0	.2	.0	.0	.0	.0	.7	4.1	6.6	14.1
S D	6.446	8.139	8.565	3.914	.671	.000	.000	.000	.204	1.363	3.821	4.252	7.708
TOTAL OBS	711	650	713	690	713	712	735	738	720	743	720	744	8589

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AIR 60 0-88-5 (OLA)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.

b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

*Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SURFACE WINDS

FROM DAILY OBSERVATIONS

727575 STATION — GRAND FORKS AFB ND STATION NAME — 60-82 YEARS

DAILY PEAK GUSTS IN KNOTS

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
60		W	*50N	41W	39S SE	36SSW	*41N	40SSW	34N	30WNW	34NNW	46NNW	*35	
61	NNW	36WNW	34NW	38NNW	39S	37N	33WNW	42S	32WSW	42NW	39WNW	38SSE	32	WNW 47
62	SSW	35NNW	44NNW	33S	37S	46SE	33N	*31W	*43S	*38WNW	*36WNW	37NNW	51	NNW 51
63	WNW	47NW	37WNW	46NNW	47NNW	41WSW	*37SE	38N	33N	35SW	41SSE	32NNW	46	WNW 47
64	WNW	39NNW	45NNW	44NNW	62E SE	48NNW	46NNW	45NNW	41NNW	59W	48W	35SSE	35	NNW 62
65	NNW	43WNW	57NNW	43NNW	43WNW	45W	41NW	37E	33WSW	38NW	43WNW	42WNW	36	WNW 57
66	W	42W	37NNW	63NNW	43SW	55SSE	42WNW	53W	38NW	39WNW	50WNW	30SSE	*39	NNW 63
67	NNW	51N	41SW	48NNW	47N	44W	36NW	48NW	32S	37W	47WNW	42N	39	NNW 51
68	SSE	50NW	45WNW	44N	43NNW	38W	3234/	5234/	4227/	4833/	5127/	3634/	50	34/ 52
69	31/	3729*	4036/	3732/	3427/	39 1/	3632/	2920/	5118/	4311/	3026/	3816/	31	27/ 51
70	27/	3735/	4334/	3729/	5518/	4316/	4024/	4027/	3824/	4532/	3914/	4527/	44	29/ 55
71	35/	3634/	3932/	4015/	4418/	5025/	4012/	4427/	4333/	4521/	4528/	4936/	31	18/ 50
72	31/	4833/	4131/	5129/	3134/	4633/	4429/	4433/	3928/	4631/	4234/	3336/	39	31/ 51
73	31/	3718/	3616/	3315/	4935/	3722/	4233/	54 1*	4214*	3029/	3528/	3535/	47	33/ 54
74	18/	3034/	3827/	3717/	4022/	4527/	4620/	4622/	3923/	4917/	3635/	3235/	33	27/ 46
75	32/	5433/	40 3*	3335/	3215/	4228/	4225/	4032/	3416/	3416/	4236/	3834/	36	32/ 54
76	1/	4130/	4334/	5314/	5034/	3636/	3336/	3327/	4331/	3928/	5526/	4726/	41	26/ 55
77	35/	4334/	3836/	3736/	4119/	3529/	4424/	4433/	5433/	4332/	4233/	5535/	38	33/ 55
78	36/	5034/	4132/	4528/	4417/	4023/	4115/	4131/	47 4/	5029/	4227/	4728/	41	36/ 51
79	24/	2935/	4035/	4530/	4135/	3530/	4027/	2834/	3230/	3936/	4234/	3829/	43	35/ 45
80	35/	4631/	3432/	4136/	4529/	4926/	4023/	3231/	4129/	3730/	4631/	3032/	41	29/ 49
81	35/	3635/	4028/	3326/	3823/	4831/	4416/	3231/	3329/	4116/	4035/	3917/	33	23/ 48
82	35/	4317/	3829/	5018/	4515/	4532/	3710/	4433/	4834/	3236/	2936/	4018/	33	29/ 51
MEAN	41.2	43.5	42.7	43.4	42.6	39.6	41.2	39.9	41.2	41.7	39.3	38.9		51.1
S D	6.624	4.948	7.377	7.032	5.475	4.376	7.327	6.584	6.587	6.489	6.505	6.308		4.924
TOTAL OBS	677	622	704	689	713	675	703	697	671	708	689	702		8251

NOTES * (BASED ON LESS THAN FULL MONTHS)

$ (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

USAF ETAC FORM AM 64 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	1.6	3.9	4.9	1.8	1.9	.4					15.5	13.1
NNE	.3	.2	.4	.4								1.4	7.8
NE	.4	.1										.5	2.6
ENE	.1	.1	.1									.3	5.7
E	.2	.2	.5	.1								1.1	7.3
ESE	.1	.9	.3									1.3	6.0
SE	.3	1.6	.8	.3								3.1	6.5
SSE	1.2	1.3	1.6	1.9	.1							5.8	8.3
S	1.0	2.7	3.7	1.9	1.0							10.2	8.9
SSW	.9	1.3	1.2									3.3	5.2
SW	1.2	2.3	.2									3.7	4.3
WSW	.6	1.1	.6	.2								2.5	5.7
W	1.1	4.5	3.2	2.0	.2	.1						11.2	7.8
WNW	.6	2.6	3.0	2.5	.9	.3	.1					10.0	10.1
NW	.8	1.4	3.9	3.3	1.3	.2						10.9	10.7
NNW	.5	1.0	3.1	3.3	1.1	.6	.3	.1				10.1	12.4
VARBL													
CALM												3.8	
	10.4	22.5	26.6	21.0	6.4	3.2	.9	.1				100.2	9.7

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 0300-0500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	1.6	4.2	4.6	2.2	1.7	.5	.1				15.4	13.6
NNE	.1	.3	.1	.1								.6	6.2
NE		.2	.1									.3	5.7
ENE	.1	.2		.3								.5	8.8
E	.2	.1	.4									.8	5.9
ESE	.1	.3	.8									1.7	6.6
SE	.2	1.3	1.0	.3								2.8	6.7
SSE	1.2	1.9	2.4	1.7	.3							7.5	6.3
S	1.4	3.9	3.1	1.9	.5							10.8	7.9
SSW	.5	1.4	.8	.1								2.8	5.4
SW	.4	1.5	.3	.1								2.4	5.1
WSW	.5	1.5	.9	.8	.2							3.9	7.6
W	1.7	4.9	4.3	1.5	.5	.2						13.2	7.7
WNW	.5	2.5	3.0	3.2	.4	1.2						10.9	16.9
NW	.4	1.3	2.9	2.6	.5	.5	.2					8.5	11.1
NNW	.8	2.9	3.8	2.0	.8	.1	.2	.1				10.6	9.9
VARBL													
CALM												7.2	
	6.7	26.3	28.0	19.4	5.5	3.8	1.0	.2				100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 0600-0800 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.8	3.3	5.2	2.5	1.3	.2					15.3	13.2
NNE	.2	.4	.2	.3								1.2	6.4
NE	.1	.3		.1								.5	5.6
ENE		.1	.1									.2	5.5
E	.3	.2	.4									1.0	5.7
ESE	.5	.1	.3	.3								1.3	6.3
SE	.6	1.9	1.6	.1								4.3	6.2
SSE	.8	1.9	2.6	1.0	.9							7.1	8.6
S	1.7	3.7	4.3	2.2	.5	.1						12.2	7.9
SSW	.6	1.2	1.2	.1								3.1	5.7
SW	.9	1.3	.6	.1								2.9	5.2
WSW	.2	1.3	.8	.9	.5							3.7	9.4
W	1.6	3.7	3.2	1.3	.6							1.4	7.4
WNW	1.4	3.8	3.3	3.0	1.1	.6						13.2	9.4
NW	.6	.8	3.2	2.9	.4	.4	.1	.3				8.8	11.9
NNW	.3	1.7	2.3	3.1	.6		.1	.1				8.3	11.3
VARBL													
CALM												.6	
	11.6	24.2	27.2	23.5	7.5	2.5	.4	.4				100.1	8.7

TOTAL NUMBER OF OBSERVATIONS 932

USAFETAC FORM 0-8-5 (OL A) JUL 64 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.3	3.7	5.9	3.2	1.5	.2	.3				16.6	14.1
NNE	.1	.1	.3	.1								.5	6.7
NE	.1	.3	.3	.2								1.0	6.7
ENE	.1											.1	2.0
E	.2	.5	.4	.2								1.4	6.5
ESE	.1	.2	.3									1.6	5.7
SE	.2	1.1	1.5	.3								3.1	7.2
SSE	.8	1.4	1.8	1.4	.1							5.5	7.8
S	2.5	2.9	3.7	2.4	2.5							13.[illegible]	9.5
SSW	.5	1.8	1.2	.2								3.8	6.1
SW	.9	1.4	.5	.1	.1							3.3	5.8
WSW	.6	1.3	.4	.5								2.9	6.1
W	1.5	4.3	3.8	2.6	.5							11.8	8.0
WNW	.4	1.5	2.4	3.8	1.1	.8	.3	.1				10.3	13.3
NW	.2	1.2	2.9	2.8	1.2	.1	.2	.1				8.7	11.9
NNW	.6	1.3	3.2	2.3	1.1	.1						8.6	10.4
VARBL													
CALM												8.3	
	9.1	21.3	26.3	22.8	9.4	2.5	.8	.5				100.3	9.3

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-8 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.4	4.2	7.2	2.9	1.1	.2	.4				18.5	13.5
NNE	.8	.3	.5	.3								1.9	6.2
NE	.1	.1		.1								.3	7.7
ENE	.1	.1		.1								.3	6.0
E		.8	.2	.3								1.3	7.3
ESE	.3	.8	1.0	.1								2.2	6.7
SE	.4	.9	1.1	.2	.1							2.7	7.2
SSE	.3	1.0	2.6	1.3	.3							5.5	9.1
S	1.3	1.9	3.0	3.3	2.3	.1						11.9	10.7
SSW	.4	1.5	1.5	.6								4.1	7.8
SW	.5	1.0	1.5	.2								3.2	6.4
WSW	.2	.8	.8	.6								2.4	7.7
W	.4	1.9	2.7	3.2	.4			.1				8.8	10.1
WNW	.4	.9	3.2	2.9	1.0	.3	.1	.2				9.0	11.9
NW	.6	1.8	2.4	4.4	2.4	.8	.8	.1				13.2	12.7
NNW	.4	1.2	2.3	4.0	1.1	.6						9.6	12.2
VARBL													
CALM												5.1	
	7.5	16.2	26.9	29.0	10.4	2.9	1.1	.9				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.7	4.9	7.1	2.5	.5	.2	.2				18.2	12.6
NNE	.2	.4	1.0	.5								2.2	8.7
NE	.2	.2										.4	3.3
ENE	.1	.3	.2									.6	5.2
E	.6	.5	.6	.2								2.0	5.6
ESE	.9	1.2	1.1	.3								3.4	5.8
SE	.6	1.2	1.5	.3								3.7	6.6
SSE	.5	2.3	1.9	2.4	.2							7.3	8.8
S	.4	2.6	2.4	3.5	1.2	.4						10.5	11.0
SSW	.1	1.2	1.3	.2								2.8	7.3
SW	.1	1.3	.6	.6								2.7	7.7
WSW	.4	1.0	.8	.3	.1	.1						2.7	8.0
W	.3	2.6	3.7	1.7		.1						8.4	8.6
WNW	.5	1.8	2.8	2.6	.1	.2	.4					8.5	10.4
NW	1.1	1.5	2.5	3.9	1.5	.9	.3					11.6	12.3
NNW	.5	1.0	2.3	4.3	.9	.8	.2					9.9	12.6
VARBL													
CALM												5.3	
	7.5	20.8	27.5	28.1	6.5	3.0	1.2	.2				100.3	9.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 18-2-22 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.3	4.3	4.4	2.0	1.4	.3	.1				15.5	12.7
NNE	.2	.6	.5	.5								1.9	7.8
NE	.2	.6	.3	.1								1.3	5.7
ENE	.4	.8	.2									1.4	4.2
E	1.2	.9	.2									2.3	4.3
ESE	.1	.5										.6	3.7
SE	1.6	1.2	.4	.2								3.4	4.5
SSE	.5	2.2	3.9	1.2	.4							8.2	6.6
S	.5	2.4	3.2	2.5	1.3	.8						10.9	11.3
SSW	1.4	1.4	.8	.3								3.9	5.2
SW	.3	.8	.9	.5								2.5	7.3
WSW	.8	1.5	.5	.5	.1	.1						3.5	6.9
W	1.7	3.9	2.8	3.0	.4							11.8	7.9
WNW	.9	2.6	2.9	2.2	.2	.4	.2					9.4	9.7
NW	.5	1.3	3.1	3.7	1.2	.5						10.3	11.4
NNW		1.1	1.9	2.0	.9	.3	.4	.1				6.8	13.2
VARBL													
CALM												0.6	
	11.1	23.9	26.0	21.2	6.6	3.5	1.0	.2				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.2	5.1	3.2	2.0	1.8	.4					15.6	12.4
NNE	.3	.9	.5	.3	.1							2.2	7.3
NE	.1	.5	.1									.8	5.0
ENE	.4											.4	2.5
E	.1	.1	.3									.5	7.0
ESE	.2	.5	.2									1.0	4.9
SE	.3	1.6	.5	.1	.1							2.7	5.7
SSE	.6	2.0	1.2	1.7	.2							5.8	8.7
S	1.1	3.6	3.4	2.2	.6	.5						11.4	9.2
SSW	1.0	2.0	.9	.6								4.5	6.3
SW	1.0	2.0	.2									3.2	4.4
WSW	.8	2.0	.3	.3								3.4	5.4
W	1.2	2.9	3.7	2.2	.5		.1					10.5	8.5
WNW	.4	3.2	3.3	2.3	.5	.3	.1					10.2	9.4
NW	.6	1.9	3.1	2.3	.8	.2	.1					9.0	10.0
NNW	.4	1.6	2.6	2.3	2.0	.9	.5	.1				10.3	13.4
VARBL													
CALM												8.3	
	9.5	27.2	25.5	17.4	7.0	3.7	1.3	.1				100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.7	4.2	5.3	2.4	1.4	.3	.1				16.3	13.1
NNE	.3	.4	.5	.3	.0							1.5	7.3
NE	.2	.3	.1	.1								.6	5.4
ENE	.2	.2	.1	.1								.5	5.2
E	.4	.4	.4	.1								1.3	5.9
ESE	.3	.7	.5	.1								1.6	5.9
SE	.6	1.3	1.0	.2	.1							3.2	6.3
SSE	.7	1.7	2.2	1.6	.3							6.6	8.6
S	1.2	2.9	3.3	2.5	1.2	.2						11.3	9.5
SSW	.7	1.5	1.1	.3								3.5	6.2
SW	.7	1.4	.7	.2	.0							3.0	5.7
WSW	.5	1.3	.6	.5	.1	.0						3.1	7.1
W	1.2	3.6	3.3	2.2	.4	.1	.0	.0				10.8	8.2
WNW	.7	2.4	3.0	2.8	.7	.5	.2	.0				10.2	10.6
NW	.6	1.4	3.0	3.2	1.2	.5	.2	.1				10.1	11.7
NNW	.5	1.5	2.7	2.9	1.1	.4	.2	.1				9.3	11.9
VARBL													
CALM												7.0	
	9.3	22.8	26.7	22.4	7.4	3.1	.9	.3				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 7436

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.4	3.8	6.4	3.1	1.3	.4					17.4	12.9
NNE	.5	.1	.2	.4								1.2	7.3
NE	.2	.2	.2									.7	4.7
ENE	.1	.4										.5	4.5
E	.7	.8	.7	.1	.1							2.5	6.1
ESE	.1	1.1	.1									1.3	5.2
SE	.4	.6	.6	.1								1.7	6.1
SSE	.2	1.3	1.3	2.2	.9	.2						6.3	11.3
S	.6	1.9	3.8	1.9	1.8	.2	1					10.3	10.8
SSW	.7	1.8	.8	.1								3.4	5.4
SW	.9	2.4	.5	.4								4.1	5.5
WSW	1.2	1.7	.9	.2	.1							4.1	5.9
W	.9	4.6	3.8	1.1	.4							10.8	7.2
WNW	1.3	1.5	2.4	.9	.4							6.5	7.8
NW	.7	3.1	1.9	2.5	.4	.4						8.9	8.9
NNW	.6	2.4	5.3	3.2	.6	.7						12.8	10.3
VARBL													
CALM												7.7	
	10.3	25.7	26.4	19.5	7.7	2.8	.5					100.1	8.6

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 1300-2500 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.9	3.3	4.4	1.9	1.1	.1					13.2	12.4
NNE	.1	.7	.9	.4								2.1	7.7
NE	.5	.7	.4									1.5	4.9
ENE	.4	.6	.1									1.1	4.4
E	.4	.5	.5									1.3	5.2
ESE	.1	.7		.4	.1							1.3	6.3
SE	.2	.8	.5	.5								2.0	7.5
SSE	.4	1.8	3.3	2.0	.4							7.8	9.2
S	.5	3.2	2.2	2.4	1.4	.1						9.8	9.9
SSW	.9	.7	.6									2.2	4.5
SW	1.2	1.7	.1	.4	.1							3.4	5.4
WSW	.6	1.7	.7	.2								3.2	6.2
W	.6	5.3	4.0	1.9	.4	.1						12.3	7.8
WNW	.6	2.4	2.0	2.0	.1							7.1	8.1
NW	1.1	2.1	3.2	1.7	1.2							9.2	9.1
NNW	1.3	4.0	4.3	3.4	.6	1.1	.4					15.3	10.1
VARBL													
CALM												7.3	
	9.3	28.7	26.1	19.5	6.1	2.4	.5					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 0600-0800 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	2.6	3.9	6.7	1.7	.7						16.2	11.7
NNE	.1	.8	.8	.5								2.2	7.7
NE	.1	.2	.5									.8	6.4
ENE	.1	.6	.2									.9	5.3
E	.5	.7										1.2	3.7
ESE	.1	1.1		.4								1.5	7.4
SE	.1	1.2	1.2	.7	.2							3.4	8.6
SSE	.5	1.5	2.5	2.1	.2	.4						7.2	9.8
S	.7	2.6	2.6	2.4	.4	.4						9.3	9.3
SSW	.2	1.4	.5	.2								2.4	6.3
SW	1.1	1.9	1.1	.4								4.4	5.4
WSW	.4	1.8	.6	.4	.2	.1						3.4	7.5
W	1.1	3.3	2.8	1.1	.4	.2						8.9	7.8
WNW	.7	3.7	2.7	1.5	.5							9.1	6.1
NW	.6	2.1	4.3	1.8	.7	.1						9.6	9.1
NNW	.9	3.0	3.0	2.5	.7	.9	.2					11.2	10.5
VARBL													
CALM												8.5	
	7.8	28.5	26.6	20.6	5.3	2.8	.2					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-8 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 900-1100 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	3.1	5.6	8.2	2.2	.7	.1					20.2	11.7
NNE	.1	.4	1.3	.6	.1							2.5	9.3
NE		.2	.7									.9	8.3
ENE	.2	.4	.9									1.5	6.4
E	.2	.1	.2									.5	5.2
ESE	.2	.5	.1	.2	.1							1.2	8.1
SE	.1	.9	1.1	.4	.1							2.6	8.1
SSE		.7	2.4	3.8	.2							7.1	11.6
S	.2	2.1	2.5	2.6	1.2	.5						9.1	11.2
SSW	.4	1.7	1.5	.7	.4							4.6	8.1
SW	.5	.8	1.2	.2								2.7	8.9
WSW	.1	1.1	.5	.6	.1							2.4	8.2
W	1.2	1.8	2.2	1.7	.4	.1						7.3	8.6
WNW	.5	.9	2.6	1.5	.4	.1						6.0	9.6
NW	.9	1.7	3.5	3.3	1.2	.1						10.8	10.2
NNW	.9	1.2	3.8	3.9	1.9	1.3						13.1	12.0
VARBL													
CALM												7.4	
	6.0	17.5	30.1	27.7	8.3	2.8	.1					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.4	6.1	7.9	3.7	1.7	.1					23.2	12.1
NNE	.4	.5	.6	.4	.1							1.9	8.2
NE			.8	.5								1.3	10.5
ENE	.4	.4	.4									1.1	5.4
E	.1	.2	1.1	.2								1.7	8.5
ESE	.1	.2	.1	.4								.8	9.3
SE	.1	.5	.9	.7	.2							2.5	9.9
SSE	.1	.5	1.1	3.0	1.1	.2						5.9	13.0
S	.5	2.0	2.8	3.3	1.9	.4						10.9	11.4
SSW	.4	1.4	1.1	.7	.5							4.0	8.6
SW	.5	1.1	2.0	.7	.1							4.4	7.9
WSW	.2	.6	.9	.6								2.4	8.0
W	.4	1.4	2.7	1.1	.2	.5						6.3	9.8
WNW	.4	.7	1.8	2.4	.8	.5						6.5	12.1
NW		1.4	2.8	4.1	.8	.1	.1					9.5	11.8
NNW	.8	2.7	4.0	4.3	2.1	1.1	.2					15.2	11.8
VARBL													
CALM												3.5	
	5.3	16.0	29.3	30.1	10.9	4.4	.5					100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 15.0-17.0 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	3.1	8.[illegible]	7.9	3.3	1.7	.4					24.7	12.4
NNE	.5	1.4	.9	.4	.2							3.3	7.5
NE	.2	.9	.7	.6								2.5	7.3
ENE		.2	.2	.1								.5	7.8
E	.5	.6	.8									1.9	5.1
ESE	.2	.1	.7	.4								1.4	6.3
SE		.6	.4	.9		.1						2.[illegible]	1[illegible].3
SSE	.1	.9	1.8	3.8	.8	.1						7.6	11.3
S	.6	2.4	4.1	2.5	.9	.2						1[illegible].3	9.8
SSW	.1	1.3	.9	.8	.1							3.3	5.6
SW	.5	.7	1.3	.7								3.2	7.[illegible]
WSW	.4	.5	.7	.8								2.4	6.6
W	.4	2.2	2.0	2.5	.1							7.2	9.1
WNW	.4	.7	1.7	3.1	.7	.2						6.7	11.6
NW	.6	1.2	2.6	2.2	.7	.1						7.4	10.2
NNW	.2	1.5	3.1	4.0	1.8	1.1	.2					11.9	13.[illegible]
VARBL													
CALM												3.1	
	5.0	18.4	29.9	35.7	8.7	3.5	.6					100.[illegible]	1[illegible].4

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 1800-2000 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.3	5.3	5.9	3.3	1.1						19.5	11.7
NNE	.7	1.3	1.6	.8								4.5	7.3
NE	.5	.8	.5									1.8	4.7
ENE	.8	.5	.4									1.7	4.6
E	.7	.4	.2									1.3	3.8
ESE		.7	.6									1.3	6.6
SE	.6	1.1	1.1	.5	.2							3.4	7.9
SSE	.4	1.9	3.1	2.4	.6	.5						8.7	13.3
S	.7	2.8	3.4	1.7	.2	.9						9.8	9.5
SSW	.4	.9	.8									2.1	5.8
SW	1.1	1.2	.8	.1								3.2	5.3
WSW	.8	1.1	.7	.9								3.5	7.2
W	.7	3.2	.9	1.2	.1							6.1	7.5
WNW	.5	2.8	2.0	1.8	.8							7.9	9.1
NW	.8	1.7	2.6	2.1	.6							7.8	9.3
NNW	.8	1.5	3.3	3.1	1.5	.7						11.0	11.6
VARBL													
CALM												6.5	
	10.6	24.7	27.5	23.4	7.4	3.2						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 646

USAFETAC FORM JUL 64 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS)

(CONDITION)

0100-2300 (HOURS (L S T))

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	2.2	4.4	6.7	2.1	1.2						17.4	11.6
NNE	.4	.7	.7	1.3								3.1	8.7
NE	.4	.5										.9	3.1
ENE	.1	.7										.9	4.3
E	.5	.5	.6									1.6	5.5
ESE	.5	.9	.2	.1								1.6	3.7
SE	.4	.7	.8	.4								2.2	7.1
SSE	.8	1.2	1.9	2.1	.7	.4						7.1	10.5
S	.6	2.5	1.8	3.0	.9	.5	.1					9.3	11.3
SSW	.5	1.9	1.3	.1								3.8	5.7
SW	1.3	2.2	1.1	.4	.1							5.1	5.6
WSW	.7	2.1	.8	.6	.1							4.4	6.8
W	.9	3.7	1.9	1.2								7.7	6.9
WNW	.5	2.4	2.2	1.7	.2	.5						7.5	9.4
NW	1.1	1.5	3.7	2.1	.2		.2					8.1	8.9
NNW	.8	1.8	2.6	3.9	1.1	.4	.2					10.8	11.2
VARBL													
CALM												7.7	
	10.9	25.8	24.0	22.7	5.6	2.8	.6					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 986

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 GRAND FORKS AFB ND 73-8 FEB

STATION STATION NAME YEARS MONTH

ALL WEATHER ALL

CLASS HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.4	5.1	6.7	2.6	1.2	.1					18.9	12.1
NNE	.3	.7	.9	.6	.1							2.6	7.3
NE	.2	.5	.5	.1								1.3	6.4
ENE	.3	.5	.3	.2								1.3	5.3
E	.4	.5	.5	.2	.2							1.8	9.7
ESE	.2	.7	.2	.2	.2							1.3	7.1
SE	.2	.6	.8	.5	.1	.2						2.5	8.7
SSE	.3	1.2	2.2	2.7	.6	.2						7.2	11.9
S	.5	2.4	2.9	2.5	1.1	.4	.2					9.9	10.4
SSW	.4	1.4	.9	.3	.1							3.2	6.9
SW	.9	1.5	1.1	.4	.2							3.9	6.2
WSW	.5	1.3	.7	.5	.1	.2						3.2	7.1
W	.8	3.2	2.6	1.4	.2	.1						8.3	7.9
WNW	.6	1.9	2.2	1.9	.5	.2						7.3	9.4
NW	.7	1.9	3.1	2.5	.7	.1	.2					9.2	9.7
NNW	.8	2.3	3.7	3.5	1.3	.9	.2					12.6	11.3
VARBL													
CALM												6.4	
	8.2	23.1	27.5	23.9	7.5	3.1	.4					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS)

0000-2200 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.7	2.7	3.3	2.7	1.4	.9	.3					13.2	10.5
NNE	.2	.8	1.1	.5	.8	.1						3.4	11.9
NE	.2	.3	.6	.1	.3							1.5	8.7
ENE	.3	.1	.3	.4								1.2	7.9
E	.3	1.2	.8	.5								2.8	7.2
ESE	.5	.8	.9	.1								2.3	5.8
SE	.2	2.3	1.3	.9	.2	.3						5.2	6.8
SSE	.3	1.4	2.0	1.5	.6							5.9	9.9
S	.4	2.9	3.4	1.5	1.0	.2						9.5	9.3
SSW	.5	1.7	.9	1.0								4.1	7.2
SW	1.1	1.4	1.2	.6								4.3	6.7
WSW	.9	1.3	.8	.6	.1							3.3	7.0
W	1.2	2.3	1.6	1.3	.2	.3						6.9	8.2
WNW	1.1	2.2	1.8	1.9	.1		.1	.2				7.4	9.1
NW	.9	2.2	2.8	1.6	.8	.2						8.4	9.1
NNW	1.5	2.2	3.9	1.2	1.5							10.2	9.0
VARBL													
CALM												10.5	
	11.4	25.2	26.7	16.6	7.0	2.0	.4	.2				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 2300-2500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	3.3	3.5	2.7	1.8	1.2						13.9	12.7
NNE	.6	.8	1.3	.6	.8	.1						4.2	9.9
NE	.3	.1	.3	.5	.3							1.6	9.9
ENE		.5	.3	.2								1.1	7.4
E	.2	1.3	.6	.3								2.5	6.7
ESE	.3	.6	1.5	.2								2.7	7.3
SE	.6	1.3	1.8	1.1	.1	.1						5.1	8.4
SSE	.8	.9	2.7	1.4	.5	.4						6.7	10.1
S	1.0	2.9	3.5	1.4	.6	.1						9.6	8.4
SSW	1.2	1.2	.9	.5	.1							3.9	6.6
SW	.4	1.5	.8	.6								3.3	7.3
WSW	.2	.5	.3	1.0								2.0	8.6
W	1.6	1.6	1.7	.9	.1							5.9	6.6
WNW	1.4	2.2	2.2	1.8	.4		.3					8.3	9.2
NW	.6	1.9	2.3	2.6	.8	.2						8.4	9.8
NNW	.6	2.6	2.5	1.5	1.4							8.6	9.6
VARBL													
CALM												12.4	
	11.3	23.2	26.2	17.4	7.0	2.2	.3					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 0600-0900 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	2.7	4.1	3.5	2.4	1.1						14.5	11.6
NNE		1.3	1.0	.9	.3	.1						3.5	9.6
NE	.2	.9	.4	.3	.2	.1						2.2	8.9
ENE	.2	.6	.5	.4								1.3	7.4
E	.9	.6	1.2	.5								3.2	6.7
ESE	.6	1.1	1.4	.5								3.7	7.0
SE	.4	1.2	2.4	.9	.1							4.9	8.1
SSE	.1	1.3	1.7	2.3	1.0	.1						6.1	11.7
S	.6	2.2	2.5	1.8	.4	.3						7.8	9.2
SSW	.6	1.4	1.4	.2								3.7	6.5
SW	.2	.8	.6	.9								2.5	6.7
WSW	.3	1.3	.2	.5								2.4	6.6
W	.8	1.2	2.7	.9	.2							5.7	6.1
WNW	.8	1.9	1.9	2.7	.8	.3	.1					8.5	10.3
NW	.5	2.0	3.3	1.5	.6		.1					8.2	9.2
NNW	.6	2.7	3.8	1.5	1.5		.2	.1				10.4	10.3
VARBL													
CALM												13.9	
	7.7	22.8	29.1	19.4	7.5	2.0	.4	.1				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.6	2.9	4.6	7.5	3.0	1.4	.2					21.2	11.9
NNE	.3	1.1	1.0	.6	.3	.4						3.8	10.6
NE	.3	.6	.4	.2	.2							1.8	7.9
ENE	.1	.9	.5	.2	.1							1.7	8.1
E	.6	1.2	1.1	.6								3.5	7.1
ESE	.3	.1	1.0	.3	.2							1.9	6.8
SE	.3	.6	1.8	1.4	.2	.1						4.5	10.1
SSE	.4	1.8	1.4	3.3	1.2							8.2	11.0
S	.3	1.3	2.3	4.1	1.8	.4						10.2	12.6
SSW	.4	.5	1.5	.4								2.9	7.9
SW	.4	.6	.8	.1								1.9	6.3
WSW	.1	.3	.8	.6								1.8	9.1
W	.3	1.4	2.0	1.8	.2	.1						5.9	9.3
WNW	.4	.2	1.6	3.2	.5	.4	.1					6.6	12.6
NW	.5	.9	2.0	2.5	1.0	.2						7.0	11.1
NNW	.1	1.8	2.8	3.2	1.8	.3	.4	.3				10.9	13.0
VARBL													
CALM												6.1	
	6.8	16.1	25.6	30.3	13.6	3.4	.6	.3				100.0	12.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.5	5.1	6.8	3.0	1.5	.3	.2				20.2	12.9
NNE	.3	1.4	1.8	1.2	.2	.3						5.3	9.6
NE	.5	.6	.5	.8								2.5	6.2
ENE	.3	.6	.9	.6	.2	.1						2.0	9.0
E	.3	1.1	.8	.8								2.9	7.8
ESE	.5	.4	1.7	.5		.1						3.3	8.4
SE	.4	1.4	.9	1.2	.3		.1					4.3	9.6
SSE	.4	.P	1.5	3.0	1.6	.4						7.7	12.8
S	1.0	1.5	2.3	4.1	1.7	.9						11.4	12.3
SSW	.4	.5	1.5	.5	.4	.1						3.5	9.8
SW	.1	.5	1.0	.1								1.7	7.6
WSW	.4	.6	.8	.6								2.5	7.9
W	.3	.2	2.4	2.2	1.0	.2	.1					6.3	12.4
WNW		.2	2.2	2.6	1.2	.2	.1					6.5	13.0
NW		.8	1.4	3.0	.9	.3						6.3	12.8
NNW	.5	.8	2.2	3.1	2.3	.6		.1				9.6	13.3
VARBL													
CALM												3.1	
	6.6	14.0	26.7	31.1	12.8	4.8	.6	.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.9	4.9	5.7	2.9	1.7	.1	.2				18.2	13.2
NNE	.3	1.2	2.5	1.3	.8	.1						6.1	10.1
NE	.5	.8	.5	.9	.2							2.9	8.9
ENE	.2	1.2	1.0	.9	.1							3.3	8.5
E	.2	1.7	1.6	.5								4.1	7.4
ESE	.4	1.2	.8	.5	.2							3.1	6.3
SE	.3	1.7	1.7	1.9	.1							5.8	8.7
SSE	.6	1.1	2.3	2.8	1.5	.3						8.6	11.8
S	.8	2.4	1.9	3.5	1.1	.9						10.5	11.3
SSW	.3	.4	1.1	.2	.1	.2						2.4	9.6
SW	.2	.2	1.0	.5								1.9	8.7
WSW	.4	.3	.4	.3	.2							1.7	6.3
W	.1	.8	1.1	1.7	.6	.1						4.4	11.7
WNW	.2	.6	1.6	3.0	.6	.2	.1					6.5	12.4
NW	.4	.5	1.9	4.2	1.3	.4	.1					8.9	13.0
NNW		.5	2.3	4.3	1.4	.2						8.7	12.6
VARBL													
CALM												2.8	
	5.8	16.6	26.6	32.4	11.2	4.2	.3	.2				100.2	10.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 1800-2400 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	4.7	3.9	6.7	1.0	.9	.2					17.8	11.9
NNE	.3	1.5	1.8	.9	.5	.1						5.2	9.4
NE	.1	1.5	.8	.8								3.1	7.8
ENE	.1	1.5	1.2	.4								3.2	7.1
E	1.1	1.4	1.2	.4	.1							4.2	6.2
ESE	1.0	1.9	.5	.1								3.5	4.9
SE	.8	2.9	2.4	.9	.3	.1						7.3	7.6
SSE	.8	2.2	2.9	2.9	.8							9.5	9.8
S	.6	1.9	2.6	2.0	1.1	.3						8.5	10.2
SSW	.1	.7	.8	.4	.1	.1						2.4	8.5
SW	.2	.8	1.0	.2								2.2	7.4
WSW	.1	.6	.3	.2	.1							1.4	8.5
W	.6	1.2	2.0	.8	.1		.1					4.3	8.1
WNW	.4	1.6	1.7	.8	.2	.2	.1					5.1	8.9
NW	.1	1.4	3.3	2.6	.6	.5	.1					8.7	11.3
NNW	.4	1.2	3.2	1.9	.9							7.6	9.9
VARBL													
CALM												5.5	
	8.1	26.3	29.6	21.9	5.8	2.3	.5					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.6	3.0	3.8	1.7	.8						13.1	10.8
NNE	.4	1.1	.9	1.1	.4	.1						4.0	10.0
NE	.3	.4	.3	.3	.1							1.5	7.8
ENE	.5	.8	1.1	.1	.1							2.6	7.2
E	.2	1.3	1.1	.5								3.1	7.2
ESE	.4	1.3	.9	.1								2.7	5.6
SE	.9	1.9	1.4	.9	.3	.1						5.5	7.9
SSE	.9	2.4	1.7	2.9	.6							8.5	9.3
S	.6	3.2	2.2	1.8	1.2	.4						9.5	9.8
SSW	.4	1.6	1.1	.6								3.8	7.4
SW	.5	1.9	.4	.5								3.4	5.8
WSW	.4	1.9	.6	.4	.2							3.7	7.7
W	1.5	2.5	1.3	.6	.1			.1				6.1	6.6
WNW	.6	1.9	1.9	.6	.3		.1	.1				5.6	8.7
NW	.6	2.0	2.7	1.8	.5	.4						8.2	9.6
NNW	.5	3.1	3.1	1.3	1.1	.2	.2					9.6	9.8
VARBL													
CALM												9.4	
	10.2	29.9	23.7	17.5	6.8	2.0	.3	.2				100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.5	4.1	4.9	2.2	1.2	.1	.1				16.5	11.7
NNE	.3	1.1	1.4	.9	.5	.2						4.4	10.2
NE	.3	.7	.5	.5	.2	.2						2.2	8.5
ENE	.2	.8	.7	.4	.1	.0						2.2	7.8
E	.5	1.2	1.0	.5	.0							3.3	7.2
ESE	.5	.9	1.1	.3	.1	.0						2.9	7.0
SE	.5	1.7	1.7	1.1	.2	.1	.0					5.3	8.5
SSE	.5	1.4	2.0	2.5	1.0	.2						7.6	10.8
S	.7	2.3	2.6	2.5	1.1	.4						9.6	10.5
SSW	.5	1.0	1.1	.5	.1	.1						3.3	7.8
SW	.4	1.0	.8	.5								2.7	7.2
WSW	.4	.8	.5	.6	.1							2.4	7.8
W	.8	1.4	1.9	1.3	.3	.1	.0	.0				5.8	8.8
WNW	.6	1.3	1.9	2.1	.5	.2	.1	.0				6.8	10.5
NW	.5	1.5	2.5	2.5	.8	.3	.0					8.0	10.7
NNW	.6	1.9	3.0	2.3	1.5	.2	.1	.1				9.4	11.0
VARBL													
CALM												7.6	
	8.5	21.8	26.8	23.3	8.6	2.9	.5	.2				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 7492

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	3.6	3.8	4.1	.3	.2	.2					13.[illegible]	9.5
NNE	.3	.8	.8	1.1	.1							3.1	8.9
NE	.4	1.2	1.6	.6								3.8	7.2
ENE	.1	2.0	.8	.4								3.3	6.7
E	.6	.8	1.0	.8								3.1	7.6
ESE	.6	.7	.9	.9	.1							3.3	7.7
SE	.4	1.4	1.0	.8	.3							4.[illegible]	8.2
SSE	.8	1.9	1.6	1.4	.2	.3						6.2	9.1
S	.8	2.7	3.3	2.3	.1							9.2	8.1
SSW	.3	1.9	.9		.1							3.2	5.8
SW	.9	2.[illegible]	1.3	.6								4.8	6.4
WSW	.2	1.3	.7	.2								2.9	5.8
W	1.6	2.2	1.2	.3								5.3	5.3
WNW	2.1	2.3	.7	.9	.2							6.2	6.2
NW	1.4	2.8	2.3	.9	.1							7.2	6.4
NNW	1.4	4.2	3.6	2.0	.7	.6	.1					12.6	8.9
VARBL													
CALM												8.7	
	13.3	32.2	25.0	17.3	2.3	1.1	.3					100.3	7.1

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS)

0300-0500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	3.8	4.3	3.9	.9	.6						14.3	7.7
NNE	.6	.6	.6	1.1	.1							2.9	6.8
NE	.7	.6	.4	.7								2.3	7.2
ENE	.3	.9	1.0	.3								2.5	7.2
E	.2	.7	2.2	.9								4.0	6.5
ESE	.3	.6	.7	.9								2.4	9.2
SE	.4	1.4	.9	.7	.6							4.0	8.8
SSE	.7	1.7	1.3	1.0	.3	.2						5.2	8.9
S	.7	2.4	3.0	1.0	.3							7.4	7.9
SSW	.6	1.7	.9	.3								3.4	5.8
SW	.3	1.7	1.3	.4								3.6	6.9
WSW	.6	1.3	.4	.2								2.6	5.5
W	2.2	2.3	.8	.9	.1							6.3	5.8
WNW	2.0	2.4	1.9	1.0			.1					7.4	6.5
NW	1.7	2.7	2.8	.6								7.7	6.2
NNW	1.8	4.3	3.9	3.2	.3	.1	.1					13.4	6.4
VARBL													
CALM												1.4	
	13.9	28.3	26.4	17.1	2.7	.9	.2					100.1	7.0

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 0600-0900 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	4.2	7.3	5.3	2.1	.4	.1					20.2	10.3
NNE	.9	.9	1.1	.6	.2							3.7	7.5
NE	1.3	.3	.7	.4								2.9	6.2
ENE	.4	.1	.6	.3								1.4	7.1
E	.6	1.2	1.1	1.3								4.2	7.9
ESE	.7	.4	1.1	.8	.2							3.2	8.8
SE	.6	1.6	1.1	.9								4.1	7.4
SSE	1.3	1.6	1.4	1.9	.9	.3						7.1	10.2
S	1.6	1.4	1.9	1.7	.3	.2	.1					7.2	8.7
SSW	.4	.7	.9	.9	.2							3.1	8.9
SW	.6	1.4	.8	.4	.1							3.3	6.8
WSW	.9	.7	.7	.2								2.4	6.3
W	.8	2.2	1.3	.4	.2							5.2	6.9
WNW	1.3	.8	2.3	1.1	.1		.3					5.3	9.3
NW	1.1	1.4	2.4	1.4	.1							6.6	7.8
NNW	1.7	3.4	2.9	3.2	.7	.3						11.9	9.2
VARBL													
CALM												0.3	
	13.5	22.7	27.4	21.0	5.2	1.3	.6					100.2	8.3

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 77-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.3	5.8	6.6	4.2	1.1	.7					21.7	12.9
NNE	.2	1.1	2.4	2.9	.6	.2						7.4	11.2
NE	.3	1.3	1.9	1.3	.3							5.2	9.2
ENE	.7	.4	.9	.3								2.3	6.8
E	.4	.2	1.7	1.3								4.5	9.5
ESE	.3	.4	1.7	1.1	.4							4.2	10.2
SE	.7	1.1	1.1	2.3	.3	.1	.1					5.6	11.6
SSE	.7	1.1	1.3	2.1	.8	.6						6.5	11.2
S	.9	1.4	2.1	3.3	1.1	.6	.1	.1				9.2	12.4
SSW	.3	.2	.2	1.3	.6	.3		.1				3.7	13.2
SW	.4	.3	.7	.7	.1	.1						2.3	8.5
WSW	.1	.2	1.2	.7								2.2	9.7
W	.3	1.2	1.2	1.3	.7	.2						4.5	10.7
WNW	.2	.2	.8	1.2	.1	.1	.4					3.5	12.4
NW	.4	.3	1.4	2.8	.6	.1						5.1	11.1
NNW	.8	1.3	.8	3.2	.9	.2						7.4	10.9
VARBL													
CALM												2.3	
	7.9	16.1	25.2	32.3	12.7	3.7	1.3	.2				100.2	10.8

TOTAL NUMBER OF OBSERVATIONS 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.3	4.0	6.8	5.2	1.7	.6	.1				21.3	14.1
NNE		.8	2.3	2.1	.9	.3	.1					6.6	12.1
NE	.3	.4	1.9	2.3	.7	.2						5.1	11.1
ENE	.6	.8	.7	1.2								3.2	8.5
E	.7	.6	.8	2.3								4.3	9.8
ESE	.3	.9	1.2	1.9	.6							4.9	1.7
SE	.6	.8	1.7	1.7	.7	.3						5.7	11.3
SSE	.4	.3	1.1	2.4	1.7	.2	.1					6.6	13.3
S	.4	1.6	1.1	2.9	1.2	1.4	.1					8.8	13.6
SSW	.3	.4	.3	.9	1.3	.2						3.2	13.2
SW	.6	.6	1.2	.4	.1	.1						3.0	8.6
WSW	.1	.9	.4	.6								2.0	5.3
W	.4	.1	1.7	1.9	.2	.7		.1				5.1	13.1
WNW	.1	.7	.7	2.1	.6	.2	.2					4.6	13.2
NW	.2	.7	2.2	2.6	.4	.1	.1					6.3	11.5
NNW	.8	1.3	1.4	1.9	1.3	.5	.1					7.3	11.8
VARBL													
CALM												1.8	
	6.6	13.6	22.8	33.7	13.9	6.3	1.3	.2				100.4	12.2

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.[illegible]	4.1	9.2	5.2	2.2	.1					22.3	14.1
NNE	.6	1.[illegible]	2.2	2.8	.7	.7						7.6	12.9
NE		1.0	1.6	1.7	.7	.2						4.1	11.5
ENE	.1	1.0	2.0	.6		.1						4.[illegible]	8.6
E	.5	.7	1.4	1.9								4.6	9.2
ESE	.4	.9	1.0	1.6	.3							4.2	9.5
SE	.4	1.3	2.0	2.7	.6							7.[illegible]	10.1
SSE	.1	1.7	1.8	3.0	1.1	.3						8.0	12.2
S	.3	1.0	1.2	2.2	1.4	.8						7.0	13.1
SSW	.3	.7	.8	.4	.9							3.1	11.4
SW	.2	.2	.2	.7	.2	.2						1.9	12.2
WSW	.2	.3	.7	.7	.1							2.0	9.5
W	.7	.6	1.6	2.8	.4	.4	.1					6.6	11.6
WNW	.2	.6	1.1	1.4	.4	.4	.3					4.6	13.3
NW	.6	.6	1.3	1.3	.6	.1						4.4	10.2
NNW	.2	1.7	.9	2.0	.4	.3						5.6	10.5
VARBL													
CALM												2.0	
	5.6	15.4	23.9	33.9	13.1	5.6	.6					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 0800-2000 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	3.6	5.9	8.9	3.3	.6	.4					23.4	12.[illegible]
NNE	.6	1.7	1.3	2.1	.3	.1						6.1	9.4
NE	.4	1.7	1.3	.9	.2							4.6	8.1
ENE	.8	1.2	1.6	.9								4.4	7.4
E	1.7	1.6	2.3	1.2	.3							7.1	7.4
ESE	.6	.9	1.3	1.4	.1							4.3	6.7
SE	.7	2.1	3.3	1.1	.1							7.3	7.7
SSE	.4	1.9	2.3	1.8	.4							6.9	9.1
S	1.1	1.9	2.3	1.2	.6							7.1	8.1
SSW	.1	.7	.9	.4	.2							2.3	9.9
SW	.2	1.1	.7	.2								2.1	6.5
WSW	.2	.7	.7	.4								2.0	7.7
W	.3	1.4	1.0	1.0								3.8	8.2
WNW	.2	.7	1.3	1.4	.1							3.8	9.9
NW	.6	.4	1.3	1.1	.6	.1						4.1	10.6
NNW	.4	1.2	1.1	1.3	1.1							5.2	10.5
VARBL													
CALM												5.3	
	9.1	22.6	28.8	25.6	7.4	.8	.4					100.2	8.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 1200-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.0	3.4	4.3	5.7	.4	.2	.1					16.3	9.6
NNE	.3	.7	1.8	1.4	.1							4.3	9.2
NE	.7	1.7	1.1	.3								3.8	6.3
ENE	1.2	1.9	1.0	.3								4.3	5.4
E	.8	1.7	1.7	1.0	.3							5.4	8.2
ESE	.7	1.6	1.6	.6								4.3	6.7
SE	.4	2.1	2.8	1.0	.1	.1						6.6	7.9
SSE	.4	2.6	2.3	1.3	.6	.1						7.3	8.7
S	.3	3.3	1.4	1.0	.4							6.6	7.6
SSW	.6	1.1	.9	.2								2.3	6.5
SW	.4	1.4	1.2									3.1	6.2
WSW	.2	.7	.4									1.3	5.8
W	1.7	2.1	.9	.3	.1							5.1	5.4
WNW	.8	.9	1.1	.8	.1	.1						3.8	8.2
NW	1.1	2.9	1.6	1.1	.1							6.3	6.7
NNW	.8	2.3	3.6	1.9	.4	.2						9.2	9.1
VARBL													
CALM												9.1	
	12.4	30.1	27.7	17.0	2.8	.9	.1					100.1	7.1

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	3.1	4.9	6.2	2.7	.9	.3	.0				19.1	11.8
NNE	.4	.9	1.6	1.8	.4	.1	.0					5.2	10.1
NE	.5	1.1	1.3	1.0	.2	.1						4.1	6.7
ENE	.5	1.1	1.1	.6		.0						3.2	7.2
E	.7	1.0	1.5	1.3	.1							4.6	8.3
ESE	.5	.8	1.2	1.1	.2							3.8	9.0
SE	.5	1.5	1.7	1.4	.3	.1	.0					5.6	9.0
SSE	.6	1.6	1.7	1.9	.8	.3	.0					6.8	10.4
S	.8	1.9	2.1	2.0	.7	.4	.0	.0				7.8	10.0
SSW	.4	1.0	.7	.6	.4	.1		.0				3.1	9.2
SW	.5	1.2	.9	.4	.1	.1						3.1	7.4
WSW	.3	.8	.7	.4	.0							2.2	7.2
W	1.0	1.4	1.2	1.1	.2	.2	.0	.0				5.2	6.4
WNW	.8	1.2	1.2	1.3	.2	.1	.2					4.9	9.4
NW	.9	1.5	1.9	1.5	.3	.1	.0					6.2	8.5
NNW	.9	2.5	2.3	2.3	.7	.3	.0					9.1	9.6
VARBL													
CALM												0.0	
	10.2	22.6	25.9	24.7	7.3	2.6	.6	.1				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS)

0000-0200 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	3.7	3.1	2.3	.6	.1						11.4	6.5
NNE	.1	1.5	.5	.2								2.4	6.4
NE	.8	.6	.8	.3								2.5	6.5
ENE	.5	1.0	1.3	.4								3.2	6.7
E	1.0	1.9	1.1	.5								4.5	6.3
ESE	.2	1.2	.8	.4								2.5	7.0
SE	.3	2.2	1.6	1.1								5.2	7.6
SSE	1.0	2.5	3.8	2.6	.1							9.9	6.2
S	2.2	3.3	2.0	.6	.2							8.4	6.1
SSW	.5	1.6	1.1	.1								3.3	5.7
SW	1.2	1.6	.9	.9								4.5	6.4
WSW	2.0	1.3	.8	.2								4.3	4.6
W	1.9	2.5	1.4	.2	.1							6.1	5.2
WNW	1.2	1.5	.9	1.5								5.1	7.2
NW	1.6	1.9	2.2	1.1	.2							7.2	7.2
NNW	1.1	3.1	2.2	1.6	.4							8.4	7.5
VARBL													
CALM												11.7	
	16.8	31.4	24.2	14.1	1.7	.1						100.3	6.1

TOTAL NUMBER OF OBSERVATIONS 935

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 0300-0500 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.9	3.3	2.9	.8	.1						11.2	9.1
NNE	.9	1.1	.4	.1								2.5	4.8
NE	.3	1.3	1.4	.4								3.1	6.8
ENE	.4	.9	.4									1.7	4.9
E	.9	1.3	1.1	.4	.1							3.4	6.9
ESE	.6	.6	.9	.5								2.7	7.2
SE	.8	2.1	2.3	.8	.1							5.9	7.1
SSE	1.0	2.2	2.0	1.1	.2							6.5	7.2
S	1.7	3.3	3.7	.6	.1							9.5	6.4
SSW	.8	1.3	1.2	.3								3.2	6.6
SW	1.2	1.7	1.3	.9								5.1	6.7
WSW	1.6	1.0	.6									3.2	4.2
W	1.3	2.6	1.1	.6								5.6	5.9
WNW	1.1	2.8	1.2	.9								5.9	6.2
NW	2.4	3.4	2.4	1.2	.2							9.6	6.6
NNW	1.3	3.3	2.7	.6	.3							8.3	6.9
VARBL													
CALM												12.7	
	17.3	30.8	25.9	11.4	1.8	.1						100.1	5.9

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 0600-0900 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	3.2	4.7	5.5	.6							15.1	9.5
NNE	1.0	1.1	1.9	.6	.1							4.7	7.1
NE	.4	.8	1.4	.5	.1							3.2	8.0
ENE	.6	.9	1.2	.1								2.8	6.1
E	.8	1.0	1.2	.3								3.2	6.5
ESE	.3	1.1	1.3	.9		.1						3.7	8.6
SE	.9	2.4	1.7	1.1	.1							6.1	7.1
SSE	.5	2.4	2.2	2.3	.3							7.6	8.8
S	1.2	3.2	3.1	2.3	.5							10.3	8.1
SSW	.6	.9	1.0	1.0	.1							3.5	6.5
SW	.6	.8	.8	.6	.2							3.0	7.8
WSW	.8	.9	.2	.5								2.4	6.0
W	1.0	1.4	1.6	1.3	.5							5.8	8.4
WNW	1.1	1.0	1.4	1.0	.1							4.5	7.4
NW	.6	2.5	1.4	2.2	.2							6.9	8.6
NNW	1.1	2.2	2.8	1.9	.4							8.4	8.2
VARBL													
CALM												3.7	
	12.5	25.4	27.8	22.0	3.4	.1						100.2	7.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	1.4	4.5	7.3	1.5	.2						15.9	11.4
NNE	.9	1.2	1.6	1.7								5.4	7.9
NE	.5	1.1	1.5	1.1	.1							4.3	9.2
ENE	.6	.9	.9	.4	.1							2.9	7.5
E	.4	1.6	2.0	.9								4.9	7.3
ESE	.8	1.4	1.5	.9								4.5	7.2
SE	.5	1.0	1.4	1.5	.5	.2						5.2	10.2
SSE	.2	2.3	2.6	3.4	1.3	.2						10.0	11.0
S	.3	1.7	4.1	4.2	1.1	.2						11.0	11.2
SSW	.2	.6	.4	.9	1.1							3.2	12.5
SW	.3	.8	.9	1.7	.6							4.3	10.8
WSW	.4	.9	.9	.5	.2							2.9	8.2
W	.4	.4	1.0	1.1	.6	.1						3.7	11.0
WNW	.4	.5	.8	2.7	.4							4.8	11.3
NW	.1	.8	1.1	2.5	.9							5.3	12.3
NNW	1.4	1.4	2.2	2.8	.3	.2						8.3	9.4
VARBL													
CALM												2.8	
	8.6	17.8	27.2	33.5	8.8	1.2						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.4	4.1	6.7	2.2	.4						15.6	12.2
NNE	.1	.8	1.9	1.3	.4							4.5	10.0
NE	.5	1.0	1.7	.8	.1							4.1	7.9
ENE	.4	1.3	2.0	1.1	.1							4.9	8.3
E	.3	1.1	2.0	1.3	.1							4.8	8.8
ESE	.1	.9	1.0	.9								2.8	8.5
SE	.4	1.1	3.0	2.4	.3	.1						7.3	9.7
SSE	.3	1.8	3.8	2.8	1.3	.9						10.9	11.7
S	.5	2.0	1.8	3.9	2.5	1.3						12.0	13.2
SSW	.4	.1	.5	.5	1.2							2.8	12.7
SW	.9	.6	1.0	1.3	.2							4.0	9.1
WSW	.3	.2	1.0	1.1	.2							2.8	10.3
W	.3	.3	1.2	1.9	.6	.5						4.9	13.2
WNW	.4	.4	.5	1.4	.3	.1						3.2	11.0
NW	.3	.6	1.3	2.2	.9							5.3	11.7
NNW	.1	.5	1.9	2.9	1.3	.2						7.0	12.6
VARBL													
CALM												3.0	
	6.5	14.2	28.8	32.3	11.7	3.5						100.0	10.8

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

ALL WEATHER CLASS

CONDITION

1500-1700 HOURS (L S T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	2.7	3.2	5.2	2.3	1.2						14.9	12.3
NNE	.2	.9	2.6	1.1	.2							4.8	9.3
NE	.6	.8	2.4	1.0								4.7	8.0
ENE	.2	1.2	.6	1.0								3.0	6.3
E	.6	1.3	2.4	1.7	.3							6.3	8.6
ESE	.2	.8	2.0	.2								3.2	7.6
SE	.3	1.1	2.7	2.3	.4	.1						6.9	10.2
SSE		1.4	1.9	2.9	1.3	.4						8.0	12.1
S	.4	1.7	2.9	3.2	2.0	1.1						11.4	12.5
SSW	.6	.2	1.1	1.0	.5	.2						3.7	11.1
SW		.9	1.0	1.2	.2							3.2	10.1
WSW	.9	.2	1.6	1.4								4.1	8.7
W	.6	1.3	1.3	1.3	1.0							5.5	10.1
WNW	.4	.3	1.0	1.8	.6	.1						4.3	11.7
NW	.1	.8	1.9	2.6	.4							5.8	10.9
NNW	.1	.8	2.4	2.6	1.3	.2						7.3	12.3
VARBL													
CALM												2.9	
	5.8	16.0	31.0	33.3	13.6	3.3						100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS)

1200-2200 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	3.5	4.8	4.7	3.3	.2						16.1	12.9
NNE	.2	1.5	3.1	.9								5.7	8.1
NE	.2	1.3	1.3	.9								3.7	7.9
ENE	.3	1.5	1.5	.4								3.8	7.1
E	.6	2.0	4.1	.8	.1							7.6	7.8
ESE	.3	1.6	1.3	.8	.1							4.1	7.6
SE	.5	2.2	3.5	1.6	.1							8.7	8.3
SSE	.9	1.3	2.4	2.7	1.7							9.2	10.3
S	.2	2.5	2.6	2.5	.5	.2						8.5	9.8
SSW	.4	1.3	.6	1.2	.2							3.8	8.8
SW	.2	.6	.6	.6	.1							2.3	6.6
WSW	.5	.5	.3		.2							1.6	6.7
W	.5	1.1	.9	.9	.4	.1						3.9	9.5
WNW	.8	.9	1.3	1.1	.2							4.2	8.4
NW	.3	1.4	2.0	1.0	.5							5.3	9.5
NNW	.5	1.6	1.8	1.6	.5	.2	.1					6.5	10.5
VARBL													
CALM												5.2	
	8.0	24.8	32.3	21.5	7.4	.8	.1					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS)

(CONDITION)

01.0-2300 (HOURS (L.S.T.))

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.2	3.?	4.6	3.1	1.5	.1						14.7	9.1
NNE	.6	1.9	1.5	.3								4.4	6.6
NE	.3	1.5	.8	.3								2.9	6.3
ENE	.6	1.8	1.4	.3								4.2	6.2
E	1.0	3.3	2.3	.9								7.4	6.4
ESE	.8	1.4	2.4	.2								4.7	6.7
SE	.5	2.2	3.2	1.9	.1							8.?	8.4
SSE	.6	1.8	2.5	2.0	.2							7.2	8.5
S	1.0	3.8	2.3	.3	.2							7.5	6.4
SSW	.9	1.4	.6	.5	.1							3.5	6.8
SW	1.1	1.6	.6	.4								3.8	5.6
WSW	.1	1.4	.2	.4								2.2	6.7
W	2.5	1.4	.9	.6								5.4	5.1
WNW	.8	.5	1.9	.5								3.7	7.6
NW	.4	1.3	1.6	1.2								4.5	6.1
NNW	1.1	1.6	1.9	.9	.3	.1						5.9	7.8
VARBL													
CALM												1?.?	
	14.4	33.2	28.6	14.1	2.5	.2						100.1	6.6

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC FORM 0-8-5 (OL A) JUL 64 ALL PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.9	4.1	4.7	1.6	.3						14.5	12.5
NNE	.5	1.2	1.7	.8	.1							4.3	7.8
NE	.5	1.3	1.4	.7	.2							3.6	7.6
ENE	.5	1.2	1.3	.5	.2							3.7	7.1
E	.7	1.3	2.0	.8	.1							5.3	7.4
ESE	.4	1.1	1.4	.6	.2	.2						3.9	7.5
SE	.5	1.7	2.4	1.6	.2	.1						6.6	8.6
SSE	.6	1.9	2.6	2.5	.7	.2						8.5	9.9
S	.9	2.7	2.6	3.2	.9	.3						9.9	9.6
SSW	.6	.9	.8	.7	.4	.2						3.4	9.2
SW	.7	1.1	.9	1.0	.2							3.8	8.2
WSW	.8	.8	.7	.5	.1							2.9	6.8
W	1.1	1.4	1.2	1.3	.4	.1						5.1	8.3
WNW	.6	1.3	1.1	1.4	.2	.2						4.5	6.7
NW	.7	1.6	1.7	1.7	.4							6.2	9.1
NNW	.9	1.8	2.2	1.9	.6	.1	.2					7.5	9.3
VARBL													
CALM												7.1	
	11.2	23.8	28.2	22.4	6.3	1.2	.3					100.2	8.2

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-92 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	3.6	2.7	.7	.3							8.2	7.2
NNE	.4	.7	.8	.6	.1							2.6	8.2
NE	.2	.2	.4	.1								1.0	6.3
ENE	.3	.4	.4	.1								1.3	6.3
E	.6	1.4	.7									2.7	4.9
ESE		1.7	.7	.8								3.1	7.6
SE	.7	1.4	1.7	.4	.1							4.3	7.1
SSE	.6	1.9	3.8	1.8								8.2	8.1
S	1.9	3.6	1.8	2.1	.4							9.8	7.4
SSW	1.4	1.8	.6	.8	.2							4.8	6.4
SW	3.3	3.2	2.8	.4								9.4	5.2
WSW	1.3	2.9	1.0	.3								5.6	5.3
W	2.7	4.9	1.7	1.1	.1							10.3	5.6
WNW	1.4	2.6	1.4	.3			.1					5.7	5.6
NW	1.4	2.2	1.4	.6								5.7	6.0
NNW	1.2	2.1	1.9	.8	.2							6.2	6.9
VARBL													
CALM												11.5	
	18.2	34.8	22.9	11.9	1.6		.1					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 933

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-8 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 0700-0800 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	3.2	3.0	2.2	.2							9.3	6.1
NNE	.1	.8	.8	.3								2.2	7.6
NE	.4	.3	.3									1.1	5.2
ENE	.2	.3	.1									.7	4.7
E	1.3	.6	.4									2.3	4.3
ESE	1.0	.6	.4	.2								2.4	5.2
SE	.7	2.2	1.2	1.2								5.3	7.3
SSE	.8	1.8	2.2	1.2	.1							6.1	6.1
S	1.6	2.2	2.1	2.1	.3							8.2	7.6
SSW	1.3	2.2	1.2	.3	.2							5.2	5.2
SW	1.6	3.3	1.6	.3	.1							6.9	5.7
WSW	1.1	1.9	1.2	.2								4.2	5.3
W	1.7	4.7	3.4	.8								10.5	6.4
WNW	1.4	2.2	2.4	1.0								7.1	7.2
NW	1.3	3.1	1.3	.2	.1							6.1	5.7
NNW	1.3	3.2	1.9	.4	.1							6.9	6.1
VARBL													
CALM												14.3	
	16.4	34.2	23.6	12.4	1.2							128.2	5.7

TOTAL NUMBER OF OBSERVATIONS 522

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 0600-0800 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.3	5.4	3.2	.3							11.6	9.2
NNE	.4	.2	1.2	.4								2.2	7.6
NE	.2	.3	.8	.2	.1							1.7	7.8
ENE	.3	.3	.3	.3								1.3	7.4
E		.5	.7	.3								1.8	7.7
ESE	.4	.7	.9	1.1								3.1	8.8
SE	.7	2.1	1.6	.6	.1							5.3	6.6
SSE	.7	1.9	3.2	1.8	.3							7.9	6.6
S	.9	2.3	3.6	2.1	.3							9.2	6.6
SSW	.2	1.1	1.8	.2	.4							3.8	8.4
SW	.8	1.2	1.3	.4	.3	.2						4.3	8.4
WSW	.7	.9	1.8	.6		.1						4.2	7.4
W	2.3	3.3	3.2	1.6	.1							9.9	6.9
WNW	.6	1.2	3.3	1.6	.3	.1						7.1	9.1
NW	.8	2.2	3.0	.8	.3							7.1	7.7
NNW	.9	3.2	3.2	1.7	.1	.1						9.2	7.8
VARBL													
CALM												9.9	
	12.2	23.4	35.3	16.9	2.9	.6						100.3	7.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 1200-1800 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.1	4.4	4.7	1.1	.2						13.5	10.2
NNE	.8	1.3	2.7	1.7								6.5	8.3
NE	.2	1.3	1.2	.4								3.2	7.2
ENE	.2	.3	1.1	.1								1.8	7.7
E	.8	.3	1.2	.9								3.2	8.2
ESE	.3	1.3	1.1	.7	.1							3.2	8.1
SE	.8	.8	1.1	1.0	.2							3.9	8.5
SSE	.4	1.3	1.4	3.1	.8							7.1	10.7
S	.8	.9	3.3	5.1	1.3	.1						11.3	11.4
SSW	.4	.6	.7	1.3	.7	.1						3.8	11.3
SW	.6	.8	1.8	1.3	.3	.1						4.8	9.4
WSW	.2	.4	1.2	.7	.2	.2						2.9	10.6
W	.3	1.9	2.6	2.3	.8							7.9	9.8
WNW	.4	1.8	1.9	2.3	.2							6.7	9.3
NW	.3	1.4	2.9	2.9	.1	.2						7.9	9.8
NNW	.3	1.2	3.0	3.7	.6	.1						8.9	11.2
VARBL													
CALM												3.9	
	7.7	17.6	31.7	31.9	6.1	1.1						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.4	4.9	4.8	1.0	.1						13.2	10.5
NNE	.7	.8	1.3	1.6								4.3	8.5
NE	.3	.9	1.9	.4								3.6	7.6
ENE	.6	.8	1.9									3.2	6.7
E	.4	.7	1.4	.1								2.7	7.5
ESE	.3	1.0	.9	.1								2.3	8.0
SE	.2	.9	2.4	1.1	.3							5.0	9.4
SSE	.4	1.9	1.7	3.3	1.7							9.0	11.4
S	.2	.8	1.9	4.0	2.1	.7	.1					9.8	13.8
SSW	.3	.3	.3	1.2	.1	.2						2.5	11.3
SW	.1	.8	.8	1.1	.1	.2						3.1	10.6
WSW	.3	1.4	1.2	1.8	.1							4.9	9.3
W	.8	2.1	2.2	3.2	1.3	.1						9.8	10.7
WNW	.1	.8	2.3	2.3	.7	.3						6.6	11.9
NW	.4	1.3	2.2	3.1	1.3	.1						6.6	11.2
NNW	.6	1.1	3.7	2.7	.7							8.7	10.2
VARBL													
CALM												2.7	
	6.9	17.0	31.1	30.9	9.5	1.8	.1					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.7	5.4	5.4	.9	.3						14.5	10.6
NNE	.6	.8	2.2	1.8		.1						5.4	9.3
NE	.3	.8	1.7	.6								3.3	7.8
ENE	1.1	1.0	1.3	.6								4.0	8.7
E	.3	.4	.8									1.5	6.5
ESE	.3	.9	.8	.4								2.4	7.4
SE	.4	1.1	1.2	1.2	.1							4.1	8.7
SSE	.4	.8	1.8	3.8	1.8	.4						9.0	12.7
S	.6	.4	1.4	4.4	2.1	.7						9.7	13.7
SSW	.3	.8	1.0	1.1	.3	.3						3.9	11.9
SW	.3	.7	1.3	1.1	.3	.1						3.9	10.3
WSW	.6	.7	1.1	1.2	.4	.1						4.1	10.2
W	.6	1.4	2.2	2.1	.4	.2						7.0	10.1
WNW	.4	.4	1.7	2.3	.8							5.7	11.4
NW	.1	1.1	3.4	2.6	1.0	.2						8.4	11.2
NNW	.3	1.4	3.9	3.2	.8	.1						9.8	10.4
VARBL													
CALM												3.1	
	7.6	14.4	31.3	31.9	9.0	2.7						100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 1600-2200 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.2	5.6	3.8	.6	.1						12.9	9.8
NNE	.8	2.4	3.2	1.3	.4							8.1	8.1
NE	.3	1.3	1.1	.4		.1						3.3	7.5
ENE	.9	1.4	.8	.1								3.2	5.2
E	1.3	1.9	1.2	.3								4.8	5.9
ESE	.9	1.1	1.2	.3								3.3	6.1
SE	.4	1.4	4.1	.9	.1							7.1	8.2
SSE	1.2	.9	2.1	3.1	.3	.1						7.6	10.2
S	.6	2.3	2.2	3.4	.9	.2						9.7	10.4
SSW	.6	.9	.9	.6								2.9	7.3
SW	.4	1.2	.7	.4	.3	.1						3.2	8.9
WSW	.6	1.1	1.1	.2								3.2	6.1
W	.7	2.0	2.1	.9	.3	.1						6.1	8.1
WNW	.3	1.3	1.7	1.3	.3	.1						5.6	8.8
NW	.3	1.2	1.7	1.0	.2							4.4	8.6
NNW	1.1	2.2	1.2	3.0	.6		.2					8.7	10.2
VARBL													
CALM												6.2	
	11.4	25.1	30.4	21.2	4.4	.9	.2					100.2	8.1

TOTAL NUMBER OF OBSERVATIONS 522

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 21-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	3.6	4.1	1.1	.2	.1						11.2	7.1
NNE	1.0	1.4	2.1	.7								5.2	6.9
NE	.3	.7	1.0	.1								2.1	6.6
ENE	.3	1.3	.1									1.8	4.4
E	1.4	1.8	.7	.1								4.0	4.7
ESE	.6	1.6	1.0	.2	.1							3.4	6.5
SE	1.0	2.3	2.6	1.0								6.9	7.1
SSE	.7	2.3	2.7	.6	.2							6.4	7.5
S	1.4	3.4	2.9	1.8	.2							9.8	7.4
SSW	1.6	3.6	.7	.6	.1							6.4	5.5
SW	1.1	2.2	1.1	.4								4.9	6.0
WSW	.8	2.1	.8	.4								4.1	6.0
W	1.3	4.1	.8	.3	.1							6.7	5.5
WNW	1.0	1.4	1.0	.3	.4							4.2	7.2
NW	.9	1.1	1.1	.1	.2	.2						3.7	7.5
NNW	.9	2.1	1.6	1.4	.2							6.2	7.8
VARBL													
CALM												13.1	
	16.2	35.1	24.1	9.2	1.9	.3						100.2	5.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.4	4.4	3.2	.6	.1						11.5	9.3
NNE	.6	1.1	1.8	1.0	.1	.0						4.6	8.1
NE	.3	.8	1.1	.3	.0	.0						2.5	7.2
ENE	.5	.8	.6	.2								2.2	6.2
E	.7	1.0	.9	.2								2.8	6.1
ESE	.5	1.1	.8	.5	.0							2.9	7.0
SE	.6	1.5	2.0	.9	.1							5.2	7.8
SSE	.6	1.6	2.4	2.3	.7	.1						7.6	9.8
S	1.0	2.1	2.4	3.1	.9	.2	.0					9.7	10.1
SSW	.8	1.5	.9	.8	.3	.1						4.3	7.8
SW	1.0	1.7	1.3	.7	.2	.1						4.9	7.5
WSW	.8	1.4	1.2	.7	.1	.1						4.2	7.4
W	1.3	3.0	2.3	1.5	.4	.1						8.5	7.8
WNW	.8	1.5	2.0	1.4	.3	.1	.0					6.1	8.9
NW	.7	1.7	2.1	1.4	.4	.1						6.5	8.8
NNW	.8	2.1	2.5	2.1	.4	.0	.0					8.1	9.0
VARBL													
CALM												8.1	
	11.9	25.2	28.8	21.4	4.6	.9	.1					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 000-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	2.5	1.4	.8	.2							6.2	6.6
NNE	.5	.6	.3									1.5	4.7
NE	.4	.4	.2									1.1	4.2
ENE	.6	.5	.1	.1								1.4	4.1
E	1.2	1.2	.5	.2								3.1	5.2
ESE	.4	1.3	.2	.1	.1	.1						2.3	6.7
SE	.8	2.3	1.3	.6	.1							5.1	6.6
SSE	1.5	2.9	2.5	.4	.1							7.4	6.2
S	1.7	3.8	4.4	1.5	.1							11.5	7.2
SSW	1.7	2.9	.6	.2								5.5	4.7
SW	1.8	3.4	.4	.2								5.9	4.6
WSW	3.3	1.9	.2									5.5	3.2
W	3.1	4.1	1.3	.1								8.6	4.5
WNW	2.2	2.2	.4	.6								5.4	5.1
NW	1.9	3.0	1.1	1.1	.1	.1						7.3	6.3
NNW	1.8	1.9	1.4	.3	.1							5.6	5.4
VARBL													
CALM												16.7	
	24.5	34.9	16.5	6.3	.9	.2						100.2	4.6

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) .300-2500 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.0	1.8	1.1								6.2	6.8
NNE	.2	.8	.2	.3								1.5	6.7
NE	.1	.5	.1									.3	4.9
ENE	.3	.9	.4									1.6	5.1
E	.5	.6		.1	.2							1.5	6.3
ESE	.8	1.3	.4	.2								2.7	5.5
SE	.4	2.3	.9	.4								4.0	6.1
SSE	2.4	2.5	2.6	.9								8.3	6.1
S	1.7	4.6	4.2	1.3	.1							11.9	6.7
SSW	1.4	2.5	.8									4.6	4.6
SW	3.3	2.2	.6	.1								6.2	3.9
WSW	2.4	2.9	.8									6.0	4.1
W	3.4	4.0	1.2									8.6	4.2
WNW	2.6	2.9	1.6	.2	.1							7.4	5.1
NW	1.6	3.1	1.1	.4	.3							6.5	6.1
NNW	1.4	3.2	1.3	.1								6.0	5.2
VARBL													
CALM												15.3	
	23.9	36.2	18.0	5.2	.8							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC FORM JUL 64 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 06-20 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	4.0	3.0	2.2								1.3	7.3
NNE	.4	1.[illegible]	1.0	.1								.2	6.4
NE	.1	1.[illegible]	.2									1.3	5.5
ENE	.3	.6	.1									1.1	4.8
E	.4	.5	.5									1.5	5.3
ESE	.2	.5	1.1	.3		.1						2.4	6.3
SE	.5	2.0	1.4	.6								4.6	6.6
SSE	1.0	2.2	3.8	1.4	.2							8.5	8.1
S	1.8	3.9	4.3	2.3	.1							12.4	7.4
SSW	1.0	2.4	1.0	.3								4.6	5.6
SW	2.3	2.3	.6	.2								5.4	4.4
WSW	1.4	1.8	.4	.2								3.7	4.7
W	3.3	3.1	2.2	.4	.1	.1						9.2	5.5
WNW	1.3	2.3	2.4	.3								6.2	6.1
NW	1.2	1.4	2.2	1.2								5.9	7.2
NNW	2.3	3.3	2.9	.9								9.4	6.1
VARBL													
CALM												1.9	
	13.7	32.4	27.3	12.4	.4	.2						100.3	5.8

TOTAL NUMBER OF OBSERVATIONS 933

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 0900-1200 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.5	4.2	2.8	.3							10.9	9.7
NNE	1.4	1.9	2.7	.6								6.6	6.6
NE	1.4	1.5	1.3									3.7	5.1
ENE	.2	.8	.5	.2								1.7	6.4
E	.9	1.0	.9	.1								2.9	6.2
ESE	.3	.9	1.2	.1								2.5	6.7
SE	.5	1.3	2.5	1.3	.4							5.7	9.1
SSE	.5	2.0	2.7	2.7	1.0							8.9	10.1
S	1.1	2.8	2.8	4.0	.9							11.5	9.6
SSW	.4	1.3	2.5	1.0	.2	.1						5.2	8.9
SW	.2	1.0	1.6	.8	.2							3.8	8.5
WSW	.4	1.7	1.5	.5	.1							4.3	7.3
W	.3	1.5	2.6	1.5	.3							6.3	8.5
WNW	.5	1.6	2.3	1.9	.1							6.2	8.8
NW	1.0	1.4	2.8	1.8	.4							7.4	8.6
NNW	.6	2.7	2.7	1.7	.1							7.8	8.3
VARBL													
CALM												4.4	
	11.3	25.3	34.1	21.1	4.1	.1						100.2	8.2

TOTAL NUMBER OF OBSERVATIONS 432

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T))

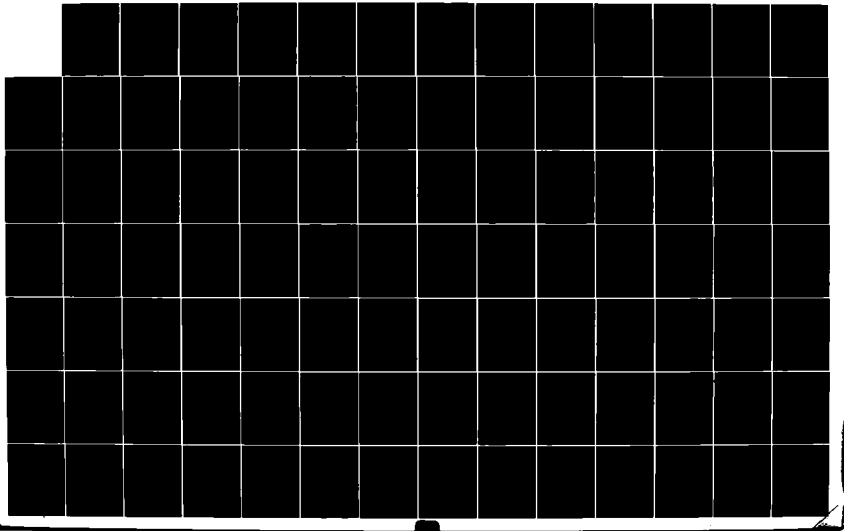
(CONDITION)

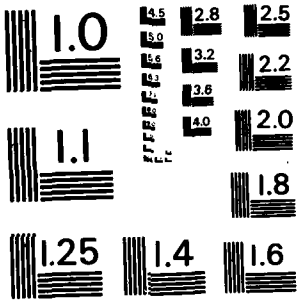
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.7	5.4	4.3								13.7	6.9
NNE	.6	1.3	1.7	.3								4.0	7.2
NE	.4	1.2	1.2	.1								2.9	6.2
ENE	.3	1.8	.5	.1								2.8	5.5
E	.3	1.1	1.1	.3								2.8	6.7
ESE	.3	.9	1.4	.6								3.2	6.1
SE	.9	1.5	1.3	1.7	.4	.1						5.9	9.3
SSE	.3	1.5	2.9	2.9	1.7							9.4	11.5
S	1.0	1.6	2.8	3.8	1.6							10.8	10.5
SSW	.4	1.2	1.7	2.3	.1							5.7	9.6
SW	.4	.6	1.9	1.0	.1							4.1	8.3
WSW	.5	.6	1.2	.5	.1							3.0	7.9
W	1.1	1.5	1.2	2.5	1.1	.1						7.4	10.2
WNW	.4	1.6	1.5	3.3	.6	.1						7.6	10.7
NW	.3	1.7	2.3	1.4	.8	.1						6.5	9.2
NNW	.5	1.9	3.3	1.7								7.5	6.6
VARBL													
CALM												2.8	
	9.4	22.8	31.2	26.9	6.6	.4						100.1	8.2

TOTAL NUMBER OF OBSERVATIONS 932

AD A131 893 GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83

UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	3.7	5.2	3.1	.5							13.5	8.6
NNE	.2	1.3	1.7	.5	.1							3.9	8.2
NE	.3	.9	2.0	.1								3.3	7.5
ENE	.3	1.2	.4									1.9	5.3
E	.3	1.0	1.4	.1								2.8	6.3
ESE	.8	1.5	2.0	.5								4.8	6.9
SE	.6	1.1	1.7	1.7								5.2	8.7
SSE	.6	1.0	2.5	2.8	1.7	.3						8.9	11.8
S	.2	2.3	4.2	4.0	1.2	.3						12.2	11.0
SSW	.4	1.5	1.8	.6	.1							4.5	7.7
SW	.5	.8	.6	.4	.1							2.5	7.7
WSW	.8	.3	.5	.4	.3							2.4	8.6
W	.8	1.2	1.3	1.7	1.0	.2						6.1	10.6
WNW	.3	.9	2.4	2.6	.9							7.0	11.2
NW	.8	1.4	3.2	2.3	.8							8.4	9.9
NNW	.5	2.4	2.9	3.1	.1							9.0	9.2
VARBL													
CALM												3.5	
	8.6	22.2	34.0	24.1	6.8	.9						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 1800-2000 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	4.1	5.5	2.4	.4							14.3	7.7
NNE	1.1	1.5	2.5	.8								5.8	7.0
NE	.8	1.9	1.1	.1								3.9	5.5
ENE	1.0	1.5	.6	.1								3.2	4.9
E	.9	2.0	.3	.4								3.7	5.4
ESE	.4	2.5	2.2	.5								5.6	6.8
SE	.5	1.7	1.8	1.3	.3							5.7	8.5
SSE	1.2	1.5	5.3	1.6	.6							10.2	8.8
S	1.0	1.8	4.4	1.9	.4							9.5	8.8
SSW	.5	1.1	1.0									2.6	5.5
SW	.6	1.1	.4									2.2	4.6
WSW	.5	.5	.3	.2	.1							1.7	6.6
W	1.5	2.0	1.1	1.1	.4	.2						6.3	7.8
WNW	.8	1.2	1.8	1.4								5.2	8.2
NW	.6	1.3	1.4	.9	.1							4.3	7.7
NNW	1.5	3.7	2.0	1.4	.5							9.1	7.2
VARBL													
CALM												6.7	
	14.8	29.5	31.7	14.1	3.0	.2						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	4.7	1.9	.8	.3							10.3	5.8
NNE	1.1	1.2	.9									3.1	5.0
NE	.2	1.3	.4	.1								2.0	5.7
ENE	1.0	1.8	.2									3.0	4.0
E	.5	2.0	1.0	.2								3.8	5.5
ESE	.8	2.2	1.1	.1	.2							4.3	6.2
SE	.8	2.8	1.5	1.1								6.1	6.7
SSE	2.0	2.8	2.9	1.4								9.1	6.9
S	2.3	4.0	2.5	1.5	.1							10.3	6.5
SSW	1.3	2.0	.8	.1								4.2	4.9
SW	1.2	1.3	.6	.2								3.3	5.2
WSW	1.6	1.6	.4		.1							3.8	4.2
W	3.2	3.0	.6	.2	.1	.1						7.3	4.6
WNW	2.3	1.3	.8	.4	.1							4.8	5.1
NW	1.5	1.7	.9	.4	.1							4.6	5.6
NNW	2.2	2.2	1.2	.3	.2							6.0	5.7
VARBL													
CALM												13.8	
	24.4	35.9	17.6	6.9	1.3	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	3.3	3.5	2.2	.2							10.5	7.7
NNE	.7	1.2	1.4	.3	.0							3.6	6.7
NE	.5	1.1	.8	.1								2.4	5.8
ENE	.5	1.1	.4	.1								2.1	5.0
E	.6	1.2	.7	.2	.0							2.7	5.8
ESE	.5	1.4	1.2	.3	.0	.0						3.5	6.9
SE	.6	1.8	1.5	1.1	.2	.0						5.3	7.8
SSE	1.2	2.0	3.1	1.8	.7	.0						8.8	8.8
S	1.3	3.1	3.7	2.5	.6	.0						11.3	8.5
SSW	.9	1.8	1.3	.6	.1	.0						4.6	6.6
SW	1.3	1.6	.9	.4	.1							4.2	5.6
WSW	1.4	1.4	.7	.2	.1							3.8	5.3
W	2.2	2.6	1.4	.9	.4	.1						7.6	6.7
WNW	1.3	1.7	1.6	1.4	.2	.0						6.2	7.7
NW	1.2	1.9	1.8	1.2	.3	.0						6.4	7.8
NNW	1.4	2.7	2.2	1.2	.1							7.6	7.1
VARBL													
CALM												9.3	
	16.9	29.9	26.2	18.4	3.0	.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS)

0000-0200 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	2.8	1.9	1.2								8.5	5.9
NNE	.3	.6	.2	.1								1.3	5.7
NE	.2	1.2	.2									1.6	4.9
ENE	1.0	.5	.1	.3								1.9	5.1
E	1.4	1.1	.9	.1								3.4	4.7
ESE	.4	1.8	.8	.1								3.1	5.8
SE	1.4	2.9	1.2	.3	.1							5.9	5.8
SSE	1.0	2.2	2.7	1.6								7.4	8.0
S	2.2	3.0	2.8	2.5								10.4	7.3
SSW	1.9	3.5	.5	.9	.1							7.0	5.6
SW	2.0	1.3	.6									4.0	4.0
WSW	.9	1.3	.1	.1								2.4	4.4
W	2.3	4.1	1.2	.8								8.3	5.3
WNW	2.3	3.3	.8	.4			.1					6.9	5.1
NW	1.9	3.1	1.2	.4	.2	.1						7.0	5.8
NNW	2.4	2.6	1.8	.6								7.4	5.5
VARBL													
CALM												13.4	
	24.1	35.4	17.0	9.5	.4	.1	.1					100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 0300-0500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	2.7	2.3	.6								7.1	6.2
NNE	.8	.6	.3									1.7	4.6
NE	.5	.3	.2									1.1	4.5
ENE	.4	.8	.3	.2								1.7	5.6
E	1.3	1.4	.8	.1								3.5	4.8
ESE	.6	1.3	.9	.2								3.0	5.7
SE	.9	2.0	1.4	.2								4.5	5.9
SSE	1.8	3.0	2.9	.2	.2	.1						8.3	6.4
S	1.3	3.3	2.9	1.1								8.6	6.5
SSW	1.4	1.5	1.0	.4								4.3	5.7
SW	1.3	2.3	1.3		.1							4.9	5.4
WSW	1.9	1.4	.3	.4	.1							4.2	5.1
W	2.8	4.6	1.5	.9	.2	.1						10.1	5.9
WNW	1.8	3.0	1.5	.8	.1	.2						7.4	6.3
NW	2.6	3.1	1.1	.4								7.2	4.7
NNW	2.3	3.4	1.3	.6								7.6	5.4
VARBL													
CALM												14.7	
	23.1	39.8	19.9	6.2	.8	.4						100.1	4.9

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC FORM JUL 64 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 0600-0900 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	4.5	3.3	1.3								11.1	6.5
NNE	.8	1.0	.3	.1	.1							2.3	5.3
NE	.5	.5	.2									1.3	3.9
ENE	.8	1.0	.3									2.0	4.5
E	1.0	1.4	.4	.2								3.0	5.2
ESE	.5	1.1	1.4	.2								3.2	6.4
SE	.8	2.3	1.8	.4	.1							5.4	6.8
SSE	1.2	2.0	3.1	1.6		.1						8.1	7.7
S	1.5	2.5	4.0	2.3	.1	.2						10.5	8.1
SSW	.8	1.0	1.4	.3								3.4	6.6
SW	1.1	1.2	.5	.1								2.9	4.9
WSW	1.8	1.0	1.3	.8	.1							4.9	6.7
W	2.6	2.7	2.4	1.1	.1							8.8	6.5
WNW	2.4	2.0	2.8	.5	.1							7.8	6.1
NW	1.3	2.2	1.5	.9	.1							5.9	6.9
NNW	1.8	3.3	2.2	.8								8.1	5.9
VARBL													
CALM												11.2	
	20.6	29.6	27.0	10.5	.8	.3						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	3.0	4.5	2.3								11.7	7.7
NNE	.9	1.8	1.5	.4								4.6	6.3
NE	1.2	1.0	.6	.3								3.1	5.4
ENE	.8	1.0	.2	.1								2.0	4.5
E	.6	2.5	1.1	.2								4.4	6.0
ESE	.5	1.7	1.1	1.2								4.5	7.7
SE	1.2	1.4	1.3	1.5								5.4	7.5
SSE	1.1	.9	2.8	3.9	.6							9.2	10.4
S	.4	.6	2.9	3.9	.8	.2						8.8	11.6
SSW	.4	.8	1.5	1.2	.1							4.0	8.6
SW	.9	.8	1.3	.5	.1							3.5	7.2
WSW	.2	1.1	1.1	.3								2.7	6.9
W	.9	2.4	2.2	1.8	1.3	.1						8.6	9.7
WNW	.4	1.2	1.4	1.5	.6							5.2	9.9
NW	1.4	2.4	2.2	1.7	.2							7.8	7.7
NNW	1.4	1.9	3.2	1.8	.5							8.9	8.2
VARBL													
CALM												5.4	
	14.2	24.3	28.8	22.7	4.3	.3						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.7	2.7	4.2	4.3		.1						13.0	8.8
NNE	.9	1.3	1.9	.5	.1							4.7	6.9
NE	.6	1.5	.5	.1								2.8	5.0
ENE	.8	1.1	1.2									3.0	5.5
E	1.4	1.9	2.0	.6								6.0	6.2
ESE	.3	1.3	1.9	1.3								4.8	8.6
SE	.4	.8	1.5	2.5	.4							5.6	10.3
SSE	.3	.9	1.5	2.9	1.4	.3						7.3	12.3
S	.3	1.5	1.8	3.7	.9	.2						8.4	11.4
SSW	.2	.6	.6	2.2	.5							4.2	11.5
SW	.5	.2	1.2	.5	.1							2.6	8.5
WSW	.6	.9	1.8	.8								4.1	7.7
W	1.4	1.6	1.7	2.0	.5	.4						7.7	9.5
WNW	.5	1.1	2.2	1.6	.9	.4						6.7	11.0
NW	.6	2.2	2.0	2.5	.2	.2						7.7	9.3
NNW	.8	1.6	2.6	1.9	.5							7.4	9.2
VARBL													
CALM												3.9	
	11.5	21.1	28.8	27.4	5.6	1.7						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	3.0	6.6	2.8	.2	.1						14.1	8.5
NNE	1.0	1.3	1.7	1.1								5.1	7.5
NE	.6	1.4	.5	.3								2.9	5.6
ENE	.5	.9	.6	.2								2.3	5.8
E	.4	2.0	1.7	1.0								5.2	7.3
ESE	.3	1.4	2.4	1.3	.1							5.5	8.8
SE	.1	1.5	1.5	2.5	.6	.1						6.3	10.8
SSE	.3	.9	1.6	2.3	1.5	.2						6.8	12.4
S	.6	1.7	1.9	4.4	1.4	.2						10.3	11.4
SSW	.2	.9	.9	1.2	.3	.1						3.5	10.2
SW	.2	.2	.6	.8								1.8	9.4
WSW	.2	.9	1.7	.8								3.5	8.3
W	.6	2.0	1.7	1.5	.5	.2						6.7	9.4
WNW	.4	1.2	2.2	1.1	.4	.1						5.4	9.5
NW	.9	1.9	2.3	1.8	.5							7.4	8.9
NNW	.8	2.5	3.2	2.4	1.3	.1						10.2	9.8
VARBL													
CALM												3.0	
	8.7	23.7	31.2	25.3	7.0	1.2						100.1	9.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 AUG (MONTH)

ALL WEATHER (CLASS) 1800-2000 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.7	5.1	4.0	2.7	.2							13.7	7.6
NNE	1.2	2.3	2.7	.4	.1							6.7	6.7
NE	1.6	1.3	.5	.4								3.9	5.3
ENE	1.4	2.0	.4	.1								4.3	4.4
E	1.3	2.9	2.2	.2								6.6	5.4
ESE	.5	1.9	2.5	.9	.1							5.9	7.6
SE	.6	1.4	1.5	3.2	.5							7.3	10.0
SSE	.9	1.7	2.5	3.1	.6	.1						8.9	9.8
S	.8	1.9	1.9	1.8	.5							7.0	8.8
SSW	.4	.6	.6	.4	.1							2.3	8.0
SW	.8	.5	.5	.1								1.9	5.4
WSW	1.0	1.4	.1	.1								2.6	4.6
W	1.8	1.6	1.3	1.2	.1							6.0	6.6
WNW	1.0	1.6	1.2	.6								4.4	6.4
NW	.5	1.8	1.1	1.0	.1							4.5	7.5
NNW	1.2	1.9	2.2	1.1	.1							6.5	7.5
VARBL													
CALM												8.0	
	16.7	30.1	25.2	17.4	2.6	.1						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) ALL (MONTH)

ALL WEATHER (CLASS) 1100-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.5	3.0	1.3	1.2								8.0	5.5
NNE	.9	2.3	.8	.3								4.2	5.9
NE	1.7	1.0	.1									2.8	3.4
ENE	1.2	1.4		.1								2.7	4.1
E	1.4	2.5	1.1	.3								5.3	5.2
ESE	.4	2.5	1.9	.3								5.2	6.6
SE	.5	2.5	2.4	1.5	.5							7.4	8.6
SSE	.8	1.4	2.7	2.6	.3							7.7	9.3
S	2.0	2.4	2.8	1.6	.1							8.9	7.3
SSW	.9	1.7	.5	.1		.1						3.3	5.5
SW	1.7	1.7	.4									3.9	4.2
WSW	1.3	1.7	.2	.1								3.3	4.1
W	2.2	3.3	.8	.4								6.7	5.2
WNW	1.1	1.7	1.2	.2								4.2	5.5
NW	1.1	1.8	1.3	.4	.2							4.8	6.6
NNW	2.0	1.4	1.7	.5	.2							5.9	6.3
VARBL													
CALM												14.3	
	21.6	33.1	19.1	9.8	1.4	.1						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	3.5	3.5	2.0	.1	.0						11.0	7.3
NNE	.8	1.4	1.2	.4	.0							3.8	6.4
NE	.9	1.0	.4	.1								2.4	4.8
ENE	.8	1.1	.4	.1								2.5	4.9
E	1.1	2.0	1.3	.3								4.7	5.7
ESE	.5	1.6	1.6	.7	.0							4.4	7.3
SE	.7	1.8	1.6	1.5	.3	.0						6.0	8.4
SSE	.9	1.6	2.5	2.3	.6	.1						8.0	9.5
S	1.1	2.1	2.6	2.6	.5	.1						9.1	9.0
SSW	.8	1.3	.9	.8	.1	.0						4.0	7.5
SW	1.1	1.0	.8	.3	.0							3.2	5.9
WSW	1.0	1.2	.8	.4	.0							3.5	6.1
W	1.8	2.8	1.6	1.2	.3	.1						7.9	7.2
WNW	1.2	1.9	1.6	.8	.3	.1	.0					6.0	7.4
NW	1.3	2.3	1.6	1.1	.2	.0						6.6	7.2
NNW	1.6	2.3	2.3	1.2	.3	.0						7.8	7.4
VARBL													
CALM												9.3	
	17.6	29.0	24.6	16.1	2.8	.5	.0					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.6	3.4	2.8	.4							10.2	8.9
NNE	.4	.7	.8	.3								2.2	6.9
NE	.1	.4	.3									.9	6.2
ENE	.9	.6	.8	.1	.1							2.4	6.1
E	.9	.7	.3	.2	.3							2.4	7.3
ESE	.6	1.2	.7	.3								2.6	6.5
SE	.3	2.3	1.3	.4								4.4	7.0
SSE	.8	1.8	2.3	1.1								6.0	7.5
S	1.4	5.0	2.4	1.9								10.3	7.2
SSW	1.2	3.0	2.4	.6								7.2	6.5
SW	1.3	3.7	1.3	.1								6.4	5.2
WSW	1.6	2.3	1.0	.2	.2							5.3	5.5
W	2.9	4.4	1.9	.1								9.3	4.9
WNW	1.1	2.3	1.3	.7	.3	.3						6.1	7.9
NW	1.9	3.2	.9	.2	.1	.3						6.4	6.3
NNW	2.0	1.8	2.1	.8	.1							6.3	6.6
VARBL													
CALM												10.3	
	18.4	35.6	23.9	9.9	1.7	.7						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 0300-0500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.3	4.1	2.9	.2							10.8	8.4
NNE	.4	.9	.8	.3								2.4	6.6
NE	.3	.8	.3									1.4	4.8
ENE	.3	.3	.2	.2								1.1	5.8
E	.9	1.0	.7	.1	.2							2.9	6.7
ESE	.5	1.1	.3	.6								2.6	6.2
SE	.7	1.4	1.0	.3								3.4	6.3
SSE	.8	2.8	2.0	.8								6.3	6.8
S	1.2	3.9	4.1	1.1	.3							10.7	7.3
SSW	1.3	2.9	1.6	.2	.1							6.1	5.9
SW	1.3	3.6	1.9	.8								7.6	5.9
WSW	1.4	2.0	.3	.4	.1							4.3	5.6
W	2.1	4.8	2.3	.3								9.6	5.3
WNW	1.9	1.9	2.0	.7	.2	.1						6.8	6.7
NW	1.2	2.1	1.7	.9		.2	.1					6.2	7.5
NNW	1.0	3.0	1.7	1.4	.1		.1					7.3	7.3
VARBL													
CALM												13.4	
	16.8	34.8	25.0	11.1	1.3	.3	.2					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 990

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS)

0600-1800 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	3.7	3.9	3.4	.4							12.0	9.0
NNE	.2	.7	1.0	.4	.1							2.4	8.1
NE		.3	.4									.8	7.3
ENE	.2	.9	.6		.1							1.8	6.3
E	.2	.9	1.0	.2	.1							2.4	7.7
ESE	.6	1.1	.8	.4								2.9	7.0
SE	.7	2.0	1.1	.8								4.6	6.8
SSE	1.2	1.8	1.9	1.9	.1							6.9	7.8
S	.8	3.6	4.8	1.8	.1							11.0	7.9
SSW	.3	1.4	1.0	.4								3.2	7.2
SW	1.2	2.9	.8	.1								5.0	4.9
WSW	1.2	2.7	1.2	.7	.1							5.9	6.3
W	2.3	3.9	2.3	1.0	.1	.1						9.8	6.1
WNW	1.4	2.3	2.1	1.2		.2						7.3	7.3
NW	.6	3.1	1.8	1.0	.2	.4						7.1	8.3
NNW	1.6	2.0	2.4	1.1								7.1	6.9
VARBL													
CALM												9.8	
	13.1	33.2	27.1	19.6	1.9	.8						120.0	6.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.7	6.0	4.9	1.2	.4						15.9	10.4
NNE	.4	.8	1.0	1.2	.1							3.6	8.6
NE	.7	.6	.8	.1								2.1	5.6
ENE		.3	.8	.2								1.3	8.2
E	.4	.4	1.8	.6	.3							3.6	9.0
ESE	.6	1.0	1.3	.2								3.1	6.5
SE	.9	1.4	1.9	.9	.3							5.4	8.3
SSE	.4	2.1	2.9	1.7	1.1							8.2	9.6
S	.8	1.4	3.9	5.1	1.4	.1						12.8	11.1
SSW	.8	.7	1.8	2.6	.1							5.9	9.7
SW	.6	.4	.9	1.2	.3							3.4	9.7
WSW	.3	1.0	1.6	.9								3.8	8.1
W	.3	.9	2.8	2.7	.6	.3						7.6	11.3
WNW	.1	.9	1.8	1.3	.4	.6						5.1	11.5
NW	.7	2.0	2.6	2.2	.9	.2	.1					8.7	10.3
NNW	.7	1.6	2.6	2.0	.1							6.9	8.5
VARBL													
CALM												2.7	
	8.3	18.2	34.2	27.8	7.0	1.7	.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.3	5.4	5.0	1.0	.1						14.6	10.3
NNE	.1	.7	1.7	1.0	.3							3.8	9.9
NE	.2	.7	.7	.2								1.8	7.0
ENE	.1	.1	.8	.7								1.7	10.2
E	.3	1.1	2.1	1.2	.1							4.9	8.5
ESE	.3	.4	1.7									2.4	7.5
SE	.2	.7	1.3	1.0	.3							3.6	9.9
SSE	.7	1.2	3.6	1.7	1.7	.3						9.1	10.9
S	.7	1.4	3.4	4.4	1.2	.8						12.0	11.9
SSW	.4	.3	1.3	1.8	.2	.3	.1					4.6	12.6
SW	.2	.1	1.8	1.1	.1		.2					3.6	11.3
WSW	.2	1.1	2.1	1.3	.3							5.1	9.5
W	.6	1.2	3.2	2.6	.8	.3						8.7	10.7
WNW	.2	.4	1.6	1.7	1.0	.6						5.4	13.2
NW	.2	.4	3.2	1.9	.8	.3	.2					7.1	11.9
NNW	.2	1.6	3.2	3.3	.7	.1	.1					9.2	10.9
VARBL													
CALM												2.6	
	5.4	13.9	37.1	28.9	8.6	2.9	.7					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	3.3	6.0	3.8	2.0							15.7	10.3
NNE	.2	1.0	2.1	1.2	.1							4.7	9.2
NE		1.3	.9	.4				.1				2.4	9.5
ENE	.4	.9	.8	.2			.1					2.4	8.2
E	.4	.8	1.7	1.1								4.0	8.5
ESE	.2	.3	1.2	.4								2.2	8.5
SE		.4	1.1	1.0	.2							2.8	10.5
SSE	.9	1.6	3.1	2.9	.4	.1						9.0	9.9
S	.8	1.7	2.7	4.2	1.7	.6	.1					11.7	11.8
SSW	.6	.4	.6	1.3	.1							3.0	9.2
SW	.2	.7	2.1	.8	.4							4.2	9.9
WSW	.3	1.3	2.4	1.0		.3						5.4	9.2
W	.2	1.9	2.0	2.3	.8	.1						7.3	10.7
WNW	.3	.9	2.2	1.3	.7	.3						5.8	11.0
NW	.3	1.3	2.7	2.3	1.1	.3	.3					8.1	12.1
NNW	.3	1.1	3.9	2.4	1.1	.2						9.1	11.0
VARBL													
CALM												2.1	
	5.9	18.3	35.4	26.9	8.7	2.0	.6	.1				100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 1800-2000 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	3.9	4.1	4.0	.3	.2						13.9	8.9
NNE	1.0	2.7	2.1	.9								6.7	6.8
NE	.6	1.2	.7	.3								2.8	6.0
ENE	.7	1.0	1.2	.2		.1	.2					3.4	8.5
E	.3	2.1	.9	.3	.1							3.8	6.9
ESE	.4	1.8	.9	.4								3.6	6.4
SE	.6	3.2	2.6	.4								6.8	6.8
SSE	1.0	2.9	2.3	2.2	.2							8.7	8.1
S	.9	4.0	2.9	1.6	.1							9.4	7.2
SSW	.9	1.9	.7	.6								4.0	6.1
SW	1.3	1.1	.3									2.8	4.1
WSW	.6	2.0	.3									2.9	4.6
W	1.3	3.2	1.9	.8	.3	.1						7.7	7.1
WNW	.7	1.2	.9	.7	.3	.4						4.2	9.3
NW	.9	1.9	1.7	1.1	.3	.6						6.4	9.6
NNW	.7	1.4	2.1	2.4	.1							6.8	8.9
VARBL													
CALM												6.2	
	13.1	35.6	25.6	16.0	1.9	1.4	.2					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 990

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	3.7	3.3	3.1	.4	.3						11.9	9.1
NNE	.8	.9	1.3	.8		.1						3.9	7.9
NE	1.2	.8	.8	.3	.1							3.2	6.1
ENE	.6	.9	.6	.1								2.1	5.4
E	.9	1.7	1.0		.3							3.9	6.5
ESE	.4	.8	1.3	.1								2.7	6.7
SE	.4	2.3	2.4	.6	.2							6.0	7.4
SSE	.8	2.6	2.7	1.2								7.2	7.3
S	1.4	3.9	2.4	2.1	.3							10.2	7.6
SSW	.6	4.8	1.0	.1								6.4	5.3
SW	1.1	2.8	.8									4.7	4.6
WSW	1.2	1.6	1.0	.1	.1							4.0	5.4
W	2.1	3.8	1.0	.1	.3	.2						7.6	5.8
WNW	1.1	2.4	1.1	.3		.3						5.3	6.8
NW	1.0	1.1	.9	.6	.3	.1						4.0	8.1
NNW	1.1	2.2	1.7	.7	.1	.2						6.0	7.4
VARBL													
CALM												10.9	
	15.8	36.1	23.3	10.2	2.3	1.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (LST))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.1	4.5	3.7	.8	.1						13.1	9.5
NNE	.5	1.2	1.3	.8	.1	.0						3.7	8.2
NE	.4	.7	.6	.2	.0			.0				1.9	6.6
ENE	.4	.6	.7	.2	.0	.0	.0					2.0	7.4
E	.6	1.1	1.2	.5	.2							3.5	7.7
ESE	.5	.9	1.0	.3								2.7	6.8
SE	.5	1.7	1.6	.7	.1							4.6	7.7
SSE	.8	2.1	2.6	1.7	.4	.1						7.7	8.7
S	1.0	3.1	3.3	2.8	.7	.2	.0					11.1	9.1
SSW	.8	1.9	1.3	.9	.1	.0	.0					5.1	7.6
SW	.9	1.9	1.2	.5	.1		.0					4.7	6.6
WSW	.9	1.7	1.2	.6	.1	.0						4.6	6.9
W	1.5	3.0	2.2	1.2	.4	.2						8.4	7.6
WNW	.9	1.6	1.6	1.0	.4	.4						5.8	9.2
NW	.8	1.8	1.9	1.3	.5	.3	.1					6.8	9.5
NNW	.9	1.8	2.5	1.8	.3	.1	.0					7.4	8.6
VARBL													
CALM												6.9	
	12.1	28.2	28.9	18.2	4.1	1.8	.2	.0				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 7290

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 0000-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	1.6	2.2	3.3	1.0	.1						8.7	10.5
NNE	.2	.4		.5								1.2	8.3
NE	.1	1.0	.5	.3								1.9	7.3
ENE	.6	.4	.1	.1								1.3	4.3
E	.1	.8	.2			.1						1.2	7.3
ESE	.5	1.1	.3									1.9	4.7
SE	.3	1.3	.6	.4								2.7	6.8
SSE	.3	1.8	3.1	2.6	1.0							8.8	10.3
S	.3	2.9	4.9	2.8	.9							11.8	9.4
SSW	.6	1.4	1.4	.6								4.1	6.9
SW	.9	3.7	2.2	.2								6.9	5.8
WSW	1.1	1.7	1.2	.5	.2							4.7	6.9
W	1.2	5.3	3.0	1.6		.1						11.2	7.1
WNW	1.3	1.9	2.6	1.6	.1							7.5	8.0
NW	1.0	1.8	3.1	1.4		.2						7.5	8.1
NNW	.4	2.0	3.1	2.7	.9	.5	.1					9.8	10.8
VARBL													
CALM												8.7	
	9.6	29.1	28.6	18.8	4.0	1.1	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 0300-0500 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.7	2.7	3.7	1.2	.1						10.5	10.5
NNE	.3	.4	.8	.3								1.8	8.1
NE	.4	.2		.2								.9	5.3
ENE	.1	.1	.1	.1								.4	7.5
E	.1	1.0	.8	.1								1.9	6.6
ESE	.2	.5										.8	4.9
SE	.4	1.5	.5	.4								2.9	6.5
SSE	.6	2.3	3.4	2.9	.1							9.4	6.9
S	.3	2.2	5.9	3.6	.3	.1						12.4	9.5
SSW	.6	1.7	1.4	1.1								4.8	7.2
SW	.6	2.3	1.0	.4								4.3	5.8
WSW	.5	2.3	1.0	.3								4.1	6.1
W	1.5	4.1	4.0	2.4	.5							12.5	8.0
WNW	1.5	3.6	4.6	1.3	.1							11.1	7.2
NW	.6	1.8	2.7	1.3								6.5	6.0
NNW	.2	1.9	2.0	2.4	.4		.2					7.2	10.4
VARBL													
CALM												8.8	
	9.1	27.6	30.9	20.5	2.7	.2	.2					100.1	7.6

TOTAL NUMBER OF OBSERVATIONS 529

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS)

0600-0900 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.4	3.2	4.0	1.4							11.6	12.5
NNE	.1	.5	.4	.3								1.4	7.8
NE	.1	.1		.2								.4	7.8
ENE	.2	.3		.1								.6	5.8
E	.9	.2	.8	.1								1.9	5.5
ESE	.3	.4										.8	4.1
SE	.5	1.1	1.6	.3	.1							3.7	7.3
SSE	.5	2.2	3.7	2.5	.6							9.5	9.3
S	1.4	3.7	4.6	2.9	.6							13.2	6.3
SSW	.3	1.2	1.5	1.0								4.0	7.9
SW	.3	1.5	1.0	.1								2.9	6.5
WSW	.6	1.5	1.5	.4								4.1	6.8
W	2.4	4.8	4.3	2.4	.3							14.2	7.3
WNW	.4	3.5	2.7	1.7	.6	.1	.1					9.2	9.0
NW	.8	1.7	1.9	1.6	.3							6.3	8.4
NNW	.5	1.4	2.2	2.6	.6	.1	.2					7.6	10.5
VARBL													
CALM												9.5	
	10.1	26.6	29.4	20.2	4.7	.2	.3					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	1.6	3.2	6.2	1.8	.6						13.3	12.5
NNE	.3	.2	1.0	1.0								2.5	9.7
NE	.5	.9	.5	.3								2.3	6.6
ENE	.6	.4	.3									1.4	4.5
E	.4	.9	.9	.1								2.3	6.2
ESE	.2	.2	.3	.3								1.1	8.2
SE	.4	.6	1.0	.6	.1							2.3	8.1
SSE	.5	1.5	2.0	3.0	1.8	.4						9.4	12.2
S	.9	.6	3.4	5.9	2.4	.1						13.3	12.1
SSW	.6	1.1	1.7	2.3	.2	.1						6.0	9.7
SW	.6	1.2	1.0	1.2	.2							4.2	6.5
WSW	.6	.4	1.7	1.6	.3							4.7	9.6
W	.3	1.4	2.8	2.4	1.0	.2						8.1	12.8
WNW	.2	1.3	2.6	2.0	.6	.2	.3					7.3	11.6
NW	.4	1.6	2.4	2.7	1.4	.2	.2					8.9	11.6
NNW	.4	2.0	2.7	2.0	1.8	.5						9.6	11.6
VARBL													
CALM												2.9	
	7.5	16.0	27.3	31.5	11.7	2.5	.5					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-8? (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 1200-1499 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	1.3	3.3	7.2	2.7	.4	.1					15.3	13.2
NNE	.1	.3	1.2	1.2								2.8	10.2
NE		.9	.3	.3								1.5	8.4
ENE	.2	1.2	.5	.2								1.9	6.8
E	.5	1.2	.8	.4								2.7	7.2
ESE	.1	.9	.1	.4								1.5	7.8
SE	.1	.2	1.3	.9	.2							2.7	10.1
SSE		1.1	1.7	2.7	2.3	1.2	.1					9.3	14.5
S	.1	1.5	4.2	4.0	2.4	.5	.2					12.7	12.6
SSW	.2	.9	1.8	2.4	.5	.3						6.1	11.6
SW		.2	1.7	3.0	.4							5.4	12.3
WSW	.1	.9	1.1	1.5	.2							3.7	10.9
W	.2	.1	2.4	3.3	1.2	.2	.1	.1				7.6	13.4
WNW	.3	.9	1.5	2.8	1.5	.5	.1					7.5	13.3
NW	.4	.9	3.0	2.2	1.7	.6	.1					8.9	12.5
NNW	.4	1.2	1.3	3.5	1.6	.5	.1					8.7	13.1
VARBL													
CALM												1.9	
	3.1	12.8	26.0	36.0	14.7	4.4	.9	.1				100.0	12.5

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 15.0-17.0 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.1	1.9	5.2	6.3	1.9	.5	.4					16.3	12.6
NNE	.2	1.1	.8	1.1								3.1	6.5
NE	.2	1.2	1.1	.5	.1							3.1	8.2
ENE	.6	.6	.8	.2								2.3	6.2
E	.4	.6	.9	.2								2.2	6.7
ESE	.2	.5	.8	.2								1.8	6.9
SE		.9	.6	.9	.3							2.7	10.1
SSE	.2	1.0	1.9	3.3	1.9	.6	.3					9.4	13.8
S	.1	1.2	3.5	4.2	1.9	.4	.1					11.5	12.6
SSW		.6	2.4	1.6	.4							5.1	10.5
SW	.1	.8	1.4	1.3	.2	.1						3.9	9.7
WSW	.5	.6	1.0	1.2	.2							3.5	9.6
W	.6	1.3	1.7	1.8	.9	.3	.1					6.8	10.8
WNW	.3	.6	1.1	3.7	1.0	.6	.2	.1				7.6	13.8
NW	.1	1.6	2.8	3.5	1.2	.2						9.5	11.5
NNW	.2	.6	1.9	3.8	1.2	.4						8.2	12.6
VARBL													
CALM												3.1	
	4.1	15.3	27.7	33.9	11.3	3.3	1.2	.1				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS)

1800-2000 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	3.4	4.2	4.3	1.1		.3					14.1	9.9
NNE	.4	1.3	.6	.6								2.7	7.4
NE	.8	1.5	.8	.2								3.2	5.4
ENE	1.1	1.3	.2	.3	.2							3.1	5.9
E	.5	1.3	.3	.2								2.3	5.4
ESE	.1	1.3	.5	.1								1.7	6.5
SE	.4	1.7	2.4	1.3	.1							5.9	7.9
SSE	1.3	2.9	2.7	3.8	.8							11.1	9.5
S	.5	3.4	4.6	1.9	.4	.2						11.2	8.6
SSW	.3	2.4	.9	.5	.2							4.3	7.3
SW	1.2	2.5	.8	.4								4.8	5.8
WSW	1.2	1.6	.8	.1								3.7	5.2
W	1.2	2.3	1.3	.9	.4	.2	.2					6.2	8.7
WNW	.8	1.8	1.6	.4	.1			.1				4.8	7.4
NW	.4	1.5	2.3	1.4	.5	.1						6.3	9.4
NNW	1.2	2.6	1.9	1.9	.8	.4						8.8	9.3
VARBL													
CALM												6.2	
	12.2	31.6	25.6	18.2	4.6	1.0	.5	.1				100.3	7.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	2.3	3.7	3.5	.8	.1	.2					10.8	10.8
NNE	.2	.6		.3								1.2	6.8
NE	.3	.8	.5	.6	.1							2.4	6.3
ENE	.4	.6	.3	.2								1.6	5.5
E	.3	1.4	.5									2.3	5.1
ESE	.2	1.0	.1									1.3	5.0
SE	.3	.6	1.2	.5								2.7	7.9
SSE	.6	2.5	3.2	3.5	1.0							10.9	10.2
S	1.4	3.8	4.6	2.2	.2							12.2	7.7
SSW	.8	1.9	1.4	.8	.3							5.2	7.5
SW	1.4	1.9	1.8	.4	.2							5.8	6.2
WSW	.4	2.9	.8	.5								4.6	6.2
W	1.4	3.8	1.4	1.6	.1							8.3	7.0
WNW	.9	2.2	1.4	1.1	.3	.2	.2					6.2	9.0
NW	1.6	1.9	2.7	1.4	.4							8.1	7.8
NNW	1.0	1.5	1.8	1.9	.3	.9	.2					7.6	11.0
VARBL													
CALM												9.0	
	11.5	29.7	25.5	18.7	3.8	1.2	.6					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	2.0	3.4	4.8	1.5	.2	.1					12.5	11.4
NNE	.2	.6	.6	.7								2.1	8.5
NE	.3	.8	.5	.3	.0							2.0	7.1
ENE	.5	.5	.3	.2	.0							1.6	5.8
E	.4	.8	.6	.1		.0						2.1	6.2
ESE	.2	.7	.3	.1								1.4	6.1
SE	.3	1.0	1.2	.7	.1							3.3	8.0
SSE	.5	1.9	2.7	3.0	1.2	.3	.1					9.7	11.0
S	.6	2.4	4.5	3.4	1.1	.2	.0					12.3	10.1
SSW	.4	1.4	1.6	1.3	.2	.1						4.9	8.8
SW	.6	1.7	1.3	.9	.1	.0						4.8	7.5
WSW	.6	1.5	1.1	.8	.1							4.1	7.6
W	1.1	2.8	2.6	2.0	.6	.1	.1	.0				9.4	8.8
WNW	.7	2.0	2.3	1.8	.6	.2	.1	.0				7.7	9.8
NW	.7	1.6	2.6	1.9	.7	.2	.0					7.7	9.9
NNW	.6	1.7	2.1	2.6	1.0	.4	.1					8.4	11.2
VARBL													
CALM												6.2	
	8.4	23.6	27.6	24.7	7.2	1.7	.6	.2				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 0000-0200 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.1	2.6	4.4	1.3	.6	.2					12.1	11.6
NNE	.2	.7	.7	.3	.2							2.1	6.4
NE	.3	.2	.2	.1								.9	5.9
ENE		.4	.2	.2								.9	7.5
E		.6	.3									.9	6.0
ESE	.3	.1	.6	.1								1.1	7.3
SE	.9	1.0	.3									2.2	4.5
SSE	.4	2.2	3.0	1.0	.9							7.6	8.9
S	.6	4.7	5.7	1.8	.1							12.8	7.7
SSW	1.0	2.9	2.2	1.0								7.1	6.9
SW	1.2	2.4	1.3	.4								5.4	5.6
WSW	.8	2.1	1.0	.3		.1	.1					4.4	7.0
W	1.3	3.1	2.6	1.8	.1	.1						9.0	7.7
WNW	.9	1.8	2.4	2.7	.3	.2						8.3	9.3
NW	.9	2.1	2.9	1.6	.4		.1	.1				6.1	9.2
NNW	.4	1.4	3.2	2.0	.9	.3	.3					8.7	11.2
VARBL													
CALM												8.3	
	10.2	27.9	29.2	17.8	4.3	1.3	.8	.1				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 0300-0530 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	2.3	4.2	4.9	1.9	.3	.1					14.4	11.2
NNE		.1	.3	.1	.1							.7	10.8
NE	.2		.4	.1								.8	7.4
ENE		.4	.3	.1								.9	7.8
E	.1	.4	.2									.8	5.3
ESE	.4	.3	.1									.9	4.6
SE	.4	1.1	1.0	.3								2.9	6.5
SSE	1.0	2.0	2.6	1.1	.1							6.8	7.6
S	.7	3.1	5.3	4.0	.1							13.2	8.7
SSW	.6	2.0	1.9	.8	.1							5.3	7.2
SW	1.2	2.9	1.0	.2								5.3	5.2
WSW	.6	1.7	1.4	.2								3.9	6.3
W	1.3	3.2	2.6	2.1	.3		.3					9.9	8.7
WNW	.4	1.9	3.6	1.8	.1							7.8	8.5
NW	.4	2.1	3.7	2.3	.3	.4						9.3	9.8
NNW	.4	2.3	2.1	2.0	.9	.7						8.4	10.9
VARBL													
CALM												8.7	
	8.7	26.0	30.8	20.1	3.9	1.4	.4					100.3	8.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 0600-1800 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	2.0	4.1	4.0	1.6	.4	.3					12.7	11.9
NNE		.6	.8		.1	.1						1.6	9.4
NE		.6	.2									.8	5.3
ENE	.2	.2	.2									.7	5.8
E	.2	.3	.1									.7	5.3
ESE	.2	.8	.1									1.1	4.8
SE	.6	1.0	1.6	.6								3.7	7.4
SSE	.8	2.9	3.0	.6	.2							7.4	7.2
S	.7	4.4	5.2	3.0								13.3	8.2
SSW	.9	1.7	1.4	.9								4.9	6.8
SW	.7	.8	.9	.8								3.1	7.3
WSW	.4	1.6	1.1	.3								3.4	6.4
W	.4	3.3	3.1	1.8	.7	.4						9.6	9.3
WNW	.7	2.6	4.3	1.7	.4	.1						9.8	8.4
NW	1.1	1.8	3.8	1.9	.4	.6						9.6	9.5
NNW	1.2	1.9	1.8	3.0	1.0	.4						9.3	10.3
VARBL													
CALM												8.2	
	8.3	26.3	31.8	18.4	4.4	2.1	.3					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 910

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 0900-1100 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.1	3.1	5.5	1.6	.4	.6					14.1	12.2
NNE	.3	.3	.7	.4								1.8	7.4
NE	.1	.1	.4	.2								.9	8.5
ENE	.3	.4	.4									1.2	5.5
E	.2	.3	.2									.3	5.6
ESE		.3	.2									.6	6.2
SE	.4	1.2	1.0	.3								3.0	6.2
SSE	.6	2.4	2.6	2.8	.6							8.9	9.5
S	.6	2.3	3.8	4.2	.8	.2						11.9	10.2
SSW	.4	1.2	2.0	1.0	.1							4.8	8.1
SW	.8	.6	1.6	.7								3.6	7.4
WSW	.1	1.6	.9	.8								3.3	5.2
W	.2	2.4	4.0	1.6	.8	.2	.2					9.5	9.9
WNW	.3	2.2	2.4	2.8	.6	.2	.4					9.3	11.2
NW	.6	2.0	4.4	3.9	1.3	.4						12.7	10.8
NNW	.3	1.1	2.9	4.3	1.1	.8						10.6	12.4
VARBL													
CALM												3.4	
	6.2	20.8	30.7	28.5	6.8	2.3	1.2					100.1	9.9

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 1200-1400 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.8	5.4	4.7	2.2	.9	.2	.2				16.8	12.3
NNE	.3	.3	1.4	1.1								3.2	9.1
NE		.2	.1	.1								.4	7.8
ENE	.2	.1	.4	.1								.9	6.3
E	.2	.1	.6	.1								1.0	7.6
ESE	.3	.7	.2									1.2	4.8
SE	.4	1.2	1.3	.6	.1							3.4	7.9
SSE	.3	2.1	1.8	2.6	.7	.2						7.6	10.3
S	.3	.7	3.8	3.6	1.3	.7						10.3	12.2
SSW	.2	.4	1.9	2.0	.7							5.2	11.5
SW	.2	.7	1.6	.6								3.0	8.2
WSW	.2	.9	1.4	.9								3.4	7.9
W	.3	1.8	3.7	2.2	.3	.4	.1					8.9	12.1
WNW	.1	1.8	3.4	4.0	.9	.2	.3					10.8	11.7
NW	.8	1.4	1.4	3.1	1.8	.3	.1					9.0	12.1
NNW	.4	1.8	2.2	4.7	2.1	.7						11.9	12.5
VARBL													
CALM												2.9	
	5.9	15.7	33.8	32.2	10.1	3.4	.8	.2				100.2	10.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS)

1500-1700 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	3.2	5.1	5.6	2.1	.7	.1	.2				17.1	11.5
NNE	.3	1.0	1.7	.9								3.9	8.1
NE	.7	.3	.1	.1								1.2	4.5
ENE	.6	.9	.2	.3								2.0	6.2
E	.8	.6	.3									1.7	4.7
ESE	.2	.3	.6	.4								1.6	7.7
SE	.2	1.3	1.6	.2	.1							3.4	7.6
SSE	.9	1.9	2.7	1.9	1.1	.1	.2					8.8	10.1
S	.4	2.9	3.1	2.4	.7	.2						9.8	9.5
SSW	.6	.7	1.6	1.4	.7	.1						5.0	10.1
SW	.4	1.2	1.1	.2								3.0	6.3
WSW	.2	1.4	1.1	.3								3.1	6.9
W	1.3	2.8	2.4	1.3	.7	.1						8.3	8.3
WNW	.6	1.9	2.1	2.3	.8	.1	.3					8.1	11.1
NW	.7	1.4	2.9	3.0	.7	.1	.2					9.0	10.7
NNW	.4	1.1	1.1	3.4	1.7	.8		.1				8.7	13.6
VARBL													
CALM												5.3	
	8.4	23.0	27.7	24.0	8.4	1.5	.9	.3				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 1800-2100 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	3.6	3.3	4.4	.8	.7	.4					14.3	10.5
NNE	.6	1.2	.7	.4								2.9	8.2
NE	.2	.6		.3								1.1	7.6
ENE	.6	.6	.1	.1								1.3	4.8
E	.6	.9	.9	.1								2.4	6.1
ESE	.3	.9	.6	.2								2.0	8.2
SE	.4	1.2	.4									2.1	4.9
SSE	1.6	2.4	2.8	1.4	.4	.1						8.8	7.9
S	.8	3.6	5.0	2.0	.8	.1						12.2	6.4
SSW	.7	3.1	1.3	.6	.2							5.9	6.7
SW	.6	1.6	1.1	.1								3.3	5.9
WSW	1.0	1.9	.7	.1								3.7	5.0
W	1.3	4.1	1.9	1.7	.1							9.1	6.8
WNW	.3	3.0	2.0	1.7	.7	.1						7.8	9.1
NW	.7	2.2	1.7	1.2	.6	.1		.1				6.6	9.1
NNW	.6	.9	2.4	2.8	.7	.2		.2				7.8	11.7
VARBL													
CALM												3.7	
	11.2	31.7	24.9	17.2	4.2	1.3	.4	.3				100.1	7.6

TOTAL NUMBER OF OBSERVATIONS 735

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.9	3.9	4.0	1.4	.9	.7					14.7	11.6
NNE	.2	.3	.3	.2	.1	.1						1.3	9.6
NE		.3	.1	.3								.8	9.7
ENE	.4	.3	.4	.1								1.3	5.9
E	.6	.4	1.0	.2								2.2	6.5
ESE	.3	1.1	1.0									2.4	5.9
SE	.3	1.1	.9									2.3	5.9
SSE	1.2	1.4	1.6	.6	.7							5.4	8.3
S	.8	4.2	5.8	2.2	.6							13.6	8.3
SSW	.7	2.8	2.2	1.3	.2							7.2	7.7
SW	1.2	2.2	1.2	.2								4.9	5.4
WSW	.8	2.3	1.2			.1						4.1	5.9
W	1.8	4.3	2.6	1.7				.1				10.1	6.9
WNW	.3	2.8	2.0	1.9	.6							7.6	8.9
NW	.3	1.6	3.2	1.7	.7	.2		.3				8.1	11.3
NNW	.6	.8	1.6	2.0	.6							5.4	10.1
VARBL													
CALM												8.6	
	10.6	28.2	29.0	16.4	4.8	1.3	.7	.4				100.1	7.8

TOTAL NUMBER OF OBSERVATIONS 999

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 77-82 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	2.5	4.0	4.7	1.6	.6	.3	.1				14.5	11.6
NNE	.2	.6	.8	.4	.1	.0						2.2	8.3
NE	.2	.3	.2	.2								.9	6.9
ENE	.2	.4	.3	.1								1.2	6.1
E	.3	.5	.5	.1								1.3	6.9
ESE	.3	.6	.4	.1								1.4	8.1
SE	.5	1.1	1.0	.3	.0							2.7	8.6
SSE	.8	2.3	2.5	1.5	.6	.1	.0					7.7	8.8
S	.6	3.2	4.7	2.9	.5	.2						12.1	9.1
SSW	.6	1.8	1.8	1.1	.3	.0						5.7	8.2
SW	.6	1.5	1.2	.4								3.7	6.2
WSW	.5	1.6	1.1	.4		.0	.0					3.7	6.7
W	1.0	3.1	2.8	1.8	.4	.2	.1	.0				9.3	8.5
WNW	.5	2.2	2.8	2.3	.5	.1	.1					8.6	7.9
NW	.7	1.8	3.0	2.3	.8	.3	.1	.1				9.1	10.3
NNW	.6	1.4	2.2	3.0	1.1	.5	.0	.0				8.9	11.7
VARBL													
CALM												0.1	
	8.7	24.9	29.4	21.6	5.9	1.9	.7	.2				100.1	8.7

TOTAL NUMBER OF OBSERVATIONS 7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 000-2324 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.9	4.7	5.2	1.5	.1	.1	.2				15.7	10.4
NNE	.5	.2	.6	.1	.1							1.6	7.2
NE		.2	.3	.8								1.3	9.9
ENE		.5	.6	.1								1.3	7.6
E	.3	.3										.6	3.7
ESE	.2	.5	.4	.1								1.3	6.3
SE	.3	1.4	1.4	.4								3.5	7.1
SSE	.3	1.9	2.8	1.7	.4							7.2	9.1
S	1.6	2.4	2.8	4.2	1.2	.2						12.2	9.7
SSW	1.1	1.5	.9	.8	.3							4.5	7.6
SW	1.7	2.2	1.1	.8	.1							5.8	6.1
WSW	1.5	2.1	1.4	.3	.4							5.2	7.2
W	1.1	2.2	2.7	1.3	.5	.2	.1					8.1	8.7
WNW	.9	1.6	3.3	1.9	.6	.1						8.5	9.5
NW	.9	2.3	1.6	2.3	.5							7.5	9.2
NNW	.9	1.3	4.2	2.3	1.0	.2						9.8	10.1
VARBL													
CALM												5.9	
	11.8	23.3	28.9	21.9	6.8	.9	.2	.2				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 0700-0959 (HOURS (LST))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.8	4.5	3.7	2.9	.9	.1	.1				15.8	11.7
NNE	.2	.2	.4	.9	.1							1.8	9.9
NE	.2	.5	.3	.1								1.2	6.7
ENE	.3	.5	.3	.4								1.6	6.9
E	.1	.3	.3	.1								.9	7.3
ESE	.2	.6	.5	.5								1.9	8.1
SE	.5	1.2	1.6	.8								3.9	7.7
SSE	.2	1.5	2.5	1.2	.2							5.6	8.8
S	1.1	4.1	2.8	3.7	1.5							13.1	9.4
SSW	.5	1.2	.8	.9	.1	.1						3.5	6.5
SW	1.2	1.2	.8	.3								3.4	5.3
WSW	.5	1.4	1.3	1.0		.1						4.3	7.9
W	1.6	2.9	1.9	1.4	.3	.3						8.4	8.2
WNW	.8	2.4	3.2	1.5	.3	.1						8.3	8.3
NW	.6	3.0	3.3	2.2	.8	.1						10.0	9.0
NNW	1.1	2.2	2.0	2.3	.6	.1						8.3	9.1
VARBL													
CALM												8.0	
	10.1	25.7	26.7	20.8	6.9	1.7	.1	.1				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 0600-0800 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	2.9	3.7	4.1	2.8	1.0						15.6	11.7
NNE	.1	1.1	1.0	.4								2.6	7.6
NE	.1	.4	.4	.3								1.3	8.0
ENE		.9	.3	.4								1.6	7.6
E	.3	.5	.3	.1								1.3	5.6
ESE		.2	.3	.2	.3							1.1	11.4
SE	.5	1.7	1.1	1.0	.2							4.5	8.0
SSE	.6	1.7	2.4	.8	.2							5.7	7.8
S	1.3	4.2	5.1	3.2	1.7							15.5	9.3
SSW	.3	1.2	.4	.6	.2							2.8	8.2
SW	.1	1.1	1.0									2.2	6.0
WSW	.2	.6	.8	.8	.1							2.5	9.1
W	1.0	2.6	3.5	1.8	.6	.1						9.7	8.7
WNW	.8	2.9	3.0	2.2	.5	.3						9.7	9.0
NW	1.1	2.4	2.4	1.5	.6	.3						8.3	8.8
NNW	.9	2.7	2.5	1.9	1.0	.4						9.4	10.0
VARBL													
CALM												6.5	
	8.5	27.1	28.1	19.4	8.4	2.2						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 900-1100 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.4	2.9	5.6	2.8	.3						14.2	11.6
NNE	.1	.8	1.0	.4								2.3	7.9
NE	.3	.2	.5	.3								1.4	7.5
ENE	.3	.2	.5	.1								1.2	6.4
E	.1	.1	1.2	.2								1.6	8.5
ESE	.1	.3	.3	.2	.1							1.1	9.3
SE	.4	.9	1.2	.5								3.2	7.4
SSE	.4	.9	2.9	1.5	1.1	.1						6.9	10.8
S	1.4	3.3	5.4	4.5	2.0	.2						16.9	12.2
SSW	.4	.6	.8	.6	.1							2.6	8.2
SW	.2	.9	.4	.1								1.6	6.2
WSW	.6	.9	.3	.6								2.5	7.4
W	1.1	2.5	2.8	2.4	.8	.8						10.2	10.2
WNW	.9	1.9	2.5	1.3	1.3	.1						8.2	9.9
NW	.8	2.4	2.2	2.3	.5	.2						8.3	9.4
NNW	.8	2.2	2.8	3.2	1.8	.4	.1					11.3	11.5
VARBL													
CALM												6.3	
	8.9	20.3	27.6	24.0	10.5	2.2	.1					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 1200-1459 (HOURS (L S T))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.7	3.9	8.1	2.3	.6						17.4	12.3
NNE	.1	.3	.8	.5								1.7	6.7
NE	.3	.5	.9									1.7	6.4
ENE	.1	.2	.5	.2								1.1	6.2
E	.4	.4	1.3	.3								2.5	7.3
ESE			.4		.1							.5	9.6
SE	.2	.8	1.3	1.1								3.3	9.1
SSE	.2	1.7	2.6	1.0	.8	.1						6.3	9.6
S	.6	2.0	3.3	5.3	2.8	.3						14.4	11.9
SSW	.2	.9	1.0	1.2	.3							3.5	9.8
SW	.2	1.2	1.1	.4	.2	.1						3.2	9.3
WSW	.3	.9	.8	1.5								3.4	9.5
W	.8	1.9	2.4	2.6	.6	.4						8.7	9.9
WNW	.3	.9	2.2	2.9	.6	.4	.1					7.4	11.9
NW	.5	2.2	2.9	2.8	.3	.2	.1					9.0	10.0
NNW	.5	1.5	1.9	4.5	2.3	.5						11.3	12.6
VARBL													
CALM												4.3	
	5.8	17.1	27.1	32.4	10.3	2.8	.2					100.2	10.4

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) D:C (MONTH)

ALL WEATHER (CLASS) 1500-1700 (HOURS (L S T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.5	5.6	6.8	2.8	.2						19.8	11.3
NNE	.5	.5	.6	.3								2.0	6.8
NE		.1	1.0									1.1	8.7
ENE		.1	1.0	.3								1.4	9.2
E	.3	.6	1.2	.2	.1							2.5	7.3
ESE	.2	.5	.8		.1							1.6	7.4
SE	.2	1.1	1.4	.4								3.1	7.7
SSE	.2	.8	1.8	1.9	1.2							5.9	11.3
S	.9	2.8	5.2	4.8	1.9							15.6	10.6
SSW	.6	1.5	.9	.9								3.9	6.9
SW	.3	1.2	.6	.5	.1							2.8	7.4
WSW	.4	2.0	1.3	.2	.1	.1						4.2	7.2
W	1.1	2.0	2.6	1.3	.3	.3	.1					7.7	8.9
WNW	.3	1.9	2.6	1.5	.8	.2						7.3	9.7
NW	.8	1.6	1.6	2.2	.3	.3						6.8	9.8
NNW	.5	1.8	2.8	3.3	.9	.2	.1					9.7	10.9
VARBL													
CALM												5.6	
	7.4	21.2	30.9	24.7	8.6	1.4	.2					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS)

1800-2200 (HOURS (L.S.T.))

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.3	4.0	6.9	1.4	.2						15.5	11.3
NNE	.2	.4	1.0	.5								2.2	8.1
NE	.1	.4	.5	.1								1.2	6.9
ENE	.2	.4	1.0									1.6	7.4
E	.6	1.2	.4									2.3	4.9
ESE	.1	.2	.4	.3	.1	.1						1.3	10.4
SE	.8	1.0	.8	.6	.1							3.2	7.7
SSE	1.0	1.5	2.4	1.7	.5							7.1	9.0
S	.9	3.1	4.5	3.9	1.8	.1						14.3	10.1
SSW	.9	1.4	1.5	.9	.1							4.7	7.5
SW	.9	1.7	.3	1.0	.1							4.0	7.0
WSW	.5	1.5	.6	1.1								3.8	7.4
W	1.2	3.0	2.5	1.2	.2	.4						8.5	6.1
WNW	1.0	1.4	1.4	1.4	1.1	.2	.1					6.6	10.3
NW	.8	2.7	2.6	1.9	.3	.3						8.6	8.8
NNW	.6	1.1	2.5	1.9	1.3	.3						7.8	11.3
VARBL													
CALM												7.2	
	10.4	23.4	26.4	23.5	7.1	1.8	.1					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 2100-2300 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	2.3	4.6	6.4	1.7	.4						16.2	11.3
NNE	.1	.6	.9	.1								1.7	6.9
NE	.2	.6	.5	.4								1.8	7.2
ENE	.2	.6	.9									1.7	6.7
E	.6	.8	.4									1.8	4.8
ESE	.4	.8	.1	.1								1.4	5.8
SE	.5	.5	1.0	.5								2.6	7.8
SSE	1.1	1.2	1.3	2.3	.4	.1						6.4	9.4
S	1.3	2.5	4.3	4.7	1.7	.1						14.7	10.2
SSW	.5	1.0	.8	.6	.4							3.3	8.9
SW	.6	1.9	.9	1.0		.1						4.5	7.5
WSW	.6	2.7	1.1	.4	.4							5.3	7.0
W	1.4	1.9	2.9	1.4	.4	.1						8.2	7.9
WNW	.8	1.0	2.6	1.1	.4		.1					5.9	9.1
NW	.5	2.8	2.9	2.9	.9	.1	.1					10.2	9.6
NNW	.2	1.3	1.6	2.0	.6	.6	.2					6.7	12.3
VARBL													
CALM												7.4	
	10.0	22.5	26.8	24.1	7.1	1.6	.4					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS)

(CONDITION)

ALL (HOURS (L S T))

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.4	4.2	5.8	2.3	.5	.0	.0				15.2	11.4
NNE	.2	.5	.8	.4	.0							2.0	7.9
NE	.2	.4	.6	.3								1.4	7.6
ENE	.1	.4	.6	.2								1.4	7.5
E	.4	.5	.6	.1	.0							1.7	6.4
ESE	.2	.4	.4	.2	.1	.0						1.3	8.3
SE	.4	1.0	1.2	.7	.0							3.4	7.8
SSE	.5	1.4	2.3	1.5	.6	.0						6.4	9.5
S	1.1	3.1	4.2	4.3	1.8	.1						14.6	10.2
SSW	.6	1.2	.9	.8	.2	.0						3.6	8.1
SW	.7	1.4	.8	.5	.1	.0						3.4	6.8
WSW	.5	1.5	.9	.7	.1	.0						3.9	7.7
W	1.1	2.4	2.7	1.7	.5	.3	.0					8.7	8.9
WNW	.7	1.7	2.6	1.7	.7	.2	.0					7.7	9.7
NW	.7	2.4	2.4	2.2	.5	.2	.0					8.6	9.3
NNW	.7	1.7	2.5	2.7	1.2	.4	.1					9.3	11.0
VARBL													
CALM												6.4	
	9.1	22.6	27.8	23.8	8.2	1.8	.2	.0				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 7434

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) ALL (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.7	4.2	4.5	1.5	.5	.1	.0				14.5	12.9
NNE	.4	.9	1.2	.7	.1	.0	.0					3.3	8.2
NE	.4	.7	.7	.3	.0	.0		.0				2.1	7.1
ENE	.4	.7	.6	.2	.0	.0	.0					1.9	6.5
E	.6	1.0	.9	.4	.0	.0						2.9	6.7
ESE	.4	.9	.9	.4	.0	.0						2.6	7.2
SE	.5	1.4	1.5	.9	.1	.0	.0					4.5	8.0
SSE	.7	1.7	2.4	2.1	.7	.1	.0					7.7	9.7
S	.9	2.6	3.3	2.8	.9	.2	.0	.0				10.7	9.6
SSW	.6	1.4	1.1	.7	.2	.0	.0	.0				4.1	7.8
SW	.8	1.4	1.0	.5	.1	.0	.0					3.8	6.7
WSW	.7	1.3	.9	.5	.1	.0	.0					3.5	7.4
W	1.2	2.5	2.1	1.5	.4	.1	.0	.0				7.9	8.1
WNW	.8	1.7	2.0	1.7	.4	.2	.1	.0				6.8	9.4
NW	.8	1.8	2.3	1.9	.6	.2	.0	.0				7.6	9.5
NNW	.8	2.0	2.5	2.3	.8	.3	.1	.0				8.7	10.1
VARBL													
CALM												7.3	
	11.0	24.8	27.4	21.3	6.0	1.8	.3	.1				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 87632

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) ALL (MONTH)

INSTRUMENT (CLASS) ALL (HOURS (L S T))

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE, (CONDITION)
AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.7	6.2	10.6	5.3	2.3	.5	.0				28.6	13.5
NNE	.4	1.1	1.9	1.7	.3	.1						5.5	9.6
NE	.3	.8	.9	.8	.1							3.0	8.5
ENE	.4	.9	1.4	.9	.1	.0						3.6	8.5
E	.6	1.3	2.0	.9	.1							5.0	8.0
ESE	.4	1.1	1.5	.8	.2	.0						3.9	8.4
SE	.5	1.2	1.8	1.3	.1	.0						4.9	8.7
SSE	.5	1.4	2.2	2.1	.8	.2						7.1	10.4
S	.6	1.7	2.5	2.7	1.0	.2	.0					8.7	10.5
SSW	.3	.5	.6	.4	.1							2.0	8.2
SW	.2	.4	.1	.1	.0	.0						.9	6.4
WSW	.2	.3	.1	.1		.0						.7	7.0
W	.3	.4	.4	.4	.1		.1	.0				1.6	9.3
WNW	.3	.5	.7	.6	.3	.3	.2	.0				2.9	12.7
NW	.4	.8	1.5	1.4	.8	.4	.1	.0				5.5	12.0
NNW	.5	1.7	2.2	3.2	2.0	1.2	.2	.0				11.0	13.1
VARBL													
CALM												5.1	
	6.9	16.8	26.0	27.9	11.4	4.9	1.0	.1				100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 8972

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

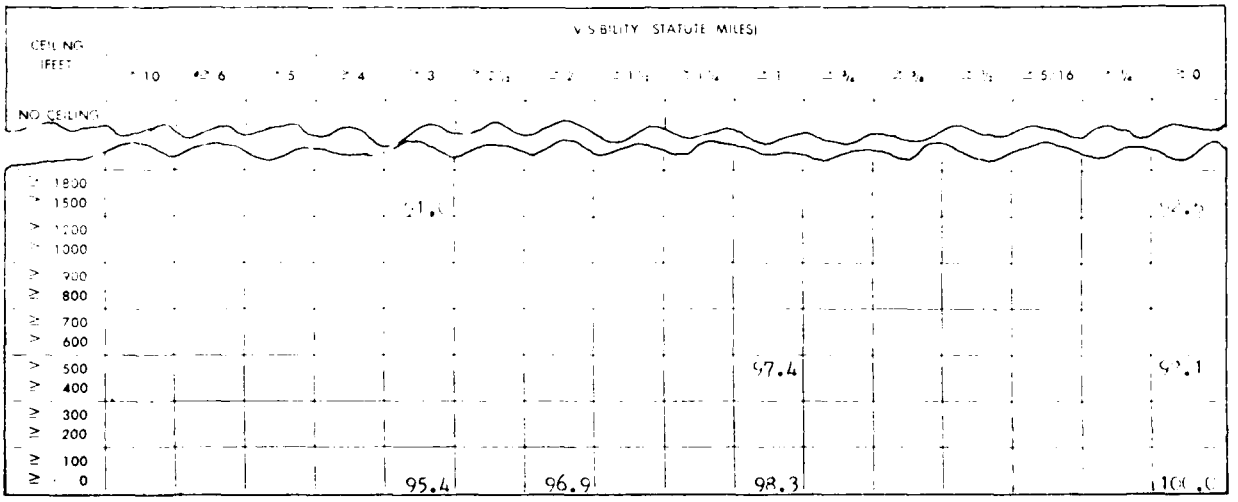
D

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1948. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1948 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION



EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0.
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of $\geq$ 1500 feet with $\geq$ 3 miles, subtracted from 97.4 read from the table at the intersection of $\geq$ 500 feet with $\geq$ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling $\geq$ 500 feet with visibility $\geq$ 1 mile, but < 3 miles; or ceiling $\geq$ 500 feet, but < 1500 feet with visibility $\geq$ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0200

52.1	54.3	54.5	54.8	55.2	55.3	55.8	55.9	56.0	56.4	56.4	56.4	56.7	56.7	56.9	56.9	
53.2	56.3	56.5	56.9	57.3	57.4	57.8	57.9	58.1	58.5	58.5	58.5	58.8	58.8	58.9	58.9	
54.3	56.6	56.9	57.2	57.6	57.7	58.1	58.3	58.4	58.8	58.8	58.8	59.1	59.1	59.2	59.2	
54.4	56.7	57.0	57.3	57.7	57.8	58.3	58.4	58.5	58.9	58.9	58.9	59.2	59.2	59.3	59.3	
55.3	57.7	57.9	58.3	58.7	58.8	59.2	59.3	59.4	59.9	59.9	59.9	60.2	60.2	60.3	60.3	
56.1	58.4	58.6	58.9	59.3	59.4	59.9	60.0	60.1	60.5	60.5	60.5	60.8	60.8	60.9	60.9	
57.3	59.8	60.1	60.5	61.1	61.2	61.6	61.7	61.8	62.2	62.2	62.2	62.6	62.6	62.7	62.7	
57.4	59.9	60.2	60.6	61.2	61.3	61.7	61.8	61.9	62.4	62.4	62.4	62.7	62.7	62.8	62.8	
59.2	62.0	62.6	63.0	63.6	63.8	64.2	64.3	64.4	64.8	64.8	64.8	65.2	65.2	65.3	65.3	
59.9	63.2	63.8	64.5	65.2	65.3	65.7	65.8	65.9	66.3	66.3	66.3	66.7	66.7	66.8	66.8	
61.3	64.6	65.2	65.9	66.8	66.9	67.3	67.4	67.5	68.0	68.0	68.0	68.3	68.3	68.4	68.4	
62.6	66.3	67.4	68.2	69.1	69.3	69.7	69.8	69.9	70.3	70.3	70.3	70.7	70.7	70.8	70.8	
62.6	66.5	67.6	68.4	69.4	69.5	69.9	70.0	70.1	70.6	70.6	70.6	70.9	70.9	71.0	71.0	
64.1	68.6	70.1	71.2	72.7	72.8	73.2	73.4	73.5	73.9	73.9	73.9	74.2	74.2	74.3	74.3	
64.4	69.3	71.0	72.2	73.7	73.8	74.2	74.3	74.4	74.9	74.9	74.9	75.2	75.2	75.3	75.3	
65.6	71.1	73.0	74.2	76.3	76.5	76.9	77.1	77.3	78.0	78.0	78.0	78.3	78.3	78.4	78.4	
66.9	72.5	74.6	75.9	78.4	79.1	79.6	79.9	80.2	80.8	80.8	80.8	81.1	81.1	81.2	81.2	
66.6	74.5	76.9	78.3	80.8	81.4	82.1	82.6	82.8	83.7	84.0	84.0	84.4	84.4	84.5	84.5	
68.9	75.3	77.3	78.7	81.3	82.0	82.6	83.2	83.4	84.3	84.6	84.6	84.9	84.9	85.0	85.0	
70.9	77.2	79.7	81.1	83.9	84.6	85.9	86.4	86.6	87.6	87.9	87.9	88.3	88.5	88.7	88.7	
71.8	78.5	81.4	83.1	86.0	86.6	88.2	88.9	89.1	90.2	90.5	90.5	90.9	91.0	91.3	91.3	
72.2	79.2	82.2	83.8	86.7	87.4	89.0	89.6	90.0	91.0	91.4	91.4	91.8	91.9	92.2	92.2	
72.7	79.7	82.8	84.5	87.4	88.0	89.6	90.4	90.7	91.8	92.1	92.1	92.6	92.7	93.0	93.0	
72.7	79.8	83.0	84.6	87.5	88.1	89.8	90.5	90.8	91.9	92.2	92.2	92.7	92.8	93.1	93.1	
72.9	80.0	83.2	84.8	87.7	88.3	90.0	90.8	91.2	92.6	92.9	92.9	93.3	93.4	93.7	93.7	
73.1	80.3	83.6	85.2	88.2	88.9	90.7	91.8	92.1	93.9	94.2	94.2	94.6	94.7	95.0	95.0	
73.2	80.5	83.8	85.4	88.6	89.2	91.0	92.1	92.4	94.5	94.8	94.8	95.3	95.4	95.7	95.7	
73.2	80.7	84.3	85.9	89.2	89.9	92.0	93.2	93.5	95.6	95.9	95.9	96.3	96.4	96.8	96.8	
73.2	80.7	84.3	85.9	89.2	89.9	92.3	93.5	93.9	96.1	96.4	96.4	97.2	97.3	97.6	97.6	
73.2	80.7	84.3	85.9	89.2	89.9	92.4	93.6	94.0	96.5	96.9	96.9	97.8	98.1	98.5	98.6	
73.2	80.7	84.3	85.9	89.2	89.9	92.4	93.6	94.0	96.7	97.0	97.0	98.1	98.3	99.1	99.2	
73.2	80.7	84.3	85.9	89.2	89.9	92.4	93.6	94.0	96.7	97.0	97.0	98.1	98.3	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS 927

USAF ETAC [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN 0300-0500

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

48.1	49.9	50.2	50.5	51.1	51.1	51.6	51.9	52.1	52.3	52.6	52.7	53.1	53.1	53.1	53.1
50.5	52.7	53.0	53.3	53.9	54.0	54.5	54.8	54.9	55.2	55.5	55.6	56.0	56.0	56.0	56.0
50.6	52.8	53.1	53.5	54.1	54.2	54.7	55.1	55.2	55.4	55.7	55.8	56.2	56.2	56.2	56.2
50.6	52.8	53.1	53.5	54.1	54.2	54.7	55.1	55.2	55.4	55.7	55.8	56.2	56.2	56.2	56.2
52.0	54.2	54.5	54.9	55.5	55.6	56.1	56.5	56.6	56.8	57.1	57.2	57.6	57.6	57.6	57.6
52.7	54.9	55.3	55.7	56.2	56.3	56.9	57.2	57.3	57.5	57.8	58.0	58.4	58.4	58.4	58.4
54.7	57.0	57.3	57.7	58.3	58.4	58.9	59.4	59.5	59.7	60.0	60.1	60.5	60.5	60.5	60.5
54.9	57.2	57.5	58.1	58.6	58.7	59.2	59.7	59.8	60.0	60.3	60.4	60.9	60.9	60.9	60.9
57.2	59.6	60.1	60.6	61.2	61.3	61.8	62.3	62.4	62.6	62.9	63.0	63.4	63.4	63.4	63.4
58.1	60.5	61.1	61.6	62.3	62.4	63.0	63.5	63.7	63.9	64.2	64.3	64.7	64.7	64.7	64.7
59.4	61.9	62.6	63.1	64.1	64.2	64.8	65.4	65.5	65.7	66.0	66.1	66.6	66.6	66.6	66.6
61.3	64.1	64.8	65.4	66.6	66.8	67.4	68.0	68.1	68.5	68.8	68.9	69.4	69.4	69.4	69.4
61.3	64.1	64.8	65.4	66.6	66.8	67.4	68.0	68.1	68.5	68.8	68.9	69.4	69.4	69.4	69.4
63.0	66.3	67.6	68.5	69.9	70.1	71.1	71.6	71.7	72.2	72.5	72.6	73.0	73.0	73.0	73.0
64.0	67.4	68.7	69.6	71.3	71.5	72.5	73.0	73.1	73.5	74.0	74.1	74.5	74.5	74.5	74.5
64.9	68.7	70.1	71.1	73.2	73.4	74.4	74.9	75.1	75.7	76.1	76.2	76.7	76.7	76.7	76.7
66.3	70.5	72.0	73.2	75.7	76.1	77.3	77.8	78.1	78.7	79.1	79.2	79.7	79.7	79.7	79.7
68.1	72.8	74.5	75.8	78.5	79.0	80.3	80.9	81.1	81.8	82.3	82.4	82.8	82.8	82.8	82.8
68.3	73.0	74.9	76.2	78.9	79.5	81.0	81.5	81.7	82.5	82.9	83.0	83.4	83.4	83.4	83.4
69.7	75.1	77.2	78.6	81.3	81.8	83.9	84.4	84.6	85.5	86.0	86.1	86.6	86.6	86.6	86.6
70.8	76.8	79.0	80.4	83.2	83.8	86.2	86.9	87.2	88.3	88.8	88.9	89.7	89.7	89.7	89.7
71.3	77.6	79.9	81.3	84.2	84.7	87.2	88.0	88.4	89.8	90.3	90.4	91.2	91.4	91.4	91.4
71.3	77.6	79.9	81.4	84.3	84.8	87.3	88.1	88.5	89.9	90.4	90.5	91.3	91.5	91.6	91.6
71.3	77.7	80.0	81.5	84.4	84.9	87.4	88.2	88.6	90.0	90.5	90.6	91.4	91.6	91.7	91.7
71.5	78.2	80.5	82.0	85.1	85.6	88.1	88.8	89.2	91.0	91.5	91.6	92.4	92.6	92.7	92.7
71.8	79.0	81.4	83.2	86.3	86.9	89.4	90.1	90.8	92.7	93.3	93.4	94.5	94.7	94.8	94.8
71.8	79.2	81.6	83.4	86.8	87.3	89.9	90.8	91.4	93.3	94.1	94.2	95.3	95.5	95.6	95.7
71.8	79.4	81.7	83.5	86.9	87.4	90.4	91.5	92.2	94.1	94.9	95.1	96.3	96.6	96.7	96.8
71.8	79.4	81.7	83.5	86.9	87.4	90.4	91.6	92.3	94.2	95.1	95.2	96.8	97.0	97.1	97.2
71.8	79.4	81.7	83.5	86.9	87.4	90.4	91.6	92.3	94.5	95.7	95.9	97.6	97.8	98.3	98.4
71.8	79.5	81.8	83.7	87.0	87.5	90.5	91.7	92.4	94.6	95.8	96.0	98.1	98.3	98.9	99.0
71.8	79.5	81.8	83.7	87.0	87.5	90.5	91.7	92.4	94.6	95.8	96.0	98.1	98.3	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

47.4	48.7	49.2	49.5	50.3	50.4	50.6	50.9	50.9	51.0	51.4	51.4	51.5	51.5	51.5	51.5	
49.4	50.9	51.4	51.6	52.5	52.6	52.8	53.0	53.2	53.3	53.9	53.9	54.0	54.0	54.0	54.0	
49.7	51.2	51.7	51.9	52.9	53.0	53.2	53.4	53.7	53.8	54.3	54.3	54.4	54.4	54.4	54.4	
49.8	51.3	51.8	52.0	53.0	53.1	53.3	53.5	53.8	53.9	54.4	54.4	54.5	54.5	54.5	54.5	
50.6	52.3	52.8	53.0	54.0	54.1	54.3	54.5	54.7	54.8	55.4	55.4	55.5	55.5	55.5	55.5	
51.6	53.2	53.8	54.0	54.9	55.1	55.3	55.5	55.7	55.8	56.3	56.3	56.5	56.5	56.5	56.5	
54.1	55.9	56.5	56.7	57.6	57.7	58.0	58.3	58.5	58.6	59.1	59.1	59.2	59.2	59.2	59.2	
54.4	56.2	56.8	57.0	58.0	58.1	58.3	58.6	58.8	58.9	59.5	59.5	59.6	59.6	59.6	59.6	
55.8	57.7	58.3	58.5	59.5	59.6	59.8	60.1	60.3	60.4	61.0	61.0	61.1	61.1	61.1	61.1	
57.0	59.1	59.7	59.9	60.9	61.0	61.3	61.7	61.9	62.0	62.6	62.6	62.7	62.7	62.7	62.7	
58.9	61.1	61.6	61.8	62.9	63.0	63.3	63.8	64.0	64.2	64.7	64.7	64.8	64.8	64.8	64.8	
60.6	63.0	63.7	64.1	65.5	65.6	66.0	66.5	66.7	66.9	67.4	67.4	67.5	67.5	67.5	67.5	
61.1	63.5	64.2	64.6	66.0	66.1	66.6	67.0	67.2	67.4	68.0	68.0	68.1	68.1	68.1	68.1	
63.5	67.0	68.1	68.5	70.0	70.2	71.5	71.9	72.2	72.4	72.9	72.9	73.0	73.0	73.0	73.0	
64.3	68.1	69.1	69.6	71.2	71.4	72.7	73.1	73.3	73.5	74.1	74.1	74.2	74.2	74.2	74.2	
65.4	69.5	70.8	71.5	73.2	73.4	74.7	75.2	75.4	75.7	76.2	76.2	76.3	76.3	76.3	76.3	
66.6	71.5	72.9	73.8	75.6	76.0	77.5	78.1	78.3	78.6	79.1	79.1	79.2	79.2	79.2	79.2	
68.2	74.4	75.9	77.0	78.9	79.4	81.0	81.6	81.8	82.2	82.7	82.7	82.8	82.8	82.8	82.8	
68.3	74.8	76.3	77.4	79.4	79.9	81.5	82.2	82.4	82.7	83.2	83.2	83.3	83.3	83.3	83.3	
68.5	75.6	77.2	78.4	80.5	81.2	82.9	83.8	84.1	84.4	84.9	84.9	85.2	85.3	85.3	85.3	
69.5	76.8	78.5	79.7	81.8	82.5	84.2	85.4	85.8	86.2	86.8	86.8	87.2	87.3	87.3	87.3	
69.9	77.8	79.6	80.9	83.2	83.9	85.6	86.8	87.2	87.8	88.4	88.4	88.8	89.2	89.4	89.4	
70.1	78.2	79.9	81.2	83.5	84.2	85.9	87.1	87.5	88.4	88.9	88.9	89.4	89.8	89.9	89.9	
70.1	78.3	80.0	81.3	83.7	84.5	86.2	87.6	88.1	89.0	89.8	89.8	90.2	90.6	90.8	90.8	
70.5	78.9	80.9	82.2	85.2	86.0	87.7	89.5	89.9	90.9	91.7	91.7	92.2	92.6	92.7	92.7	
70.6	79.5	81.6	82.9	86.2	87.1	88.8	90.5	91.0	92.3	93.2	93.2	93.8	94.2	94.3	94.3	
70.6	79.6	81.9	83.2	86.7	87.5	89.4	91.1	91.6	92.9	94.4	94.4	95.1	95.5	95.6	95.6	
70.6	79.9	82.3	83.5	87.2	88.2	90.0	91.7	92.3	94.0	95.6	95.6	96.2	96.7	96.8	96.8	
70.6	79.9	82.3	83.5	87.2	88.2	90.1	92.2	92.7	94.4	96.0	96.0	96.7	97.1	97.2	97.2	
70.6	79.9	82.3	83.5	87.2	88.2	90.1	92.2	92.7	94.6	96.5	96.5	97.8	98.3	98.5	98.5	
70.6	79.9	82.3	83.5	87.2	88.2	90.1	92.2	92.7	94.6	96.5	96.5	98.0	98.4	99.0	99.1	
70.6	79.9	82.3	83.5	87.2	88.2	90.1	92.2	92.7	94.6	96.5	96.5	98.0	98.4	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0900-1100

43.5	46.6	47.1	47.7	48.5	48.7	49.7	49.9	50.0	50.4	50.4	50.4	50.5	50.6	50.8	50.8
46.9	50.0	50.5	51.3	52.0	52.4	53.8	54.0	54.1	54.5	54.5	54.5	54.6	54.7	54.9	54.9
47.1	50.3	50.9	51.6	52.4	52.7	54.1	54.3	54.4	54.8	54.8	54.8	54.9	55.1	55.3	55.3
47.3	50.6	51.2	51.9	52.7	53.0	54.4	54.6	54.7	55.2	55.2	55.2	55.3	55.4	55.6	55.6
47.8	51.3	51.8	52.6	53.4	53.8	55.2	55.4	55.5	55.9	55.9	55.9	56.0	56.1	56.3	56.3
48.5	51.9	52.5	53.2	54.1	54.4	55.8	56.0	56.1	56.6	56.6	56.6	56.7	56.8	57.0	57.0
51.6	55.8	56.3	57.1	58.0	58.4	59.9	60.1	60.2	60.6	60.6	60.6	60.8	60.9	61.1	61.1
52.0	56.2	56.8	57.5	58.4	58.8	60.3	60.5	60.6	61.1	61.1	61.1	61.2	61.3	61.5	61.5
53.3	58.6	59.5	60.2	61.1	61.5	63.0	63.3	63.4	63.9	63.9	63.9	64.0	64.1	64.3	64.3
55.4	61.0	61.8	62.7	63.5	64.0	65.5	65.8	65.9	66.3	66.3	66.3	66.5	66.6	66.8	66.8
56.5	62.7	63.5	64.4	65.4	65.8	67.3	67.6	67.7	68.3	68.3	68.3	68.4	68.5	68.7	68.7
57.4	63.9	64.7	65.6	66.7	67.1	68.7	69.0	69.1	69.8	69.8	69.8	69.9	70.0	70.2	70.2
57.8	64.5	65.4	66.3	67.4	67.8	69.5	69.8	69.9	70.5	70.5	70.5	70.6	70.8	71.0	71.0
58.8	66.3	67.5	68.5	69.8	70.2	72.2	72.5	72.6	73.4	73.4	73.4	73.7	73.8	74.0	74.0
60.0	67.8	69.0	70.0	71.4	71.9	73.9	74.4	74.5	75.4	75.4	75.4	75.6	75.7	75.9	75.9
61.3	69.7	71.0	71.8	73.7	74.5	76.6	77.1	77.2	78.1	78.1	78.1	78.3	78.4	78.6	78.6
61.9	70.3	71.6	73.1	75.2	76.3	78.6	79.2	79.4	80.3	80.3	80.3	80.5	80.6	80.9	80.9
63.1	72.3	74.1	75.7	78.1	79.4	82.3	82.9	83.1	84.4	84.5	84.5	84.8	84.9	85.3	85.3
63.4	72.6	74.4	76.0	78.6	79.9	82.9	83.5	83.8	85.1	85.2	85.2	85.5	85.6	85.9	85.9
63.7	72.8	74.7	76.5	79.2	81.0	84.0	84.7	84.9	86.5	86.6	86.6	86.9	87.0	87.3	87.3
64.8	74.2	76.3	78.2	81.1	82.9	85.9	86.7	86.9	88.5	88.6	88.6	89.0	89.1	89.5	89.5
64.9	74.7	77.0	78.8	81.7	83.5	86.7	87.6	87.8	89.6	89.9	89.9	90.4	90.5	90.9	90.9
65.3	75.5	77.7	79.6	82.8	84.8	88.4	89.4	89.6	91.3	91.6	91.8	92.4	92.5	92.8	92.8
65.7	75.9	78.2	80.0	83.3	85.5	89.4	90.3	90.5	92.4	92.8	93.1	93.7	93.8	94.1	94.1
65.9	76.2	78.6	80.5	84.1	86.3	90.2	91.2	91.4	93.2	93.7	94.0	94.6	94.7	95.1	95.1
65.9	76.3	78.7	80.6	84.2	86.5	90.3	91.3	91.5	93.7	94.1	94.4	95.1	95.2	95.5	95.5
65.9	76.3	78.8	80.8	84.4	86.7	90.6	91.8	92.0	94.3	94.8	95.2	96.2	96.3	96.7	96.8
65.9	76.3	78.8	80.8	84.4	86.8	90.8	92.0	92.3	94.5	95.2	95.5	96.6	96.7	97.1	97.1
65.9	76.3	78.8	80.8	84.4	86.8	90.9	92.2	92.4	94.6	95.3	95.6	96.7	96.8	97.2	97.3
65.9	76.3	78.8	80.8	84.4	86.8	91.0	92.3	92.5	94.7	95.4	95.7	97.0	97.1	97.8	98.2
65.9	76.3	78.8	80.8	84.4	86.8	91.0	92.3	92.5	94.7	95.4	95.7	97.0	97.1	98.4	99.2
65.9	76.3	78.8	80.8	84.4	86.8	91.0	92.3	92.5	94.7	95.4	95.7	97.0	97.1	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JA

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

42.0	46.8	48.0	49.4	51.3	51.4	52.4	52.7	52.9	53.0	53.2	53.2	53.3	53.3	53.3	53.3
45.8	51.3	52.7	54.3	56.2	56.5	57.4	57.7	58.0	58.1	58.4	58.4	58.5	58.5	58.5	58.5
45.9	51.5	52.9	54.7	56.7	56.9	57.8	58.2	58.4	58.5	58.8	58.8	58.9	58.9	58.9	58.9
45.9	51.5	52.9	54.7	56.7	56.9	57.8	58.2	58.4	58.5	58.8	58.8	58.9	58.9	58.9	58.9
46.5	52.0	53.4	55.3	57.2	57.4	58.4	58.7	58.9	59.0	59.4	59.4	59.5	59.5	59.5	59.5
47.2	52.8	54.3	56.1	58.1	58.3	59.2	59.6	59.8	59.9	60.2	60.2	60.3	60.3	60.3	60.3
50.2	57.1	58.8	60.6	62.6	62.9	63.9	64.2	64.4	64.5	64.8	64.8	64.9	64.9	64.9	64.9
50.4	57.4	59.1	61.0	62.9	63.2	64.2	64.5	64.7	64.8	65.2	65.2	65.3	65.3	65.3	65.3
52.7	60.0	61.8	64.0	65.9	66.2	67.2	67.7	68.0	68.1	68.4	68.4	68.5	68.5	68.5	68.5
54.1	61.9	63.9	66.0	68.1	68.4	69.4	69.9	70.2	70.4	70.8	70.8	70.9	71.0	71.0	71.0
54.9	63.1	65.4	67.7	69.9	70.2	71.2	71.7	72.0	72.3	72.6	72.6	72.7	72.8	72.8	72.8
55.7	64.1	66.3	68.7	70.9	71.3	72.4	72.9	73.2	73.4	73.8	73.8	73.9	74.0	74.0	74.0
55.7	64.1	66.3	68.8	71.0	71.4	72.5	73.0	73.3	73.5	73.9	73.9	74.0	74.1	74.1	74.1
56.5	65.1	67.6	70.2	73.0	73.4	74.7	75.3	75.6	75.9	76.3	76.3	76.5	76.6	76.6	76.6
57.1	66.1	68.8	71.4	74.2	74.7	76.2	76.8	77.1	77.4	77.8	77.8	78.0	78.1	78.1	78.1
57.4	66.8	69.6	72.2	75.1	75.6	77.1	77.6	78.0	78.3	78.7	78.7	78.8	78.9	78.9	78.9
58.1	68.0	71.0	73.7	76.9	77.6	79.2	79.8	80.1	80.5	81.0	81.0	81.3	81.4	81.4	81.4
58.8	69.6	72.9	75.8	79.2	80.2	82.0	82.8	83.1	83.8	84.6	84.6	85.1	85.2	85.2	85.2
58.9	69.9	73.2	76.1	79.6	80.9	82.7	83.4	83.8	84.4	85.3	85.3	85.7	85.8	85.8	85.8
59.4	70.9	74.3	77.4	80.9	82.2	84.1	84.9	85.4	86.1	87.3	87.3	87.8	88.0	88.0	88.0
60.5	72.5	76.2	79.5	83.1	84.4	86.6	87.5	88.1	88.8	90.1	90.1	90.6	90.8	90.8	90.8
60.8	72.9	76.8	80.3	84.0	85.4	87.8	88.9	89.5	90.2	91.6	91.7	92.5	92.6	92.7	92.7
60.9	73.0	76.9	80.6	84.4	86.0	88.5	89.6	90.1	90.9	92.3	92.4	93.1	93.2	93.3	93.3
60.9	73.1	77.2	81.1	84.9	86.7	89.6	90.6	91.2	91.9	93.3	93.4	94.4	94.5	94.6	94.6
60.9	73.4	77.6	81.7	85.6	87.3	90.2	91.3	91.8	92.6	94.0	94.1	95.1	95.2	95.3	95.3
61.1	73.7	77.8	81.9	85.9	87.6	90.5	91.6	92.2	93.2	94.8	95.1	96.2	96.3	96.5	96.5
61.1	73.8	78.0	82.0	86.0	88.0	90.9	91.9	92.5	93.5	95.2	95.4	96.7	96.9	97.2	97.3
61.1	73.8	78.0	82.0	86.2	88.2	91.1	92.2	92.7	93.8	95.4	95.6	96.9	97.1	97.4	97.5
61.1	73.8	78.0	82.0	86.2	88.2	91.3	92.4	92.9	94.0	95.6	95.8	97.1	97.3	97.6	98.0
61.1	73.8	78.0	82.0	86.2	88.2	91.3	92.4	92.9	94.0	95.6	95.8	97.4	97.6	98.1	98.6
61.1	73.8	78.0	82.0	86.2	88.2	91.3	92.4	92.9	94.0	95.6	95.8	97.4	97.6	98.3	99.5
61.1	73.8	78.0	82.0	86.2	88.2	91.3	92.4	92.9	94.0	95.6	95.8	97.4	97.6	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

43.2	48.8	49.8	50.4	51.4	51.5	51.7	51.8	52.0	52.4	52.5	52.5	52.6	52.6	52.7	52.8		
45.8	51.8	53.1	54.0	55.2	55.3	55.6	55.7	55.9	56.2	56.5	56.5	56.6	56.6	56.7	56.8		
45.9	51.9	53.2	54.2	55.4	55.5	55.8	55.9	56.1	56.5	56.7	56.7	56.8	56.8	56.9	57.0		
46.1	52.2	53.4	54.4	55.6	55.7	56.0	56.1	56.3	56.7	56.9	56.9	57.0	57.0	57.1	57.2		
46.9	53.0	54.4	55.5	56.7	56.8	57.1	57.2	57.4	57.7	58.0	58.0	58.1	58.1	58.2	58.3		
47.4	53.7	55.1	56.2	57.4	57.5	57.8	58.0	58.2	58.5	58.7	58.7	58.8	58.8	58.9	59.0		
50.1	57.4	59.4	60.6	61.9	62.0	62.4	62.5	62.7	63.0	63.2	63.2	63.3	63.3	63.4	63.5		
50.4	58.1	60.1	61.4	62.8	62.9	63.4	63.5	63.8	64.1	64.3	64.3	64.4	64.4	64.5	64.6		
53.4	62.2	64.3	65.8	67.2	67.3	67.8	68.0	68.2	68.5	68.7	68.7	68.8	68.8	68.9	69.0		
54.7	63.9	66.0	67.6	69.0	69.1	69.8	70.2	70.4	70.9	71.1	71.1	71.3	71.3	71.4	71.5		
56.3	65.6	67.7	69.4	70.9	71.0	71.6	72.0	72.3	72.7	72.9	72.9	73.1	73.1	73.2	73.3		
57.1	66.7	69.0	70.6	72.3	72.5	73.1	73.5	73.8	74.2	74.4	74.4	74.6	74.6	74.7	74.8		
57.1	66.7	69.0	70.6	72.3	72.5	73.1	73.5	73.8	74.2	74.4	74.4	74.6	74.6	74.7	74.8		
58.0	68.3	70.6	72.7	74.7	75.2	76.2	76.8	77.0	77.6	77.8	77.8	78.1	78.1	78.2	78.3		
58.2	68.5	70.9	73.0	75.1	75.5	76.6	77.1	77.3	78.0	78.2	78.2	78.4	78.4	78.5	78.6		
59.1	69.7	72.2	74.3	76.6	77.0	78.4	79.0	79.2	79.9	80.1	80.1	80.3	80.3	80.4	80.5		
59.6	70.6	73.1	75.4	77.6	78.1	79.7	80.5	80.8	81.5	81.7	81.7	82.0	82.0	82.2	82.3		
60.6	71.9	74.4	77.1	79.5	80.1	81.8	82.9	83.1	84.1	84.3	84.3	84.6	84.6	84.7	84.8		
61.1	72.6	75.2	77.8	80.3	81.0	82.7	83.8	84.0	84.9	85.2	85.2	85.5	85.5	85.6	85.7		
61.6	73.7	76.3	79.5	82.6	83.4	85.3	86.5	86.7	87.7	88.1	88.1	88.4	88.4	88.5	88.6		
62.2	74.8	77.6	81.0	84.2	85.4	87.2	88.4	88.6	89.9	90.2	90.5	90.9	90.9	91.0	91.1		
62.5	75.4	78.2	81.9	85.2	86.5	88.6	89.8	90.0	91.4	91.8	92.2	92.5	92.5	92.8	92.9		
62.5	75.4	78.2	82.2	85.4	86.7	88.9	90.1	90.3	91.7	92.2	92.5	92.8	92.8	93.1	93.2		
62.5	75.7	78.8	82.8	86.0	87.3	89.6	90.9	91.1	92.8	93.4	93.8	94.1	94.1	94.4	94.5		
62.5	75.8	79.0	83.3	86.6	87.8	90.1	91.4	91.6	93.3	94.0	94.3	94.6	94.6	94.9	95.1		
62.5	76.0	79.2	83.8	87.0	88.3	91.0	92.5	92.8	94.6	95.4	95.9	96.5	96.5	96.8	96.9		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.7	93.0	95.1	95.8	96.3	96.9	97.0	97.6	97.7		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.8	93.1	95.2	96.0	96.7	97.2	97.3	98.0	98.1		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.8	93.1	95.2	96.2	96.9	97.4	97.5	98.2	98.5		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.8	93.1	95.2	96.2	96.9	97.5	97.6	98.4	99.0		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.8	93.1	95.2	96.2	96.9	97.5	97.6	98.4	99.4		
62.5	76.0	79.2	83.8	87.2	88.5	91.2	92.8	93.1	95.2	96.2	96.9	97.5	97.6	98.4	100.0		

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING (HUNDREDS OF FEET)	VISIBILITY (STATUTE MILES)															
	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥
	46.3	48.7	49.3	49.0	49.4	49.4	49.6	49.8	49.9	50.1	50.1	50.1	50.1	50.3	50.3	50.3
	48.6	51.1	51.8	51.9	52.3	52.3	52.5	52.7	52.8	53.0	53.0	53.4	53.0	53.2	53.2	53.2
	48.9	51.4	52.2	52.3	52.6	52.6	52.8	53.0	53.1	53.3	53.3	53.3	53.3	53.5	53.5	53.5
	49.0	51.5	52.3	52.4	52.7	52.7	52.9	53.1	53.2	53.4	53.4	53.4	53.4	53.7	53.7	53.7
	49.4	51.8	52.6	52.7	53.0	53.0	53.2	53.4	53.5	53.8	53.8	53.8	53.8	54.0	54.0	54.0
	50.9	53.4	54.2	54.3	54.6	54.6	54.8	55.1	55.2	55.4	55.4	55.4	55.4	55.6	55.6	55.6
	53.8	56.7	57.8	58.2	58.5	58.5	58.7	58.9	59.0	59.2	59.2	59.2	59.2	59.5	59.5	59.5
	54.9	58.0	59.1	59.7	60.0	60.0	60.5	60.8	60.9	61.1	61.1	61.1	61.1	61.3	61.3	61.3
	57.5	60.9	62.4	62.9	63.4	63.4	64.0	64.2	64.3	64.5	64.5	64.5	64.5	64.7	64.7	64.7
	58.7	62.2	63.7	64.2	64.8	64.8	65.5	65.7	65.8	66.0	66.0	66.0	66.0	66.2	66.2	66.2
	60.4	64.1	65.7	66.2	67.0	67.0	67.6	67.8	68.0	68.2	68.2	68.2	68.2	68.4	68.4	68.4
	61.5	65.5	67.5	68.4	69.7	69.7	70.3	70.8	70.9	71.1	71.1	71.1	71.1	71.3	71.3	71.3
	61.6	65.7	67.7	68.6	70.1	70.1	70.8	71.2	71.3	71.5	71.5	71.5	71.5	71.7	71.7	71.7
	63.3	68.0	70.1	71.4	73.0	73.1	74.3	75.1	75.2	75.6	75.6	75.6	75.6	75.8	75.8	75.8
	63.8	68.4	70.6	71.9	73.5	73.7	74.9	75.7	75.8	76.2	76.2	76.2	76.2	76.5	76.5	76.5
	64.7	69.6	72.0	73.5	75.5	75.9	77.5	78.3	78.4	78.8	78.8	78.8	78.8	79.0	79.0	79.0
	65.4	70.5	73.4	74.9	77.4	78.1	79.7	80.4	80.5	81.1	81.1	81.1	81.1	81.3	81.3	81.3
	66.8	72.6	75.7	77.3	79.8	80.3	82.0	83.2	83.3	84.1	84.1	84.1	84.1	84.3	84.3	84.3
	67.5	73.4	76.7	78.4	80.9	81.4	83.2	84.5	84.6	85.4	85.4	85.4	85.4	85.6	85.6	85.6
	68.2	74.4	78.1	80.0	82.8	83.3	85.6	87.0	87.1	88.0	88.0	88.0	88.0	88.2	88.2	88.2
	69.0	76.1	79.8	82.0	85.2	85.7	88.3	89.8	89.9	91.1	91.3	91.3	91.3	91.6	91.6	91.6
	69.7	77.1	80.9	83.1	86.7	87.2	89.9	91.6	91.7	93.0	93.2	93.2	93.2	93.7	93.8	93.8
	69.8	77.2	81.0	83.3	86.9	87.6	90.3	92.2	92.4	93.8	94.0	94.0	94.0	94.4	94.5	94.5
	70.0	77.7	81.6	84.1	87.6	88.4	91.1	92.9	93.1	94.8	95.1	95.1	95.2	95.6	95.7	95.7
	70.0	77.7	81.6	84.2	87.8	88.6	91.5	93.3	93.5	95.3	95.5	95.5	95.6	96.0	96.1	96.1
	70.0	77.7	82.0	84.6	88.3	89.1	92.0	94.0	94.2	95.9	96.1	96.1	96.2	96.7	96.8	96.8
	70.0	77.7	82.0	84.7	88.4	89.2	92.2	94.1	94.3	96.0	96.2	96.2	96.3	96.9	97.0	97.0
	70.1	77.8	82.2	84.8	88.5	89.4	92.5	94.4	94.7	96.6	96.9	96.9	97.0	97.5	97.6	97.6
	70.1	77.8	82.2	84.8	88.5	89.4	92.6	94.5	95.1	97.0	97.3	97.3	97.5	98.1	98.4	98.4
	70.1	77.8	82.2	84.8	88.5	89.4	92.6	94.5	95.2	97.1	97.4	97.4	97.6	98.2	98.8	98.8
	70.1	77.8	82.2	84.8	88.5	89.4	92.6	94.5	95.2	97.1	97.4	97.4	97.6	98.2	98.8	99.4
	70.1	77.8	82.2	84.8	88.5	89.4	92.6	94.5	95.2	97.1	97.4	97.4	97.6	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

49.1	52.2	52.7	53.0	53.5	53.6	53.7	53.9	54.1	54.1	54.3	54.3	54.3	54.4	54.4	54.4	
50.7	54.0	54.8	55.0	55.5	55.7	55.8	56.0	56.2	56.2	56.3	56.3	56.5	56.6	56.6	56.6	
51.1	54.5	55.2	55.4	56.0	56.1	56.2	56.4	56.6	56.6	56.7	56.7	56.9	57.1	57.1	57.1	
51.1	54.5	55.2	55.4	56.0	56.1	56.2	56.4	56.6	56.6	56.7	56.7	56.9	57.1	57.1	57.1	
51.7	55.0	55.8	56.0	56.5	56.6	56.7	56.9	57.2	57.2	57.3	57.3	57.5	57.6	57.6	57.6	
52.5	55.9	56.6	56.8	57.4	57.5	57.6	57.8	58.0	58.0	58.1	58.1	58.3	58.4	58.4	58.4	
54.9	58.2	59.4	59.7	60.4	60.5	60.6	60.8	61.0	61.0	61.1	61.1	61.4	61.5	61.5	61.5	
55.8	59.2	60.5	60.8	61.5	61.6	61.7	61.9	62.1	62.1	62.2	62.2	62.4	62.5	62.5	62.5	
57.2	61.0	62.4	62.8	63.4	63.5	63.6	63.8	64.0	64.0	64.2	64.2	64.4	64.5	64.5	64.5	
58.2	62.2	63.6	64.0	64.7	64.8	64.9	65.1	65.3	65.3	65.4	65.4	65.7	65.8	65.8	65.8	
59.4	63.8	65.0	65.4	66.3	66.4	66.5	66.7	67.0	67.0	67.1	67.1	67.3	67.4	67.4	67.4	
61.0	65.9	67.7	68.5	69.5	69.6	69.8	70.0	70.2	70.3	70.4	70.4	70.6	70.7	70.7	70.7	
61.5	66.4	68.4	69.1	70.3	70.4	70.5	70.7	70.9	71.0	71.2	71.2	71.4	71.5	71.5	71.5	
63.5	68.9	71.0	72.0	74.1	74.4	74.7	75.0	75.2	75.3	75.5	75.5	75.7	75.8	75.8	75.8	
63.9	69.3	71.5	72.4	74.8	75.1	75.5	75.8	76.0	76.1	76.2	76.2	76.4	76.5	76.5	76.5	
64.4	70.2	72.4	73.5	76.3	76.6	77.0	77.4	77.6	77.8	77.9	77.9	78.1	78.3	78.3	78.3	
64.9	71.5	73.7	74.9	78.0	78.8	79.2	79.7	79.9	80.2	80.3	80.3	80.5	80.6	80.6	80.6	
67.6	74.6	77.1	78.3	81.4	82.2	82.7	83.3	83.5	84.1	84.2	84.2	84.4	84.5	84.5	84.5	
68.0	75.0	77.5	78.7	81.8	82.7	83.1	83.7	84.0	84.5	84.6	84.6	84.8	84.9	84.9	84.9	
69.1	76.6	79.8	81.1	84.3	85.1	86.0	86.7	86.9	87.5	87.6	87.6	87.8	87.9	88.1	88.2	
69.6	77.5	80.9	82.6	86.0	86.9	88.3	89.2	89.5	90.2	90.4	90.4	90.7	90.9	91.0	91.1	
70.0	78.3	81.8	83.4	87.1	88.1	89.5	90.7	91.0	91.7	91.9	91.9	92.4	92.5	92.6	92.7	
70.2	78.5	82.1	83.7	87.5	88.5	89.9	91.3	91.5	92.2	92.5	92.5	92.9	93.0	93.1	93.2	
70.5	78.8	82.6	84.2	87.9	88.9	90.3	91.8	92.0	92.8	93.0	93.0	93.4	93.5	93.6	93.8	
70.7	79.1	83.0	84.7	88.5	89.5	90.9	92.5	92.7	93.4	93.6	93.6	94.1	94.2	94.3	94.4	
70.9	79.4	83.3	85.0	88.9	89.9	91.5	93.2	93.5	94.5	94.7	94.7	95.2	95.3	95.4	95.5	
71.0	79.7	83.5	85.4	89.2	90.3	92.2	94.1	94.4	95.6	95.8	95.8	96.2	96.4	96.6	96.7	
71.2	79.9	83.7	85.6	89.7	90.7	92.8	94.6	94.9	96.2	96.4	96.4	96.9	97.1	97.2	97.3	
71.2	80.0	83.9	85.8	90.0	91.1	93.1	94.9	95.3	96.7	96.9	96.9	97.5	97.7	97.8	98.0	
71.2	80.0	83.9	85.8	90.0	91.1	93.1	94.9	95.4	97.1	97.3	97.3	98.1	98.3	98.6	99.0	
71.2	80.0	83.9	85.8	90.0	91.1	93.1	94.9	95.4	97.2	97.4	97.4	98.2	98.4	98.7	99.7	
71.2	80.0	83.9	85.8	90.0	91.1	93.1	94.9	95.4	97.2	97.4	97.4	98.2	98.4	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

46.5	49.5	50.1	50.5	51.3	51.4	51.9	52.1	52.2	52.5	52.6	52.6	52.8	52.8	52.9	52.9	
49.0	52.3	53.0	53.5	54.4	54.5	55.0	55.2	55.4	55.6	55.8	55.8	56.0	56.1	56.1	56.1	
49.2	52.5	53.3	53.9	54.7	54.8	55.4	55.6	55.7	56.0	56.1	56.2	56.3	56.4	56.4	56.5	
49.3	52.6	53.4	54.0	54.8	54.9	55.5	55.7	55.8	56.1	56.3	56.3	56.4	56.5	56.5	56.6	
50.0	53.4	54.2	54.8	55.6	55.8	56.3	56.5	56.7	56.9	57.1	57.1	57.3	57.3	57.4	57.4	
50.8	54.3	55.0	55.7	56.5	56.6	57.2	57.4	57.5	57.8	58.0	58.0	58.1	58.2	58.3	58.3	
53.3	57.2	58.2	58.9	59.8	60.0	60.5	60.7	60.9	61.1	61.3	61.3	61.5	61.6	61.6	61.6	
53.8	57.8	58.8	59.5	60.4	60.6	61.2	61.4	61.6	61.8	62.0	62.0	62.2	62.2	62.3	62.3	
55.8	60.2	61.4	62.2	63.2	63.3	63.9	64.2	64.4	64.6	64.8	64.8	65.0	65.0	65.1	65.1	
57.0	61.8	62.9	63.8	64.8	65.0	65.6	66.0	66.2	66.4	66.6	66.6	66.8	66.9	66.9	66.9	
58.4	63.3	64.6	65.5	66.6	66.8	67.5	67.8	68.0	68.3	68.5	68.5	68.7	68.7	68.8	68.8	
59.7	64.9	66.4	67.4	68.8	69.0	69.7	70.1	70.2	70.6	70.8	70.8	71.0	71.0	71.1	71.1	
59.8	65.2	66.7	67.7	69.1	69.3	70.0	70.4	70.6	70.9	71.1	71.1	71.3	71.4	71.4	71.4	
61.3	67.3	69.1	70.4	72.1	72.4	73.5	73.9	74.1	74.5	74.7	74.8	75.0	75.0	75.1	75.1	
62.0	68.1	70.0	71.3	73.1	73.5	74.6	75.0	75.2	75.6	75.8	75.9	76.1	76.1	76.2	76.2	
62.9	69.4	71.4	72.8	75.0	75.4	76.6	77.1	77.3	77.8	78.0	78.0	78.2	78.3	78.3	78.3	
63.7	70.7	72.8	74.4	76.9	77.5	78.9	79.4	79.6	80.2	80.4	80.4	80.7	80.8	80.8	80.8	
65.2	72.8	75.2	76.9	79.5	80.3	81.8	82.5	82.7	83.5	83.8	83.8	84.1	84.2	84.3	84.3	
65.6	73.3	75.7	77.4	80.1	80.9	82.5	83.2	83.4	84.2	84.5	84.5	84.8	84.9	85.0	85.0	
66.4	74.5	77.2	79.1	81.9	82.8	84.7	85.5	85.8	86.7	87.0	87.1	87.4	87.5	87.6	87.6	
67.3	75.9	78.7	80.8	83.8	84.8	86.9	87.8	88.1	89.1	89.6	89.6	90.0	90.2	90.3	90.3	
67.6	76.6	79.5	81.7	84.8	85.8	88.0	89.1	89.4	90.6	91.1	91.1	91.6	91.8	92.0	92.0	
67.8	76.9	79.8	82.1	85.3	86.3	88.6	89.8	90.1	91.2	91.7	91.8	92.3	92.5	92.7	92.7	
68.0	77.1	80.2	82.4	85.7	86.8	89.2	90.4	90.7	92.0	92.5	92.6	93.1	93.3	93.5	93.5	
68.1	77.4	80.6	82.9	86.3	87.4	89.8	91.1	91.4	92.8	93.4	93.5	94.0	94.2	94.4	94.4	
68.2	77.7	81.0	83.4	86.9	88.0	90.5	91.9	92.3	93.8	94.5	94.6	95.3	95.4	95.6	95.7	
68.3	77.9	81.1	83.6	87.2	88.3	90.9	92.3	92.7	94.4	95.1	95.3	96.0	96.2	96.5	96.6	
68.3	78.0	81.3	83.7	87.4	88.6	91.3	92.8	93.2	95.0	95.8	96.0	96.7	96.9	97.2	97.2	
68.3	78.0	81.3	83.8	87.5	88.7	91.5	93.0	93.4	95.3	96.1	96.3	97.1	97.4	97.6	97.8	
68.3	78.0	81.3	83.8	87.5	88.7	91.5	93.0	93.5	95.5	96.4	96.5	97.6	97.9	98.4	98.6	
68.3	78.0	81.3	83.8	87.5	88.7	91.5	93.0	93.5	95.5	96.4	96.6	97.7	98.0	98.7	99.3	
68.3	78.0	81.3	83.8	87.5	88.7	91.5	93.0	93.5	95.5	96.4	96.6	97.7	98.0	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 7936

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0200

47.3	51.1	51.1	51.4	52.2	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.8
48.6	52.5	52.5	52.8	53.7	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.3
48.6	52.6	52.6	53.0	53.8	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.4
48.7	52.7	52.7	53.1	53.9	54.0	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.5
49.6	53.9	53.9	54.3	55.1	55.2	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.7
50.5	54.7	54.7	55.1	55.9	56.0	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.5
54.0	58.5	58.9	59.2	60.0	60.2	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.6
55.1	59.7	60.2	60.5	61.3	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.9
56.7	61.3	62.2	62.5	63.5	63.6	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	64.1
57.2	61.9	62.8	63.1	64.1	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.7
58.0	63.0	63.8	64.2	65.2	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.8
60.2	65.2	66.1	66.4	67.5	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.6
60.8	66.0	66.8	67.1	68.2	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.3
62.9	68.8	69.7	70.2	71.6	72.3	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	73.0
63.9	70.3	71.4	72.1	73.5	74.2	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.9
65.7	73.2	74.5	75.2	76.7	77.5	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.4
66.9	75.5	77.0	77.8	79.8	80.6	80.9	81.3	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	82.0
69.6	79.1	81.0	82.3	84.6	85.5	85.9	86.9	87.2	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.7
69.9	79.3	81.2	82.5	85.0	85.8	86.3	87.2	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	88.1
70.4	79.9	81.8	83.2	85.9	86.8	87.2	88.5	89.0	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.7
70.8	80.3	82.3	83.7	86.4	87.5	88.2	89.7	90.2	90.4	90.5	90.7	90.8	90.8	90.8	90.8	91.0
71.4	81.1	83.3	85.0	87.7	88.8	89.6	91.3	92.0	92.3	92.6	92.7	93.5	93.5	93.5	93.5	93.7
71.4	81.2	83.6	85.2	87.9	89.0	90.0	91.6	92.4	92.8	93.0	93.1	94.0	94.0	94.0	94.0	94.2
71.7	82.0	84.4	86.1	88.8	89.8	90.9	92.9	94.1	94.7	94.9	95.0	95.9	95.9	95.9	95.9	96.1
71.9	82.3	84.8	86.5	89.2	90.3	91.4	93.4	94.6	95.2	95.4	95.5	96.3	96.3	96.3	96.3	96.6
71.9	82.4	85.0	86.9	89.6	90.8	91.8	93.9	95.0	95.6	95.9	96.0	97.0	97.2	97.2	97.2	97.4
71.9	82.4	85.1	87.0	89.7	90.9	92.0	94.0	95.2	95.9	96.1	96.2	97.3	97.4	97.4	97.4	97.6
71.9	82.5	85.5	87.7	90.5	91.7	92.8	94.9	96.1	96.8	97.0	97.2	98.2	98.3	98.3	98.3	98.6
71.9	82.5	85.5	87.7	90.5	91.7	93.1	95.3	96.7	97.4	97.6	97.8	98.9	99.1	99.3	99.3	99.5
71.9	82.5	85.5	87.8	90.7	91.8	93.4	95.5	96.9	97.6	97.9	98.0	99.2	99.4	99.6	99.6	99.9
71.9	82.5	85.5	87.8	90.7	91.8	93.4	95.5	96.9	97.6	97.9	98.0	99.2	99.5	99.8	100.0	
71.9	82.5	85.5	87.8	90.7	91.8	93.4	95.5	96.9	97.6	97.9	98.0	99.2	99.5	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-0500

46.3	49.5	49.6	49.9	50.9	51.2	51.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.7
48.7	52.0	52.1	52.4	53.8	54.0	54.0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5
48.7	52.0	52.1	52.6	54.0	54.3	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.7
48.7	52.0	52.1	52.6	54.0	54.3	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.7
49.3	52.6	52.7	53.2	54.6	54.8	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3
50.6	54.0	54.1	54.6	56.0	56.3	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7
53.2	57.1	57.2	57.8	59.2	59.5	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9
54.0	58.0	58.2	58.7	60.2	60.4	60.4	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9
55.8	59.9	60.3	61.1	62.6	62.9	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.4
56.4	60.6	61.0	61.8	63.4	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.1
57.8	62.3	62.8	63.8	65.4	65.6	65.6	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.1
59.7	64.4	64.9	66.0	67.6	68.2	68.2	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7
59.9	64.7	65.1	66.2	67.8	68.4	68.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9
62.9	68.0	68.6	69.9	71.6	72.2	72.2	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7
63.7	69.0	70.2	71.6	73.4	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.5
65.2	71.5	72.7	74.5	76.4	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4
67.0	73.8	75.1	77.1	79.1	79.8	79.9	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.6	
68.7	76.5	78.1	80.5	82.9	83.6	84.2	84.6	84.8	84.8	84.8	84.8	84.8	84.9	84.9	85.0	
69.0	76.8	78.5	80.9	83.5	84.2	84.8	85.3	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.7	
69.7	78.1	79.9	82.3	85.1	85.8	86.6	87.4	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.7	
70.3	79.2	81.0	83.3	86.2	86.9	88.2	88.9	89.0	89.0	89.0	89.0	89.0	89.1	89.2	89.2	89.4
70.9	80.7	82.6	85.0	88.1	88.8	90.2	90.9	91.0	91.0	91.1	91.1	91.3	91.4	91.4	91.5	
70.9	80.7	82.6	85.0	88.1	88.8	90.2	91.3	91.5	91.5	91.6	91.6	91.7	91.8	91.8	92.0	
71.3	81.4	83.7	86.1	89.2	90.1	91.6	92.7	92.9	92.9	93.0	93.0	93.4	93.7	93.7	93.9	
71.4	82.4	84.6	87.1	90.3	91.1	92.7	93.9	94.4	94.4	94.6	94.6	94.9	95.3	95.3	95.4	
71.4	82.7	85.3	87.8	91.0	91.8	93.4	94.6	95.2	95.2	95.3	95.5	95.9	96.2	96.2	96.3	
71.5	83.3	85.9	88.4	91.6	92.4	94.1	95.4	96.0	96.1	96.2	96.5	96.8	97.2	97.2	97.3	
71.5	83.3	86.1	88.8	92.0	92.8	94.8	96.1	96.7	96.9	97.0	97.3	97.6	98.0	98.0	98.1	
71.5	83.5	86.2	88.9	92.1	92.9	94.9	96.2	97.0	97.4	97.5	97.8	98.1	98.5	98.7	98.8	
71.5	83.5	86.2	88.9	92.1	92.9	94.9	96.2	97.3	97.6	97.8	98.0	98.3	98.7	99.3	99.5	
71.5	83.5	86.2	88.9	92.1	92.9	94.9	96.2	97.3	97.9	98.1	98.3	98.8	99.2	99.8	100.0	
71.5	83.5	86.2	88.9	92.1	92.9	94.9	96.2	97.3	97.9	98.1	98.3	98.8	99.2	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC [illegible] 0-14-5 [illegible] previous editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-0800

47.3	48.8	49.2	49.2	49.8	49.8	50.0	50.1	50.1	50.2	50.2	50.4	50.4	50.4	50.4	50.4	
48.9	50.9	51.3	51.3	52.0	52.0	52.2	52.4	52.4	52.5	52.5	52.6	52.6	52.6	52.6	52.6	
49.2	51.2	51.5	51.5	52.4	52.4	52.6	52.7	52.7	52.8	52.8	53.0	53.0	53.0	53.0	53.0	
49.3	51.4	51.8	51.8	52.6	52.6	52.8	53.0	53.0	53.1	53.1	53.2	53.2	53.2	53.2	53.2	
49.6	51.8	52.1	52.1	53.0	53.0	53.2	53.3	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	
50.5	52.7	53.2	53.3	54.3	54.3	54.5	54.6	54.6	54.7	54.7	54.8	54.8	54.8	54.8	54.8	
53.0	55.8	56.4	56.5	57.4	57.4	57.7	57.8	57.8	57.9	57.9	58.0	58.0	58.0	58.0	58.0	
53.5	56.4	57.0	57.1	58.0	58.0	58.3	58.4	58.4	58.5	58.5	58.6	58.6	58.6	58.6	58.6	
55.1	57.9	59.0	59.1	60.3	60.3	60.5	60.6	60.6	60.8	60.9	60.9	60.9	60.9	60.9	60.9	
55.9	59.2	60.4	60.6	61.8	61.8	62.1	62.2	62.2	62.3	62.3	62.4	62.4	62.4	62.4	62.4	
56.5	59.9	61.2	61.6	63.0	63.0	63.2	63.4	63.4	63.5	63.5	63.6	63.6	63.6	63.6	63.6	
58.4	62.2	63.5	63.8	65.4	65.6	65.8	66.0	66.0	66.1	66.1	66.2	66.2	66.2	66.2	66.2	
59.3	63.1	64.4	65.0	66.5	66.8	67.0	67.1	67.1	67.3	67.3	67.4	67.4	67.4	67.4	67.4	
61.5	65.8	67.4	68.0	69.6	69.9	70.2	70.3	70.3	70.4	70.4	70.6	70.6	70.6	70.6	70.6	
62.6	67.5	69.3	70.0	71.6	71.9	72.3	72.5	72.5	72.6	72.6	72.7	72.7	72.7	72.7	72.7	
65.0	70.4	72.7	73.6	75.8	76.0	76.5	76.8	77.0	77.1	77.1	77.2	77.2	77.2	77.2	77.2	
67.0	73.0	75.5	76.5	78.6	79.1	79.6	79.9	80.0	80.1	80.1	80.3	80.3	80.3	80.3	80.3	
68.9	75.7	78.5	79.4	81.7	82.5	83.3	83.8	83.9	84.0	84.0	84.2	84.4	84.4	84.4	84.4	
69.0	75.8	78.6	79.6	82.2	83.0	83.9	84.4	84.5	84.8	84.8	84.9	85.1	85.1	85.1	85.1	
70.4	78.0	81.0	81.9	84.6	85.5	86.5	87.1	87.2	87.5	87.5	87.6	87.8	87.8	87.8	87.8	
71.3	79.3	82.3	83.2	86.1	87.0	88.4	89.0	89.1	89.4	89.4	89.5	89.7	89.7	89.7	89.7	
71.3	79.4	82.4	83.3	86.4	87.5	89.2	90.0	90.1	90.3	90.3	90.4	90.7	90.8	90.8	90.8	
71.3	79.4	82.7	83.7	86.8	87.8	89.6	90.3	90.4	90.7	90.7	90.8	91.0	91.1	91.1	91.1	
71.5	79.9	83.2	84.3	87.4	88.4	90.7	91.5	92.0	92.3	92.3	92.4	92.8	93.0	93.0	93.0	
71.6	80.0	83.7	85.0	88.1	89.2	91.5	92.4	93.0	93.4	93.4	93.5	93.9	94.1	94.1	94.1	
71.6	80.5	84.2	85.6	88.7	89.8	92.1	93.0	93.6	94.1	94.2	94.3	94.7	94.9	94.9	94.9	
71.6	80.9	84.9	86.3	89.4	90.5	93.0	94.0	94.7	95.2	95.4	95.5	96.0	96.2	96.2	96.2	
71.6	80.9	84.9	86.4	89.6	91.0	93.9	94.9	95.6	96.5	96.7	96.8	97.3	97.5	97.5	97.5	
71.6	80.9	85.2	86.9	90.1	91.5	94.7	95.7	96.5	97.4	97.8	97.9	98.6	98.8	98.8	98.8	
71.6	80.9	85.2	86.9	90.1	91.5	94.7	95.7	96.5	97.5	97.9	98.0	98.8	99.1	99.1	99.6	
71.6	80.9	85.2	86.9	90.1	91.5	94.7	95.7	96.5	97.5	97.9	98.0	99.1	99.3	99.3	99.9	
71.6	80.9	85.2	86.9	90.1	91.5	94.7	95.7	96.5	97.5	97.9	98.0	99.1	99.3	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 846

SAFETAC FORM 0-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS 0900-1100

44.7	47.5	49.1	49.6	50.6	50.7	50.7	50.9	50.9	51.4	51.4	51.4	51.5	51.7	51.7	51.9	
47.8	50.6	52.1	52.8	53.8	53.9	53.9	54.3	54.4	54.8	54.8	54.8	55.2	55.3	55.3	55.6	
48.2	51.1	52.6	53.4	54.4	54.5	54.5	54.8	55.0	55.4	55.4	55.4	55.8	55.9	55.9	56.1	
48.5	51.3	52.8	53.7	54.6	54.7	54.7	55.1	55.2	55.7	55.7	55.7	56.3	56.1	56.1	56.4	
48.9	52.0	53.5	54.4	55.3	55.4	55.4	55.8	55.9	56.4	56.4	56.4	56.7	56.9	56.9	57.1	
49.8	53.2	54.8	55.7	56.6	56.7	56.7	57.1	57.2	57.7	57.7	57.7	58.0	58.2	58.2	58.4	
51.3	55.3	57.1	58.0	59.0	59.1	59.1	59.5	59.6	60.0	60.0	60.0	60.4	60.5	60.5	60.8	
52.2	56.4	58.2	59.1	60.0	60.2	60.2	60.5	60.6	61.1	61.1	61.1	61.5	61.6	61.6	61.8	
53.4	58.3	60.2	61.1	62.2	62.3	62.3	62.6	62.8	63.2	63.2	63.2	63.6	63.7	63.7	63.9	
54.0	59.5	61.3	62.5	63.6	63.7	63.8	64.3	64.4	64.9	64.9	64.9	65.2	65.4	65.4	65.6	
54.7	60.2	62.1	63.2	64.3	64.4	64.5	65.0	65.1	65.6	65.6	65.6	66.0	66.1	66.1	66.3	
56.6	62.2	64.2	65.7	67.1	67.3	67.8	68.3	68.4	68.9	68.9	68.9	69.3	69.4	69.4	69.6	
57.3	63.0	65.1	66.7	68.1	68.3	68.9	69.4	69.5	70.0	70.0	70.0	70.3	70.4	70.4	70.7	
58.2	65.0	67.3	68.8	70.8	71.0	71.9	72.3	72.5	73.0	73.0	73.0	73.4	73.5	73.5	73.8	
59.6	66.5	68.8	70.4	72.5	72.7	73.9	74.3	74.5	75.1	75.1	75.1	75.4	75.5	75.5	75.8	
61.6	69.3	72.0	73.6	76.1	76.5	77.7	78.3	78.5	79.1	79.1	79.2	79.6	79.7	79.7	79.9	
62.3	70.4	73.4	75.2	78.0	78.5	79.8	80.5	80.9	81.4	81.6	81.7	82.0	82.2	82.2	82.4	
63.1	71.9	75.2	77.2	80.7	81.7	83.2	84.0	84.4	85.2	85.3	85.5	85.9	86.1	86.1	86.3	
63.4	72.3	75.8	77.8	81.3	82.3	83.8	84.6	85.0	85.8	85.9	86.1	86.5	86.6	86.6	86.9	
64.4	74.2	77.9	80.0	83.9	84.9	86.5	87.7	88.1	88.9	89.0	89.1	89.6	89.7	89.7	90.0	
64.7	74.6	78.5	80.6	84.5	85.5	87.4	88.7	89.0	90.2	90.4	90.5	91.0	91.1	91.1	91.4	
65.1	75.3	79.4	81.7	85.7	86.8	88.8	90.1	90.4	91.8	92.2	92.3	92.8	92.9	92.9	93.1	
65.4	75.5	79.8	82.0	86.1	87.1	89.1	90.7	91.0	92.6	92.9	93.0	93.5	93.6	93.6	93.9	
65.5	75.7	79.9	82.2	86.2	87.5	89.6	91.4	92.0	93.5	94.3	94.4	94.9	95.0	95.0	95.3	
65.5	75.7	79.9	82.3	86.5	87.8	90.1	92.0	92.6	94.1	94.9	95.0	95.5	95.6	95.6	95.9	
65.5	75.7	79.9	82.3	86.9	88.2	90.7	92.6	93.3	95.2	96.1	96.2	96.7	96.8	96.8	97.0	
65.5	75.8	80.0	82.4	87.0	88.4	90.9	92.8	93.5	95.5	96.7	96.8	97.3	97.4	97.4	97.6	
65.5	75.8	80.1	82.5	87.1	88.8	91.6	93.6	94.7	96.7	97.9	98.0	98.7	98.8	98.8	99.1	
65.5	75.8	80.1	82.5	87.1	88.8	91.7	93.7	94.9	96.9	98.1	98.2	98.9	99.1	99.1	99.3	
65.5	75.8	80.1	82.5	87.1	88.8	91.7	93.7	94.9	97.0	98.2	98.3	99.3	99.4	99.4	99.6	
65.5	75.8	80.1	82.5	87.1	88.8	91.7	93.7	94.9	97.0	98.2	98.3	99.4	99.5	99.8	100.0	
65.5	75.8	80.1	82.5	87.1	88.8	91.7	93.7	94.9	97.0	98.2	98.3	99.4	99.5	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

42.9	46.8	46.9	47.6	49.4	49.5	49.9	49.9	50.2	50.4	51.1	51.1	51.1	51.1	51.1	51.1
47.5	51.6	52.2	53.0	54.8	55.0	55.3	55.3	55.8	56.1	56.9	56.9	56.9	56.9	56.9	56.9
47.6	51.9	52.4	53.1	55.1	55.1	55.4	55.4	55.9	56.3	57.0	57.0	57.0	57.0	57.0	57.0
47.9	52.2	52.7	53.4	55.3	55.4	55.8	55.8	56.3	56.6	57.3	57.3	57.3	57.3	57.3	57.3
48.3	52.7	53.2	53.9	55.9	56.0	56.4	56.4	56.9	57.2	57.9	57.9	57.9	57.9	57.9	57.9
49.4	54.4	54.8	55.6	57.6	57.7	58.0	58.0	58.5	56.9	59.6	59.6	59.6	59.6	59.6	59.6
51.9	57.3	57.9	58.9	61.0	61.1	61.5	61.5	61.9	62.3	63.0	63.0	63.0	63.0	63.0	63.0
51.9	57.3	57.9	58.9	61.0	61.1	61.5	61.5	61.9	62.3	63.0	63.0	63.0	63.0	63.0	63.0
53.4	59.5	60.2	61.7	64.1	64.2	64.5	64.5	65.0	65.4	66.1	66.1	66.1	66.1	66.1	66.1
54.1	60.5	61.3	62.9	65.5	65.6	66.1	66.1	66.5	56.9	67.6	67.6	67.6	67.6	67.6	67.6
54.6	61.6	62.5	64.4	67.1	67.3	67.7	67.7	68.2	68.6	69.3	69.3	69.3	69.3	69.3	69.3
56.1	63.1	64.2	66.1	69.0	69.1	69.9	69.9	70.3	70.7	71.4	71.4	71.4	71.4	71.4	71.4
56.6	63.7	64.8	66.8	69.7	69.9	70.6	70.6	71.0	71.4	72.1	72.1	72.1	72.1	72.1	72.1
58.4	65.8	67.1	69.4	72.8	73.2	73.9	73.9	74.3	74.9	75.7	75.7	75.7	75.7	75.7	75.7
59.3	66.9	68.2	70.6	74.0	74.3	75.2	75.3	75.8	76.4	77.1	77.1	77.1	77.1	77.1	77.1
60.0	68.6	70.0	72.6	76.7	77.1	77.9	78.0	78.5	79.1	79.8	79.8	79.8	79.8	79.8	79.8
61.0	69.7	71.2	73.9	78.0	78.5	79.7	80.1	80.7	81.4	82.2	82.2	82.2	82.2	82.2	82.2
61.6	71.3	72.8	75.5	79.7	81.0	82.3	83.1	83.8	84.6	85.5	85.5	85.5	85.5	85.5	85.5
61.7	71.5	73.0	75.8	79.9	81.2	82.5	83.3	84.0	84.9	85.7	85.7	85.7	85.7	85.7	85.7
62.9	73.0	75.1	78.3	82.7	84.0	85.3	86.3	87.0	87.9	89.0	89.0	89.0	89.0	89.1	89.1
63.8	74.7	76.8	80.4	84.9	86.2	87.5	88.5	89.2	90.3	91.6	91.6	91.6	91.6	91.7	91.7
64.5	76.0	78.1	81.7	86.4	87.8	89.1	90.3	91.0	92.6	94.2	94.3	94.4	94.4	94.6	94.6
64.7	76.1	78.3	81.8	86.9	88.4	89.8	91.5	92.2	93.7	95.5	95.6	95.7	95.7	95.9	95.9
64.7	76.4	78.6	82.2	87.4	88.9	90.4	92.1	93.0	94.6	96.6	96.8	96.9	96.9	97.0	97.0
64.7	76.4	78.6	82.3	87.7	89.2	90.9	92.6	93.6	95.3	97.3	97.5	97.9	97.9	98.0	98.0
64.7	76.4	78.7	82.6	88.1	89.6	91.5	93.1	94.2	96.0	98.0	98.2	98.6	98.6	98.7	98.7
64.7	76.4	78.7	82.7	88.2	89.7	91.7	93.4	94.4	96.2	98.2	98.5	98.8	98.9	99.1	99.1
64.7	76.5	78.8	82.9	88.3	89.8	92.0	93.6	94.7	96.7	98.8	99.1	99.4	99.5	99.6	99.6
64.7	76.5	78.8	82.9	88.3	89.8	92.0	93.6	94.7	96.7	98.8	99.1	99.4	99.5	99.6	99.6
64.7	76.5	78.8	82.9	88.3	89.8	92.0	93.6	94.7	96.7	98.8	99.1	99.4	99.5	99.6	99.6
64.7	76.5	78.8	82.9	88.3	89.8	92.0	93.6	94.7	96.7	98.8	99.1	99.4	99.5	100.0	100.0
64.7	76.5	78.8	82.9	88.3	89.8	92.0	93.6	94.7	96.7	98.8	99.1	99.4	99.5	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 846

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1720

43.2	44.7	46.5	47.0	47.9	48.0	48.2	48.5	48.5	48.7	48.7	48.7	48.8	48.8	48.8	48.8	
45.7	50.6	52.4	53.1	54.1	54.3	54.5	54.7	54.7	55.2	55.2	55.2	55.3	55.3	55.3	55.3	
46.2	51.1	53.1	53.8	55.0	55.1	55.3	55.6	55.6	56.0	56.0	56.0	56.1	56.1	56.1	56.1	
46.6	51.4	53.4	54.1	55.3	55.4	55.8	56.0	56.1	56.5	56.5	56.5	56.6	56.6	56.6	56.6	
46.9	51.8	53.8	54.5	55.7	55.8	56.1	56.4	56.4	56.9	56.9	56.9	57.0	57.0	57.0	57.0	
49.2	54.1	56.1	56.9	58.0	58.2	58.6	58.9	59.1	59.6	59.6	59.6	59.7	59.7	59.7	59.7	
52.0	57.6	59.7	60.6	62.2	62.3	62.8	63.0	63.2	63.7	63.7	63.7	63.8	63.8	63.8	63.8	
52.4	58.0	60.2	61.1	62.6	62.8	63.2	63.5	63.7	64.2	64.2	64.2	64.3	64.3	64.3	64.3	
53.9	59.8	62.1	63.1	64.8	64.9	65.4	65.6	65.8	66.3	66.3	66.3	66.4	66.4	66.4	66.4	
55.4	61.3	63.6	64.8	66.4	66.5	67.0	67.3	67.5	68.0	68.0	68.0	68.1	68.1	68.1	68.1	
55.9	62.1	64.4	65.7	67.4	67.5	68.0	68.2	68.4	68.9	68.9	68.9	69.0	69.0	69.0	69.0	
56.5	62.9	65.2	66.8	68.4	68.6	69.4	69.7	70.0	70.4	70.4	70.4	70.6	70.6	70.6	70.6	
57.1	63.6	66.[illegible]	67.8	69.7	69.9	70.7	71.0	71.3	71.7	71.7	71.7	71.9	71.9	71.9	71.9	
57.9	65.0	67.8	69.7	71.9	72.0	72.9	73.3	73.5	74.2	74.2	74.2	74.6	74.6	74.6	74.6	
58.3	65.6	68.7	70.6	73.0	73.4	74.3	74.7	74.9	75.7	75.7	75.7	76.0	76.0	76.0	76.0	
59.0	67.4	70.7	72.8	75.0	76.2	77.4	77.8	78.0	78.7	78.7	78.7	79.1	79.1	79.1	79.1	
60.0	68.9	72.8	75.2	78.3	79.1	80.3	80.7	81.0	81.8	81.8	81.8	82.2	82.2	82.2	82.2	
61.3	70.9	75.4	78.0	81.1	82.0	83.2	83.9	84.2	85.0	85.0	85.0	85.5	85.5	85.5	85.5	
61.6	71.5	76.7	78.6	81.7	82.6	83.8	84.5	84.8	85.6	85.6	85.6	86.1	86.1	86.1	86.1	
62.3	73.2	77.8	80.5	83.7	84.8	86.1	87.2	87.5	88.3	88.3	88.3	88.8	88.8	88.9	88.9	
62.8	74.6	79.4	82.3	85.5	86.5	88.2	89.5	89.7	90.8	91.1	91.1	91.6	91.6	91.7	91.7	
63.2	75.5	80.5	83.3	86.9	87.9	89.8	91.1	91.4	92.7	93.0	93.3	93.7	93.7	93.9	93.9	
63.2	75.5	80.5	83.6	87.1	88.5	90.4	91.8	92.1	93.5	94.0	94.0	94.7	94.7	94.8	94.8	
63.6	75.9	80.9	83.9	87.5	88.9	90.8	92.6	92.9	94.3	94.9	94.9	96.0	96.0	96.1	96.1	
63.6	76.1	81.1	84.2	87.7	89.1	91.1	92.9	93.3	94.7	95.3	95.4	96.5	96.5	96.6	96.6	
63.6	76.1	81.1	84.3	87.8	89.2	91.3	93.0	93.6	95.2	95.7	95.9	96.9	96.9	97.2	97.2	
63.6	76.2	81.3	84.5	88.1	89.6	91.8	93.9	94.4	96.0	96.6	96.7	97.8	97.8	98.3	98.5	
63.6	76.2	81.3	84.5	88.1	89.6	91.8	93.9	94.4	96.0	96.6	96.7	98.0	98.0	98.6	98.7	
63.6	76.2	81.3	84.5	88.2	89.7	92.0	94.1	94.7	96.8	97.4	97.6	99.1	99.1	99.6	99.8	
63.6	76.2	81.3	84.5	88.2	89.7	92.0	94.1	94.7	96.8	97.4	97.6	99.1	99.1	99.6	99.8	
63.6	76.2	81.3	84.5	88.2	89.7	92.0	94.1	94.7	96.8	97.4	97.6	99.1	99.1	99.9	100.0	
63.6	76.2	81.3	84.5	88.2	89.7	92.0	94.1	94.7	96.8	97.4	97.6	99.1	99.1	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0800-2000

44.9	49.9	51.2	51.4	52.0	52.0	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
47.8	53.3	54.6	54.8	55.7	55.7	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
48.1	53.7	55.0	55.2	56.0	56.0	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
48.2	53.8	55.1	55.3	56.1	56.1	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
49.2	54.7	56.0	56.3	57.1	57.1	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
50.7	56.3	57.6	57.8	58.7	58.7	59.1	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
55.0	61.2	62.6	62.9	64.2	64.2	64.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
55.3	61.8	63.2	63.5	64.8	64.8	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
57.3	64.7	66.1	66.7	68.0	68.0	68.3	68.8	69.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
58.3	65.6	67.0	67.6	68.9	68.9	69.3	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
59.2	66.5	68.0	68.8	70.1	70.2	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
60.3	67.8	69.7	70.7	72.0	72.1	72.8	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
61.3	69.1	71.2	72.1	73.4	73.5	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
62.4	70.4	72.6	73.5	74.8	74.9	75.7	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
62.9	71.3	73.4	74.5	76.0	76.1	76.8	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
63.9	73.3	75.7	77.2	79.8	80.0	80.7	81.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
65.0	74.6	77.4	79.1	81.9	82.6	83.5	84.4	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
66.3	76.5	79.9	81.6	84.9	85.7	87.0	87.9	88.1	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5
66.4	76.8	80.3	81.9	85.2	86.1	87.4	88.3	88.4	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9
66.9	77.4	80.9	82.6	85.9	87.0	88.5	89.8	90.0	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5
67.6	78.1	81.9	83.7	87.1	88.2	89.8	91.1	91.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4
68.3	79.3	83.5	85.3	88.8	89.8	91.5	92.9	93.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2
68.3	79.4	83.7	85.6	89.1	90.2	91.8	93.3	93.4	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6
68.6	79.7	84.1	85.9	89.5	90.5	92.2	94.0	94.2	95.3	95.6	95.6	95.7	95.7	95.7	95.7	95.7
68.8	80.0	84.4	86.4	90.0	91.0	92.7	94.4	94.7	95.7	96.1	96.1	96.2	96.2	96.2	96.2	96.2
68.8	80.1	84.6	86.6	90.2	91.6	93.3	95.2	95.7	96.8	97.3	97.3	97.4	97.4	97.4	97.4	97.4
68.8	80.3	84.8	86.8	90.4	92.2	94.0	95.9	96.6	97.8	98.3	98.3	98.7	98.7	98.9	98.9	98.9
68.9	80.4	84.9	86.9	90.5	92.3	94.3	96.2	96.9	98.1	98.7	98.7	99.1	99.1	99.3	99.3	99.3
68.9	80.4	85.0	87.1	90.8	92.6	94.6	96.8	97.5	98.8	99.4	99.4	99.8	99.8	100.0	100.0	100.0
68.9	80.4	85.0	87.1	90.8	92.6	94.6	96.8	97.5	98.8	99.4	99.4	99.8	99.8	100.0	100.0	100.0
68.9	80.4	85.0	87.1	90.8	92.6	94.6	96.8	97.5	98.8	99.4	99.4	99.8	99.8	100.0	100.0	100.0
68.9	80.4	85.0	87.1	90.8	92.6	94.6	96.8	97.5	98.8	99.4	99.4	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 846

USAFETAC ... PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2320

47.3	50.8	51.7	51.9	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
49.4	53.2	54.1	54.4	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
49.4	53.2	54.1	54.4	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
49.5	53.3	54.3	54.5	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	
50.1	53.9	54.8	55.1	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
50.9	54.7	55.7	56.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	
56.4	60.9	62.1	62.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	
56.9	61.7	62.9	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
58.6	63.8	65.1	65.6	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
59.5	64.9	66.3	67.0	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	
60.5	66.1	67.5	68.2	69.7	69.7	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	
61.8	67.6	69.1	69.9	71.4	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	
62.8	68.6	70.2	70.9	72.5	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	
64.7	70.9	72.8	73.6	75.5	75.5	75.8	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
66.0	72.6	74.5	75.4	77.7	77.8	78.0	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	
67.6	75.1	77.0	78.1	80.7	80.9	81.2	81.4	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
68.9	77.3	79.4	80.6	83.9	84.0	84.5	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	
70.4	79.8	81.9	83.2	86.9	87.0	87.8	88.2	88.5	88.9	88.9	88.9	88.9	88.9	88.9	88.9	
70.6	79.9	82.1	83.3	87.0	87.1	87.9	88.4	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	
71.0	81.0	83.1	84.4	88.4	88.5	89.4	90.2	90.5	91.0	91.3	91.0	91.0	91.0	91.0	91.0	
71.4	81.4	83.7	85.0	89.2	89.4	90.2	91.1	91.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	
72.2	82.5	84.8	86.2	90.7	90.8	91.7	92.8	93.1	94.3	94.6	94.6	94.7	94.7	94.7	94.7	
72.3	82.7	85.0	86.4	91.0	91.3	92.3	93.5	93.9	95.0	95.3	95.3	95.4	95.4	95.4	95.4	
72.7	83.1	85.5	87.0	91.7	92.0	93.0	94.3	94.8	96.0	96.2	96.3	96.5	96.5	96.5	96.5	
72.7	83.1	85.5	87.1	92.0	92.2	93.3	94.6	95.0	96.2	96.5	96.6	96.8	96.8	96.8	96.8	
72.7	83.1	85.6	87.4	92.3	92.8	94.1	95.4	95.9	97.0	97.3	97.4	97.8	97.8	97.8	97.8	
72.8	83.2	85.7	87.5	92.4	92.9	94.2	95.5	96.0	97.3	97.5	97.6	98.0	98.0	98.0	98.0	
73.0	83.5	86.4	88.2	93.1	93.6	95.0	96.3	96.8	98.2	98.5	98.6	99.1	99.1	99.1	99.1	
73.0	83.5	86.4	88.2	93.1	93.6	95.2	96.8	97.5	98.9	99.2	99.3	99.8	99.8	99.8	99.8	
73.0	83.5	86.4	88.2	93.1	93.6	95.2	96.8	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	
73.0	83.5	86.4	88.2	93.1	93.6	95.2	96.8	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	
73.0	83.5	86.4	88.2	93.1	93.6	95.2	96.8	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

45.1	46.6	49.4	49.8	50.7	50.8	50.9	51.1	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.5	
48.0	51.9	52.7	53.1	54.2	54.2	54.4	54.6	54.7	54.8	54.9	54.9	55.0	55.0	55.0	55.1	
48.3	52.1	52.9	53.4	54.5	54.6	54.7	54.9	55.0	55.2	55.2	55.3	55.3	55.3	55.3	55.4	
48.4	52.3	53.1	53.6	54.7	54.8	54.9	55.1	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.6	
49.0	52.9	53.8	54.2	55.3	55.4	55.6	55.8	55.9	56.0	56.1	56.1	56.2	56.2	56.2	56.3	
50.2	54.3	55.1	55.6	56.8	56.9	57.1	57.3	57.4	57.5	57.6	57.6	57.7	57.7	57.7	57.8	
53.3	58.3	59.1	59.5	60.8	60.9	61.1	61.3	61.4	61.6	61.7	61.7	61.8	61.8	61.8	61.8	
53.9	58.7	59.7	60.3	61.6	61.6	61.8	62.0	62.1	62.3	62.4	62.4	62.5	62.5	62.5	62.6	
55.5	60.7	61.9	62.6	64.1	64.1	64.3	64.6	64.7	64.8	64.9	64.9	65.0	65.0	65.0	65.1	
56.3	61.7	63.0	63.8	65.3	65.4	65.6	65.8	65.9	66.1	66.2	66.2	66.3	66.3	66.3	66.3	
57.2	62.7	64.0	65.0	66.5	66.6	66.9	67.1	67.2	67.4	67.5	67.5	67.5	67.6	67.6	67.6	
58.7	64.4	65.9	66.9	68.6	68.8	69.2	69.5	69.6	69.8	69.9	69.9	69.9	69.9	69.9	70.0	
59.4	65.2	66.7	67.8	69.5	69.8	70.2	70.4	70.6	70.7	70.8	70.8	70.9	70.9	70.9	71.0	
61.1	67.5	69.2	70.4	72.3	72.6	73.1	73.5	73.6	73.9	74.0	74.0	74.1	74.1	74.1	74.2	
62.0	68.8	70.6	71.9	74.0	74.3	74.9	75.2	75.3	75.7	75.7	75.8	75.8	75.9	75.9	75.9	
63.5	71.1	73.1	74.7	77.2	77.6	78.3	78.7	78.8	79.1	79.2	79.3	79.3	79.4	79.4	79.4	
64.8	72.9	75.2	76.9	79.7	80.3	81.0	81.5	81.7	82.1	82.2	82.2	82.3	82.4	82.4	82.4	
66.3	75.2	77.9	79.7	82.8	83.6	84.6	85.3	85.6	86.0	86.2	86.2	86.4	86.4	86.4	86.5	
66.4	75.5	78.2	80.0	83.2	84.0	85.0	85.8	86.1	86.5	86.6	86.7	86.8	86.9	86.9	86.9	
67.3	76.9	79.7	81.6	85.0	85.9	87.0	88.0	88.3	88.8	89.0	89.1	89.2	89.2	89.3	89.3	
67.8	77.8	80.7	82.8	86.2	87.1	88.5	89.6	89.9	90.6	90.9	90.9	91.1	91.1	91.2	91.3	
68.4	78.7	81.8	83.9	87.6	88.5	90.0	91.2	91.5	92.4	92.8	92.8	93.2	93.2	93.2	93.3	
68.4	78.8	82.0	84.2	87.9	88.9	90.4	91.7	92.1	93.0	93.4	93.5	93.8	93.9	93.9	94.0	
68.7	79.3	82.5	84.7	88.4	89.5	91.1	92.7	93.2	94.2	94.7	94.8	95.3	95.3	95.4	95.4	
68.8	79.5	82.8	85.1	88.9	90.0	91.7	93.3	93.9	94.9	95.4	95.5	96.0	96.1	96.1	96.2	
68.8	79.6	83.1	85.4	89.3	90.5	92.3	93.8	94.6	95.6	96.2	96.4	96.9	97.0	97.0	97.1	
68.8	79.8	83.3	85.7	89.6	90.8	92.7	94.3	95.1	96.2	96.9	97.0	97.6	97.7	97.8	97.9	
68.8	79.9	83.5	86.0	89.9	91.2	93.3	94.9	95.7	97.0	97.7	97.8	98.4	98.5	98.7	98.7	
68.8	79.9	83.6	86.1	90.0	91.3	93.5	95.3	96.2	97.5	98.2	98.4	99.1	99.2	99.4	99.5	
68.8	79.9	83.6	86.1	90.0	91.3	93.5	95.3	96.2	97.7	98.3	98.5	99.2	99.4	99.6	99.8	
68.8	79.9	83.6	86.1	90.0	91.3	93.5	95.3	96.2	97.7	98.4	98.5	99.3	99.5	99.8	100.0	
68.8	79.9	83.6	86.1	90.0	91.3	93.5	95.3	96.2	97.7	98.4	98.5	99.3	99.5	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

51.2	52.4	52.4	52.5	52.5	52.5	52.5	52.6	52.6	52.6	52.9	52.9	53.0	53.0	53.0	53.0	
54.3	56.0	56.0	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.6	56.6	56.7	56.7	56.7	56.7	
54.7	56.6	56.6	56.7	56.7	56.7	56.7	56.8	56.8	56.8	57.1	57.1	57.2	57.2	57.2	57.2	
54.7	56.7	56.7	56.8	56.8	56.8	56.8	56.9	56.9	56.9	57.2	57.2	57.3	57.3	57.3	57.3	
54.9	56.9	56.9	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.4	57.4	57.5	57.5	57.5	57.5	
55.6	57.6	57.6	57.7	57.7	57.7	57.7	57.8	57.8	57.8	58.2	58.2	58.3	58.3	58.3	58.3	
58.9	61.0	61.0	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.5	61.5	61.6	61.6	61.6	61.6	
58.9	61.0	61.0	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.5	61.5	61.6	61.6	61.6	61.6	
61.0	63.0	63.0	63.1	63.1	63.1	63.1	63.4	63.4	63.5	63.9	63.9	64.0	64.0	64.0	64.0	
61.8	64.0	64.0	64.1	64.1	64.1	64.1	64.4	64.4	64.5	64.8	64.8	64.9	64.9	64.9	64.9	
64.0	66.2	66.2	66.5	66.7	66.7	66.7	67.0	67.0	67.1	67.4	67.4	67.5	67.5	67.5	67.5	
66.3	68.8	68.8	69.1	69.4	69.4	69.4	69.7	69.7	69.8	70.1	70.1	70.3	70.3	70.3	70.3	
67.1	69.6	69.8	70.2	70.9	70.9	70.9	71.2	71.2	71.3	71.6	71.6	71.8	71.8	71.8	71.8	
69.1	72.0	72.3	72.7	73.3	73.3	73.3	73.7	73.7	73.8	74.1	74.1	74.3	74.3	74.3	74.3	
70.2	73.4	73.8	74.2	74.8	74.8	74.8	75.2	75.2	75.3	75.6	75.6	75.8	75.8	75.8	75.8	
72.6	76.0	76.5	77.0	77.8	77.8	77.8	78.2	78.2	78.3	78.6	78.6	78.8	78.8	78.8	78.8	
73.9	77.6	78.3	79.1	80.1	80.1	80.2	80.5	80.5	80.6	81.0	81.0	81.2	81.2	81.2	81.2	
74.6	79.1	79.8	80.6	81.7	81.7	81.8	82.5	82.5	82.6	82.9	82.9	83.1	83.1	83.1	83.1	
74.6	79.2	80.2	81.1	82.3	82.3	82.4	83.0	83.0	83.1	83.4	83.4	83.7	83.7	83.7	83.7	
75.6	81.1	82.2	83.0	84.3	84.6	84.8	85.5	85.5	85.6	85.9	85.9	86.1	86.1	86.1	86.1	
77.4	83.4	84.7	85.6	86.9	87.4	88.3	89.2	89.2	89.4	89.7	89.7	89.9	89.9	89.9	89.9	
77.5	84.3	85.6	86.6	87.8	88.4	89.6	90.6	90.6	90.9	91.2	91.2	91.4	91.4	91.4	91.4	
77.7	84.5	85.8	86.8	88.1	88.6	89.9	91.0	91.0	91.2	91.5	91.5	91.7	91.7	91.7	91.7	
77.7	84.5	85.8	86.8	88.1	88.6	90.0	91.1	91.2	91.4	91.7	91.7	91.9	91.9	91.9	91.9	
77.8	84.8	86.1	87.1	88.6	89.1	90.6	92.0	92.3	92.5	92.8	92.8	93.0	93.0	93.0	93.0	
77.8	85.5	86.8	87.7	89.2	89.8	91.3	92.7	93.2	93.4	93.9	93.9	94.2	94.2	94.2	94.2	
77.8	86.0	87.5	88.7	90.2	90.8	92.3	93.8	94.4	94.6	95.3	95.3	95.7	95.7	95.7	95.7	
77.8	86.0	87.5	88.7	90.3	90.9	93.0	94.5	95.2	95.4	96.0	96.0	96.5	96.5	96.5	96.7	
77.8	86.0	87.5	88.7	90.3	90.9	93.4	95.3	96.0	96.5	97.1	97.1	97.5	97.5	97.6	98.2	
77.8	86.0	87.5	88.7	90.3	90.9	93.8	95.6	96.3	96.8	97.5	97.5	98.1	98.1	98.2	99.0	
77.8	86.0	87.5	88.7	90.3	90.9	93.8	95.6	96.3	96.8	97.5	97.5	98.1	98.3	98.4	99.6	
77.8	86.0	87.5	88.7	90.3	90.9	93.8	95.6	96.3	96.8	97.5	97.6	98.2	98.4	98.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-2520

47.4	49.0	49.5	49.6	50.1	50.3	50.3	50.3	50.3	50.4	50.4	50.4	50.4	50.5	50.5	50.6	
50.0	51.9	52.4	52.5	53.0	53.2	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.5	53.5	53.7	
50.2	52.2	52.6	52.7	53.2	53.4	53.4	53.5	53.5	53.7	53.7	53.7	53.7	53.8	53.8	53.9	
50.3	52.4	52.8	52.9	53.4	53.7	53.7	53.8	53.8	53.9	53.9	53.9	53.9	54.0	54.0	54.1	
51.6	53.7	54.1	54.2	54.7	54.9	54.9	55.1	55.1	55.2	55.2	55.2	55.2	55.3	55.3	55.4	
52.5	54.8	55.3	55.4	55.9	56.1	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.5	56.5	56.6	
56.1	58.6	59.0	59.1	59.7	59.9	59.9	60.0	60.0	60.1	60.1	60.1	60.1	60.2	60.2	60.3	
56.7	59.2	59.7	59.8	60.3	60.5	60.5	60.6	60.6	60.8	60.8	60.8	60.8	60.9	60.9	61.0	
58.5	61.1	61.5	61.6	62.2	62.4	62.4	62.5	62.5	62.6	62.6	62.6	62.6	62.7	62.7	62.8	
58.7	61.5	61.9	62.0	62.6	62.8	62.8	62.9	62.9	63.0	63.0	63.0	63.0	63.1	63.1	63.2	
59.7	62.7	63.1	63.2	63.8	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.2	64.3	64.3	64.4	
61.4	64.6	65.1	65.2	65.7	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.3	
62.3	65.6	66.0	66.2	67.1	67.5	67.5	67.6	67.6	67.7	67.7	67.7	67.7	67.8	67.8	68.0	
65.2	69.6	70.0	70.2	71.2	71.7	71.8	71.9	71.9	72.0	72.0	72.0	72.0	72.2	72.2	72.3	
66.2	70.6	71.1	71.3	72.3	72.8	72.9	73.0	73.0	73.1	73.1	73.1	73.1	73.2	73.2	73.3	
68.1	73.0	73.5	73.8	75.3	75.8	75.9	76.1	76.1	76.2	76.2	76.2	76.2	76.3	76.3	76.5	
68.8	74.4	75.2	75.4	77.0	77.6	77.7	78.0	78.0	78.1	78.1	78.1	78.1	78.2	78.2	78.3	
70.4	76.5	77.2	77.4	79.1	80.0	80.1	80.4	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.8	
70.9	77.0	78.1	78.3	80.0	80.9	81.0	81.3	81.3	81.4	81.4	81.4	81.4	81.5	81.5	81.6	
71.7	78.5	79.8	80.0	81.8	82.8	83.1	83.5	83.5	83.7	83.7	83.7	83.7	83.8	83.8	83.9	
73.1	80.0	81.3	81.5	83.7	84.6	84.9	85.6	85.6	85.8	85.8	85.8	85.8	85.9	85.9	86.0	
73.7	80.8	82.2	82.4	84.6	85.7	86.0	86.7	86.7	86.9	87.4	87.4	87.4	87.5	87.5	87.6	
73.8	81.1	82.7	82.9	85.2	86.5	86.9	87.5	87.5	87.7	88.3	88.3	88.3	88.4	88.4	88.5	
73.8	81.1	82.8	83.0	85.3	86.6	87.1	87.7	87.7	88.1	88.6	88.6	88.6	88.7	88.7	88.8	
74.0	81.4	83.1	83.4	85.7	87.1	87.7	88.4	88.4	88.9	89.5	89.5	89.5	89.6	89.6	89.7	
74.0	82.2	83.9	84.2	86.7	88.2	88.9	89.6	89.6	90.1	91.2	91.3	91.6	91.7	91.7	91.8	
74.0	82.8	84.6	85.3	88.1	89.9	91.1	91.8	91.8	92.4	93.7	93.8	94.2	94.3	94.3	94.4	
74.0	83.0	85.1	85.7	88.5	90.4	92.4	93.4	93.5	94.1	95.5	95.6	96.0	96.1	96.1	96.2	
74.1	83.1	85.2	85.8	88.7	91.3	93.7	94.7	94.9	95.7	97.1	97.2	97.6	97.7	97.8	98.0	
74.0	83.1	85.2	85.8	88.7	91.3	93.8	94.9	95.2	96.3	97.7	97.8	98.3	98.4	98.5	98.9	
74.0	83.1	85.2	85.8	88.8	91.4	93.9	95.1	95.3	96.5	98.0	98.1	98.6	98.7	99.1	99.6	
74.0	83.1	85.2	85.8	88.8	91.4	93.9	95.1	95.3	96.5	98.0	98.1	98.6	98.7	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

CEILING (FEET)	≥10	10	9	8	7	6	5	4	3	2½	2	1½	1	¾	½	¼	0
22000	43.1	45.6	46.0	46.5	47.6	47.6	48.0	48.5	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.9
20000	46.3	48.9	49.5	49.9	51.2	51.2	51.5	52.0	52.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.5
18000	46.6	49.1	49.7	50.1	51.4	51.4	51.7	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.7
17000	46.6	49.1	49.7	50.1	51.4	51.4	51.7	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.7
16000	47.4	50.0	50.5	51.1	52.4	52.4	52.7	53.2	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.9
15000	48.7	51.3	51.8	52.4	53.8	53.8	54.1	54.6	54.7	55.1	55.1	55.1	55.2	55.2	55.2	55.2	55.4
14000	52.0	54.7	55.3	55.8	57.3	57.3	57.6	58.2	58.3	58.7	58.7	58.7	58.8	58.8	58.8	58.8	59.0
13000	52.5	55.5	56.0	56.6	58.1	58.1	58.4	58.9	59.0	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.8
12000	54.9	58.1	58.7	59.2	60.9	60.9	61.2	61.7	61.8	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.8
11000	55.9	59.5	60.1	60.6	62.4	62.4	62.7	63.2	63.3	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.3
10000	56.2	60.0	60.8	61.3	63.0	63.0	63.3	63.9	64.0	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.9
9000	58.3	62.5	63.3	64.0	65.8	65.8	66.1	66.7	66.8	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.7
8000	59.0	63.2	64.1	64.7	66.7	67.0	67.5	68.1	68.2	68.8	68.8	68.8	68.9	68.9	68.9	68.9	69.1
7000	60.8	65.3	66.1	66.9	69.1	69.5	70.0	70.5	70.6	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.6
6000	61.4	66.1	67.2	68.0	70.4	70.9	71.6	72.2	72.3	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.2
5000	63.8	68.9	70.1	70.9	73.3	73.9	74.6	75.2	75.3	75.9	75.9	76.0	76.1	76.1	76.1	76.1	76.3
4500	64.6	70.0	71.6	72.5	75.1	75.6	76.5	77.1	77.2	78.0	78.0	78.1	78.2	78.2	78.2	78.2	78.4
4000	67.1	72.9	74.5	75.5	78.2	78.7	79.7	80.4	80.5	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.7
3500	67.4	73.3	75.1	76.0	78.8	79.4	80.3	81.1	81.2	81.9	81.9	82.0	82.2	82.2	82.2	82.2	82.4
3000	68.1	74.4	76.6	77.5	80.5	81.1	82.2	83.0	83.1	84.0	84.0	84.1	84.2	84.2	84.2	84.2	84.4
2500	68.3	74.7	77.0	78.0	81.2	81.7	83.1	84.0	84.1	85.1	85.1	85.2	85.3	85.3	85.3	85.3	85.5
2000	69.0	75.9	78.2	79.1	82.6	83.1	84.8	85.7	85.8	86.9	87.2	87.3	87.4	87.4	87.5	87.7	
1800	69.1	76.3	78.6	79.6	83.2	84.0	85.9	86.9	87.0	88.1	88.5	88.6	88.9	88.9	89.0	89.2	
1500	69.4	77.0	79.5	80.5	84.2	85.2	87.1	88.1	88.2	89.6	90.0	90.1	90.4	90.4	90.5	90.8	
1000	69.6	77.2	79.7	80.9	84.5	85.5	87.5	88.6	88.7	90.1	90.5	90.6	91.0	91.0	91.1	91.3	
500	69.7	77.3	79.9	81.2	85.2	86.1	88.2	89.2	89.4	90.8	91.3	91.4	91.9	91.9	92.0	92.3	
400	69.8	77.8	80.6	82.5	86.8	87.8	90.1	91.4	91.5	92.9	93.7	93.8	94.5	94.5	94.6	94.8	
300	69.8	78.1	81.0	82.9	87.6	88.9	91.4	92.8	93.0	94.5	95.3	95.4	96.1	96.1	96.2	96.5	
200	69.9	78.3	81.2	83.1	87.8	89.5	92.5	94.0	94.2	95.8	96.9	97.0	98.0	98.0	98.1	98.3	
100	69.9	78.3	81.2	83.1	87.8	89.5	92.6	94.1	94.3	96.0	97.2	97.3	98.3	98.5	98.7	99.0	
0	69.9	78.3	81.2	83.1	87.8	89.5	92.6	94.1	94.3	96.1	97.3	97.4	98.5	98.8	99.6	99.9	
	69.9	78.3	81.2	83.1	87.8	89.5	92.6	94.1	94.3	96.1	97.3	97.4	98.5	98.8	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1200

	42.3	45.8	47.8	48.4	48.6	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
	45.8	49.9	51.9	52.6	52.8	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
	46.0	50.2	52.3	52.9	53.2	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
	46.0	50.2	52.3	52.9	53.2	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
	46.5	50.8	52.8	53.5	53.9	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
	47.6	52.0	54.1	54.8	55.3	55.5	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9
	49.4	54.1	56.2	57.3	57.7	58.0	58.5	58.5	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6
	49.5	54.3	56.5	57.5	58.0	58.2	58.7	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8
	50.4	55.6	57.7	58.9	59.5	59.7	60.4	60.4	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6
	51.5	56.9	59.0	60.2	60.9	61.1	61.9	61.9	61.9	62.0	62.2	62.2	62.2	62.2	62.2	62.2
	52.4	57.7	59.9	61.3	62.3	62.5	63.4	63.4	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7
	53.7	59.5	61.7	63.3	64.5	64.7	65.7	65.9	65.9	66.1	66.2	66.2	66.3	66.3	66.3	66.3
	54.6	61.2	63.8	65.5	66.8	67.1	68.1	68.3	68.3	68.5	68.6	68.6	68.7	68.7	68.7	68.7
	55.4	62.5	65.1	66.9	68.4	68.7	69.7	69.9	69.9	70.1	70.2	70.2	70.3	70.3	70.3	70.3
	56.2	63.3	66.0	67.8	69.5	69.8	70.8	71.0	71.0	71.2	71.3	71.3	71.4	71.4	71.4	71.4
	58.3	65.7	68.4	70.2	71.8	72.3	73.2	73.7	73.8	74.0	74.1	74.1	74.2	74.2	74.2	74.2
	59.2	67.4	70.8	72.8	74.4	74.8	76.0	76.6	76.7	76.9	77.2	77.2	77.3	77.3	77.3	77.3
	61.1	70.0	73.9	75.9	77.6	78.3	79.8	80.3	80.4	80.6	81.0	81.0	81.1	81.1	81.1	81.1
	61.5	70.4	74.3	76.3	78.1	78.9	80.4	81.0	81.1	81.3	81.6	81.6	81.7	81.7	81.7	81.7
	61.8	71.3	75.3	77.3	79.6	80.4	82.2	82.8	82.9	83.1	83.5	83.5	83.7	83.7	83.7	83.7
	63.0	73.2	77.2	79.5	81.8	82.8	84.9	85.7	85.8	86.0	86.5	86.5	86.7	86.7	86.7	86.7
	63.9	74.4	78.7	81.3	84.4	85.4	87.7	88.7	88.8	89.0	89.5	89.5	89.7	89.7	89.7	89.7
	64.2	75.4	80.0	82.6	85.9	87.0	89.5	90.4	90.5	90.9	91.7	91.7	91.9	91.9	91.9	91.9
	64.2	75.5	80.3	82.9	86.2	87.3	89.9	91.0	91.1	91.4	92.3	92.3	92.5	92.5	92.5	92.5
	64.2	75.7	80.6	83.2	86.8	87.8	90.5	91.6	91.8	92.3	93.1	93.1	93.3	93.3	93.3	93.3
	64.3	75.8	81.0	83.5	87.2	88.3	91.1	92.3	92.5	92.9	93.8	93.8	94.0	94.0	94.0	94.0
	64.3	75.8	81.1	83.9	87.8	89.0	92.2	93.3	93.5	94.1	95.1	95.1	95.6	95.6	95.6	95.6
	64.3	75.8	81.1	83.9	88.1	89.6	93.3	94.5	94.7	95.3	96.3	96.3	96.9	96.9	96.9	96.9
	64.3	75.8	81.1	83.9	88.1	89.6	93.5	94.8	95.2	95.8	97.2	97.2	97.8	98.0	98.2	98.2
	64.3	75.8	81.1	83.9	88.1	89.6	93.5	94.8	95.2	95.9	97.3	97.3	98.0	98.1	98.6	98.8
	64.3	75.8	81.1	83.9	88.1	89.6	93.5	94.8	95.2	96.0	97.4	97.4	98.5	98.6	99.5	99.9
	64.3	75.8	81.1	83.9	88.1	89.6	93.5	94.8	95.2	96.0	97.4	97.4	98.5	98.6	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

	41.3	44.7	46.3	46.3	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
	45.1	49.1	50.9	50.9	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
	45.3	49.5	51.2	51.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	45.6	49.8	51.5	51.5	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
	46.0	50.5	52.4	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
	47.8	52.4	54.2	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
	48.9	53.9	55.7	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
	49.1	54.3	56.1	56.2	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
	50.0	55.5	57.3	57.4	58.0	58.0	58.3	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5
	50.4	55.9	57.8	58.0	58.5	58.6	58.9	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	
	52.3	57.5	59.5	59.7	60.2	60.4	60.8	60.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	
	53.7	59.8	61.7	62.3	62.8	63.1	63.4	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	
	53.9	60.6	62.6	63.1	63.7	64.0	64.3	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	
	55.8	62.9	64.8	65.5	66.0	66.3	66.8	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	
	56.6	64.0	65.9	66.6	67.2	67.5	68.2	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	
	58.9	66.8	68.9	69.7	70.4	70.8	71.7	71.9	71.9	71.9	72.2	72.2	72.5	72.5	72.5	72.5	
	60.9	69.4	71.9	72.7	73.5	73.9	75.5	75.7	75.7	75.7	75.9	75.9	76.3	76.3	76.3	76.3	
	63.7	73.3	76.0	77.1	78.0	78.4	80.1	80.3	80.3	80.3	80.6	80.8	81.2	81.2	81.2	81.2	
	64.1	73.9	76.6	77.6	78.6	79.0	80.8	81.0	81.0	81.0	81.3	81.4	81.8	81.8	81.8	81.8	
	65.7	76.5	79.4	80.4	81.6	82.0	83.9	84.1	84.1	84.1	84.4	84.5	85.2	85.2	85.2	85.2	
	66.5	78.6	81.6	83.0	84.2	84.6	86.7	86.9	87.0	87.0	87.4	87.5	88.4	88.4	88.4	88.4	
	66.9	79.8	83.1	84.6	85.9	86.3	88.4	88.6	88.7	88.7	89.1	89.2	90.3	90.3	90.3	90.3	
	67.0	80.8	84.3	86.1	87.6	88.1	90.2	90.4	90.5	90.6	91.1	91.2	92.3	92.3	92.3	92.3	
	67.1	81.0	84.6	86.6	88.3	88.7	90.9	91.1	91.2	91.3	91.7	91.8	92.9	92.9	92.9	92.9	
	67.0	81.2	84.9	87.0	89.1	89.6	91.7	91.9	92.0	92.5	93.0	93.2	94.4	94.4	94.4	94.4	
	67.0	81.2	84.9	87.0	89.2	89.7	91.8	92.0	92.2	92.6	93.2	93.4	94.6	94.6	94.6	94.6	
	67.0	81.5	85.3	87.3	90.0	90.4	92.6	92.9	93.0	93.5	94.2	94.4	95.9	95.9	95.9	95.9	
	67.3	81.5	85.3	87.8	91.0	91.5	93.7	94.0	94.2	94.9	95.7	95.9	97.4	97.4	97.4	97.4	
	67.3	81.5	85.3	87.8	91.0	91.5	93.7	94.1	94.4	95.3	96.6	96.8	98.5	98.7	98.8	98.8	
	67.0	81.5	85.3	87.8	91.0	91.5	93.8	94.2	94.5	95.5	96.8	97.0	98.8	99.0	99.1	99.2	
	67.0	81.5	85.3	87.8	91.0	91.5	93.8	94.2	94.5	95.5	96.8	97.0	98.9	99.1	99.4	100.0	
	67.0	81.5	85.3	87.8	91.0	91.5	93.8	94.2	94.5	95.5	96.8	97.0	98.9	99.1	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

42.0	44.2	44.8	44.9	45.1	45.2	45.3	45.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	
45.7	48.3	49.2	49.5	49.6	49.7	49.8	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
46.3	48.9	49.9	50.1	50.2	50.3	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	
46.8	49.4	50.3	50.5	50.6	50.8	50.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	
47.6	50.8	51.7	51.9	52.1	52.2	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
48.5	51.7	52.7	52.9	53.0	53.1	53.3	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	
49.6	53.2	54.2	54.4	54.5	54.6	54.9	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	
50.1	53.9	54.8	55.1	55.2	55.3	55.6	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	
51.7	56.1	57.1	57.3	57.4	57.5	57.8	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	
52.7	57.5	58.5	58.7	58.9	59.0	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	
53.7	58.5	59.5	59.8	60.0	60.1	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	
54.7	60.1	61.2	61.7	61.9	62.0	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
55.2	60.8	61.8	62.4	62.6	62.7	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	
57.4	63.2	64.4	64.9	65.2	65.3	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
59.6	65.6	66.8	67.3	67.7	67.8	68.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	
62.7	69.7	70.9	71.4	72.0	72.2	72.9	73.1	73.3	73.5	73.5	73.5	73.8	73.8	73.8	73.8	
64.7	72.3	74.1	74.6	75.5	75.7	76.7	77.0	77.2	77.4	77.4	77.4	77.6	77.6	77.6	77.6	
67.4	76.0	78.0	78.7	79.8	80.3	81.5	81.8	82.0	82.3	82.3	82.3	82.5	82.6	82.6	82.6	
67.6	76.6	78.5	79.2	80.3	80.9	82.0	82.4	82.6	82.8	82.8	82.8	83.0	83.1	83.1	83.1	
69.0	79.7	81.6	82.7	84.1	84.6	85.8	86.6	86.8	87.0	87.0	87.0	87.4	87.5	87.5	87.5	
69.7	81.0	83.0	84.1	85.6	86.1	87.6	88.4	88.6	89.0	89.1	89.1	89.6	89.7	89.7	89.7	
70.0	81.5	83.7	84.7	86.3	87.0	88.6	89.5	89.7	90.3	90.6	90.6	91.1	91.2	91.2	91.2	
70.2	82.2	84.5	85.7	87.3	88.0	89.6	90.4	90.6	91.4	91.7	91.7	92.2	92.3	92.3	92.3	
70.3	82.5	84.8	86.1	87.7	88.4	90.0	90.9	91.1	91.9	92.3	92.3	92.7	92.8	92.8	92.9	
70.3	82.5	85.1	86.7	88.5	89.1	90.8	91.6	91.8	92.8	93.2	93.4	93.9	94.0	94.0	94.1	
70.3	82.7	85.3	87.1	89.5	90.1	91.7	93.0	93.2	94.2	94.8	95.2	95.6	95.8	95.9	96.0	
70.3	82.7	85.3	87.1	89.7	90.3	92.3	93.5	93.8	95.1	95.8	96.1	96.8	97.0	97.1	97.2	
70.3	82.8	85.5	87.4	90.3	91.0	93.1	94.6	94.8	96.1	97.0	97.3	98.1	98.3	98.4	98.5	
70.3	82.8	85.5	87.6	90.3	91.1	93.2	94.8	95.1	96.5	97.4	97.7	98.7	99.1	99.4	99.5	
70.3	82.8	85.5	87.6	90.3	91.1	93.2	94.8	95.1	96.5	97.4	97.7	98.7	99.1	99.5	99.7	
70.3	82.8	85.5	87.6	90.3	91.1	93.2	94.8	95.1	96.5	97.4	97.7	98.7	99.1	99.5	99.9	
70.3	82.8	85.5	87.6	90.3	91.1	93.2	94.8	95.1	96.5	97.4	97.7	98.7	99.1	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC [illegible] 0-14-5 (OL-A) [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

47.1	48.5	43.9	49.4	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	
49.9	51.8	52.3	52.8	52.9	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	
50.1	52.4	52.8	53.3	53.4	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	
50.3	52.6	53.0	53.5	53.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	
51.3	53.9	54.3	54.8	54.9	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	
52.5	55.2	55.6	56.1	56.2	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	
54.7	58.1	58.5	59.0	59.1	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	
55.2	58.5	58.9	59.5	59.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
57.5	61.0	61.5	62.0	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
58.5	62.0	62.6	63.1	63.2	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	
59.2	62.8	63.3	63.9	64.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
59.9	64.1	64.8	65.4	65.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	
60.4	64.8	65.6	66.1	66.2	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
62.7	67.5	68.5	69.2	69.4	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
64.4	69.4	70.5	71.3	71.5	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
66.8	72.5	73.8	74.6	75.3	75.8	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	
69.4	76.0	77.4	78.7	79.6	80.1	80.2	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	
71.8	79.5	81.2	82.6	83.8	84.5	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	
72.3	80.1	81.8	83.2	84.4	85.2	85.3	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	
72.8	81.2	83.1	84.6	86.0	87.1	87.5	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	
73.8	82.4	84.3	86.1	87.8	89.2	90.0	90.4	90.5	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
73.9	82.6	84.5	86.3	88.2	89.7	90.6	91.1	91.4	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	
73.9	82.6	84.6	86.5	88.3	89.8	90.8	91.2	91.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	
73.9	82.8	84.8	86.7	88.5	90.0	91.0	91.6	92.0	92.5	92.9	92.9	92.9	93.0	93.0	93.0	93.0	
73.9	82.9	85.1	86.9	89.2	90.8	91.7	92.4	92.8	93.2	93.8	93.8	93.8	93.9	93.9	93.9	93.9	
73.9	82.9	85.1	87.1	89.9	91.6	92.6	93.7	94.1	94.6	95.3	95.3	95.3	95.5	95.5	95.5	95.5	
73.9	83.0	85.2	87.3	90.1	91.8	93.1	94.4	95.3	96.2	97.2	97.2	97.3	97.5	97.5	97.5	97.5	
73.9	83.0	85.2	87.4	90.4	92.2	93.8	95.3	96.1	97.3	98.3	98.3	98.5	98.7	98.7	98.7	98.7	
73.9	83.0	85.2	87.4	90.4	92.2	93.9	95.8	96.7	97.8	98.8	98.9	99.1	99.4	99.4	99.4	99.7	
73.9	83.0	85.2	87.4	90.4	92.2	93.9	95.8	96.7	97.8	99.0	99.1	99.4	99.6	99.6	99.6	99.9	
73.9	83.0	85.2	87.4	90.4	92.2	93.9	95.8	96.7	97.8	99.0	99.1	99.4	99.6	99.6	99.6	99.9	
73.9	83.0	85.2	87.4	90.4	92.2	93.9	95.8	96.7	97.8	99.0	99.1	99.4	99.6	99.6	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

55.2	57.1	57.1	57.2	57.5	57.5	57.6	57.6	57.6	57.8	57.8	57.8	58.0	58.0	58.0	58.1	
57.4	59.8	59.9	60.0	60.4	60.5	60.6	60.6	60.6	60.9	60.9	60.9	61.0	61.0	61.0	61.1	
57.4	59.8	59.9	60.0	60.4	60.5	60.6	60.6	60.6	60.9	60.9	60.9	61.0	61.0	61.0	61.1	
57.4	59.8	59.9	60.0	60.4	60.5	60.6	60.6	60.8	61.0	61.0	61.0	61.1	61.1	61.1	61.2	
57.4	59.8	59.9	60.0	60.4	60.5	60.6	60.6	60.8	61.0	61.0	61.0	61.1	61.1	61.1	61.2	
58.3	60.6	60.8	60.9	61.3	61.4	61.5	61.5	61.6	61.8	61.8	61.8	61.9	61.9	61.9	62.0	
59.9	62.4	62.5	62.6	63.0	63.1	63.2	63.2	63.3	63.5	63.5	63.5	63.7	63.7	63.7	63.8	
60.0	62.6	62.7	62.8	63.2	63.3	63.4	63.4	63.5	63.8	63.8	63.8	63.9	63.9	63.9	64.0	
61.9	64.5	64.6	64.7	65.4	65.5	65.6	65.7	65.8	66.0	66.0	66.0	66.1	66.1	66.1	66.2	
63.0	65.6	65.7	65.8	66.5	66.6	66.7	66.8	66.9	67.1	67.1	67.1	67.2	67.2	67.2	67.3	
63.7	66.2	66.3	66.5	67.3	67.4	67.5	67.6	67.7	68.0	68.0	68.0	68.1	68.1	68.1	68.2	
64.9	67.6	68.1	68.2	69.0	69.1	69.2	69.4	69.5	69.7	69.7	69.7	69.8	69.8	69.8	69.9	
65.4	68.1	68.5	68.7	69.6	69.7	69.8	69.9	70.0	70.2	70.2	70.2	70.3	70.3	70.3	70.4	
67.6	71.4	72.0	72.4	73.3	73.4	73.7	73.8	73.9	74.1	74.1	74.1	74.2	74.2	74.2	74.3	
68.9	72.9	73.7	74.0	75.2	75.3	75.5	75.6	75.7	75.9	75.9	75.9	76.0	76.0	76.0	76.1	
71.4	75.6	76.3	76.8	78.5	78.6	79.1	79.2	79.4	79.6	79.6	79.6	79.7	79.7	79.7	79.8	
72.8	77.5	78.4	79.1	80.9	81.1	81.6	81.9	82.0	82.3	82.3	82.3	82.4	82.4	82.4	82.5	
74.9	80.2	81.1	82.0	84.1	84.4	85.2	85.7	85.8	86.1	86.1	86.1	86.2	86.2	86.2	86.3	
75.3	81.0	81.8	82.9	85.1	85.4	86.1	86.7	86.8	87.1	87.1	87.1	87.2	87.2	87.2	87.3	
76.1	82.3	83.2	84.3	86.5	87.0	87.8	88.6	88.7	89.0	89.0	89.0	89.1	89.1	89.1	89.2	
77.1	83.7	84.7	86.0	88.3	88.8	90.3	91.3	91.4	91.7	91.7	91.7	91.8	91.8	91.8	91.9	
77.3	84.0	85.4	86.7	88.9	89.5	91.6	92.7	92.8	93.3	93.3	93.3	93.4	93.4	93.4	93.5	
77.4	84.4	85.9	87.2	89.5	90.0	92.2	93.3	93.4	94.0	94.0	94.0	94.1	94.1	94.1	94.2	
77.5	84.6	86.2	87.6	89.9	90.4	92.6	93.8	93.9	94.4	94.4	94.4	94.5	94.5	94.5	94.6	
77.6	84.7	86.3	87.7	90.1	90.6	92.9	94.3	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.3	
77.7	84.9	86.6	88.0	90.4	91.0	93.2	94.7	94.8	95.5	95.6	95.6	95.7	95.7	95.7	95.8	
77.7	85.1	86.7	88.1	90.8	91.4	94.0	95.6	95.9	96.7	97.0	97.0	97.2	97.2	97.3	97.4	
77.7	85.1	86.7	88.2	91.1	91.7	94.6	96.2	96.6	97.4	97.8	97.8	98.1	98.1	98.2	98.5	
77.7	85.1	86.7	88.2	91.2	91.8	94.7	96.7	97.0	98.0	98.4	98.4	98.6	98.6	98.7	99.1	
77.7	85.1	86.7	88.2	91.2	91.8	94.9	96.9	97.2	98.2	98.7	98.7	99.2	99.2	99.4	99.9	
77.7	85.1	86.7	88.2	91.2	91.8	94.9	96.9	97.2	98.2	98.7	98.7	99.2	99.2	99.4	100.0	
77.7	85.1	86.7	88.2	91.2	91.8	94.9	96.9	97.2	98.2	98.7	98.7	99.2	99.2	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC [illegible] A previous edition of this form is obsolete.

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72 7575 GRAND FORKS AFB ND 73-62 MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

46.2	48.4	49.1	49.3	49.7	49.7	49.8	49.9	49.9	50.0	50.1	50.1	50.1	50.1	50.1	50.1
49.3	52.0	52.8	53.0	53.4	53.5	53.6	53.7	53.8	53.8	53.9	53.9	53.9	53.9	53.9	54.2
49.6	52.3	53.1	53.4	53.8	53.9	54.0	54.1	54.1	54.2	54.2	54.2	54.2	54.3	54.3	54.3
49.7	52.5	53.3	53.5	53.9	54.1	54.2	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.5
50.3	53.3	54.1	54.4	54.8	54.9	55.0	55.1	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.4
51.4	54.5	55.3	55.6	56.0	56.1	56.2	56.3	56.4	56.5	56.5	56.5	56.6	56.6	56.6	56.6
53.7	57.0	57.8	58.1	58.6	58.7	58.9	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.3
54.1	57.4	58.2	58.6	59.0	59.1	59.3	59.4	59.5	59.6	59.6	59.6	59.7	59.7	59.7	59.7
55.8	59.4	60.2	60.6	61.1	61.2	61.4	61.6	61.6	61.8	61.8	61.8	61.9	61.9	61.9	61.9
56.6	60.4	61.2	61.6	62.1	62.3	62.5	62.7	62.7	62.9	62.9	62.9	63.0	63.0	63.0	63.0
57.6	61.5	62.3	62.8	63.4	63.6	63.8	64.0	64.0	64.2	64.2	64.2	64.3	64.3	64.3	64.3
59.1	63.4	64.3	64.9	65.6	65.8	66.0	66.2	66.2	66.4	66.5	66.5	66.5	66.5	66.5	66.6
59.7	64.2	65.3	65.9	66.7	66.9	67.2	67.4	67.4	67.6	67.7	67.7	67.7	67.8	67.8	67.8
61.7	66.8	67.9	68.6	69.5	69.8	70.1	70.3	70.3	70.5	70.6	70.6	70.6	70.7	70.7	70.7
62.9	68.2	69.4	70.1	71.1	71.4	71.8	72.0	72.0	72.2	72.2	72.2	72.3	72.3	72.3	72.4
65.3	71.0	72.3	73.0	74.3	74.6	75.2	75.4	75.5	75.7	75.8	75.8	75.9	75.9	75.9	76.0
66.8	73.1	74.7	75.6	77.0	77.4	78.1	78.4	78.5	78.7	78.8	78.8	78.9	79.0	79.0	79.0
68.9	75.9	77.7	78.7	80.3	80.8	81.6	82.0	82.1	82.3	82.4	82.5	82.6	82.6	82.6	82.7
69.2	76.4	78.3	79.3	80.9	81.5	82.3	82.7	82.8	83.0	83.1	83.2	83.3	83.3	83.3	83.4
70.1	78.1	80.1	81.2	83.1	83.7	84.7	85.2	85.3	85.5	85.7	85.7	85.9	85.9	85.9	86.0
71.1	79.6	81.7	83.0	84.9	85.7	87.0	87.7	87.8	88.1	88.3	88.3	88.5	88.6	88.6	88.6
71.5	80.4	82.7	84.0	86.1	86.9	88.4	89.2	89.3	89.7	90.1	90.1	90.3	90.4	90.4	90.4
71.7	80.9	83.3	84.7	86.9	87.7	89.4	90.1	90.3	90.7	91.1	91.1	91.4	91.5	91.5	91.5
71.7	81.1	83.6	85.0	87.3	88.1	89.8	90.6	90.8	91.3	91.7	91.8	92.1	92.1	92.1	92.2
71.8	81.3	83.9	85.4	87.8	88.7	90.4	91.4	91.5	92.2	92.6	92.7	93.0	93.0	93.1	93.1
71.8	81.6	84.2	85.7	88.4	89.3	91.1	92.2	92.4	93.1	93.6	93.7	94.1	94.2	94.2	94.3
71.9	81.8	84.5	86.3	89.2	90.2	92.2	93.3	93.7	94.4	95.2	95.3	95.9	96.0	96.0	96.1
71.9	81.9	84.7	86.5	89.7	90.8	93.2	94.4	94.8	95.6	96.5	96.6	97.2	97.3	97.3	97.4
71.9	81.9	84.7	86.6	89.7	91.0	93.6	95.0	95.4	96.4	97.4	97.5	98.2	98.4	98.5	98.7
71.9	81.9	84.7	86.6	89.7	91.0	93.7	95.1	95.6	96.6	97.7	97.8	98.6	98.8	98.9	99.3
71.9	81.9	84.7	86.6	89.7	91.0	93.7	95.2	95.6	96.7	97.8	97.9	98.7	98.9	99.3	99.8
71.9	81.9	84.7	86.6	89.7	91.0	93.7	95.2	95.6	96.7	97.8	97.9	98.8	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-2300

57.8	59.0	59.6	60.0	60.3	60.3	60.8	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
59.1	60.3	60.9	61.3	61.7	61.7	62.1	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	
59.2	60.4	61.0	61.4	61.8	61.8	62.2	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	
59.3	60.6	61.1	61.6	61.9	61.9	62.3	62.4	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
59.7	61.1	61.7	62.1	62.4	62.4	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	
61.4	61.7	62.2	62.7	63.0	63.0	63.4	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	
63.6	64.8	65.3	65.8	66.1	66.1	66.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	
64.1	65.3	65.9	66.3	66.7	66.7	67.2	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	
65.4	67.1	67.8	68.2	68.6	68.6	69.1	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	
66.9	68.4	69.1	69.6	69.9	69.9	70.4	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	
67.7	69.6	70.2	70.7	71.0	71.0	71.6	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	
71.8	73.9	74.6	75.0	75.3	75.3	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	
72.1	74.2	74.9	75.3	75.7	75.7	76.2	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	
75.6	78.1	78.8	79.2	79.6	79.6	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	
77.6	80.6	81.2	81.9	82.3	82.3	82.9	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	
78.4	81.6	82.2	82.9	83.4	83.4	84.0	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	
79.7	83.9	84.8	85.4	86.2	86.2	87.0	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	
81.7	86.3	87.4	88.3	89.3	89.3	90.1	90.2	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	
82.2	86.9	88.0	88.9	89.9	89.9	90.7	90.8	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	
83.4	88.1	89.3	90.2	91.4	91.4	92.2	92.3	92.4	92.6	92.8	92.8	92.8	92.8	92.8	92.8	
83.9	88.8	90.1	90.9	92.2	92.2	93.0	93.1	93.2	93.3	93.6	93.6	93.6	93.6	93.6	93.6	
84.2	89.1	90.9	92.0	93.3	93.3	94.2	94.3	94.4	94.7	94.9	94.9	94.9	94.9	94.9	94.9	
84.4	89.3	91.2	92.4	93.9	93.9	94.8	95.0	95.1	95.3	95.6	95.6	95.6	95.6	95.6	95.6	
84.4	89.6	91.6	92.8	94.3	94.3	95.2	95.4	95.8	96.0	96.2	96.2	96.2	96.2	96.2	96.2	
84.6	89.7	91.8	93.0	94.8	94.8	95.7	95.9	96.2	96.4	96.7	96.7	96.7	96.7	96.7	96.7	
84.8	89.9	92.1	93.3	95.1	95.1	96.0	96.6	96.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3	
85.0	90.2	92.4	93.7	95.4	95.6	96.7	97.2	97.8	98.1	98.3	98.3	98.3	98.3	98.3	98.3	
85.0	90.2	92.4	93.7	95.6	95.7	96.8	97.3	97.9	98.3	98.6	98.6	98.6	98.6	98.6	98.6	
85.0	90.3	92.7	94.0	95.9	96.0	97.1	97.8	98.3	98.8	99.0	99.0	99.0	99.0	99.0	99.0	
85.0	90.3	92.7	94.0	95.9	96.1	97.2	98.2	98.8	99.3	99.6	99.6	99.7	99.7	99.7	99.8	
85.0	90.3	92.7	94.0	95.9	96.1	97.3	98.3	98.9	99.4	99.7	99.7	99.8	99.8	99.8	100.0	
85.0	90.3	92.7	94.0	95.9	96.1	97.3	98.3	98.9	99.4	99.7	99.7	99.8	99.8	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR 0300-0500

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

54.3	55.4	55.7	56.1	56.2	56.2	56.8	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.2	
56.3	57.4	57.7	58.1	58.2	58.2	58.8	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.2	
56.3	57.4	57.7	58.1	58.2	58.2	58.8	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.2	
56.6	57.7	57.9	58.3	58.4	58.4	59.0	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.4	
56.7	57.9	58.1	58.8	58.9	58.9	59.4	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.9	
57.6	59.1	59.3	60.0	60.1	60.1	60.7	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.1	
61.2	63.3	63.7	63.9	64.0	64.0	64.6	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	65.0	
62.0	63.8	64.1	64.7	64.8	64.8	65.3	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.8	
63.6	65.9	66.1	66.8	66.9	66.9	67.4	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.9	
64.8	67.3	67.6	68.2	68.3	68.3	68.9	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.3	
67.1	69.8	70.0	70.7	70.8	70.8	71.3	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.8	
69.4	72.1	72.3	73.0	73.2	73.2	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.2	
70.0	72.8	73.1	73.7	73.9	73.9	74.4	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.9	
72.6	75.4	75.7	76.3	76.6	76.6	77.1	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.6	
74.7	77.6	77.8	78.4	78.7	78.7	79.2	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.7	
76.4	79.3	79.6	80.2	80.4	80.4	81.0	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.4	
78.2	81.2	81.7	82.4	83.0	83.0	83.6	83.8	83.8	83.9	84.0	84.0	84.0	84.0	84.0	84.1	
79.7	83.7	84.2	85.1	85.7	85.8	86.3	86.6	86.7	86.8	86.9	86.9	86.9	86.9	86.9	87.0	
80.3	84.3	84.9	85.8	86.3	86.4	87.0	87.2	87.3	87.4	87.6	87.6	87.6	87.6	87.6	87.7	
81.0	85.2	85.8	86.8	87.4	87.6	88.1	88.3	88.4	88.8	88.9	88.9	88.9	88.9	88.9	89.0	
81.6	85.9	86.4	87.4	88.3	88.4	89.0	89.2	89.3	89.7	89.8	89.8	89.8	89.8	89.8	89.9	
81.9	86.9	87.4	88.4	89.3	89.4	90.1	90.3	90.4	90.8	90.9	90.9	90.9	90.9	90.9	91.0	
82.0	87.1	88.0	89.0	89.9	90.0	90.7	90.9	91.2	91.6	91.7	91.7	91.7	91.7	91.7	91.8	
82.1	87.3	88.3	89.3	90.2	90.3	91.0	91.2	91.7	92.0	92.1	92.1	92.1	92.1	92.1	92.2	
82.1	87.3	88.3	89.3	90.3	90.4	91.1	91.6	92.0	92.3	92.4	92.4	92.6	92.6	92.6	92.7	
82.2	87.8	88.8	90.1	91.1	91.2	91.9	92.7	93.1	93.4	93.7	93.7	93.8	93.8	93.8	93.9	
82.3	88.2	89.6	90.9	92.1	92.4	93.1	94.0	94.4	94.9	95.1	95.1	95.2	95.2	95.2	95.3	
82.3	88.3	89.9	91.2	92.6	92.9	93.9	94.8	95.2	95.8	96.3	96.3	96.4	96.4	96.4	96.6	
82.3	88.6	90.2	91.9	93.2	93.6	94.6	95.6	96.0	96.7	97.2	97.4	97.6	97.6	97.6	97.7	
82.3	88.6	90.2	92.0	93.3	93.7	94.7	95.8	96.2	97.0	97.7	97.9	98.6	98.7	98.7	98.8	
82.3	88.6	90.2	92.0	93.3	93.7	94.7	95.8	96.2	97.0	97.7	97.9	98.6	98.7	98.9	99.1	
82.3	88.6	90.2	92.0	93.3	93.7	94.7	95.8	96.2	97.0	97.7	97.9	98.6	98.7	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-0900

46.4	48.9	49.6	49.9	50.8	50.8	50.8	50.8	50.8	51.3	51.4	51.4	51.6	51.6	51.9	52.1	
49.9	52.7	53.5	53.9	54.8	54.8	54.8	54.8	54.8	55.3	55.4	55.4	55.6	55.6	56.1	56.1	
49.9	52.7	53.5	53.9	54.8	54.8	54.8	54.8	54.8	55.3	55.4	55.4	55.6	55.6	56.1	56.1	
50.3	53.2	53.9	54.4	55.3	55.3	55.3	55.3	55.3	55.7	55.8	55.8	56.1	56.1	56.4	56.5	
50.9	53.8	54.6	55.1	56.0	56.0	56.0	56.0	56.0	56.4	56.5	56.5	56.7	56.7	57.1	57.2	
51.6	54.6	55.5	56.0	56.8	56.8	56.8	56.8	56.8	57.3	57.4	57.4	57.6	57.6	58.0	58.1	
55.8	58.8	59.7	60.2	61.1	61.1	61.1	61.1	61.1	61.6	61.6	61.6	61.9	61.9	62.2	62.3	
56.2	59.2	60.1	60.5	61.4	61.4	61.4	61.4	61.4	61.8	62.0	62.0	62.2	62.2	62.5	62.6	
59.2	62.6	63.5	64.0	64.9	64.8	64.8	64.8	64.8	65.3	65.4	65.4	65.6	65.6	66.0	66.1	
60.6	64.4	65.3	65.7	66.6	66.6	66.6	66.6	66.6	67.1	67.2	67.2	67.4	67.4	67.7	67.9	
62.8	67.1	68.1	68.4	69.5	69.5	69.5	69.5	69.5	70.0	70.1	70.1	70.3	70.3	70.6	70.7	
65.3	69.6	70.9	71.4	72.5	72.5	72.5	72.5	72.5	73.0	73.1	73.1	73.3	73.3	73.6	73.7	
66.1	70.6	72.1	72.5	73.6	73.6	73.6	73.6	73.6	74.1	74.2	74.2	74.4	74.4	74.7	74.9	
67.9	72.6	74.0	74.7	76.1	76.1	76.0	76.0	76.1	76.5	76.6	76.6	76.9	76.9	77.2	77.3	
68.9	73.7	75.1	75.9	77.2	77.2	77.2	77.2	77.2	77.8	77.9	77.9	78.1	78.1	78.4	78.5	
70.2	75.2	76.5	77.5	79.0	79.0	79.0	79.0	79.0	79.5	79.6	79.6	79.9	79.9	80.2	80.3	
71.9	77.0	78.4	79.4	80.9	80.9	80.9	80.9	80.9	81.4	81.6	81.6	81.9	81.9	82.2	82.3	
73.1	78.8	80.3	81.4	83.0	83.1	83.4	83.5	83.5	84.2	84.4	84.4	84.6	84.6	85.1	85.1	
73.6	79.3	80.9	82.0	83.5	83.6	84.0	84.1	84.1	84.8	85.0	85.0	85.2	85.2	85.5	85.7	
75.3	81.1	82.8	84.0	86.0	86.3	86.9	87.1	87.1	87.8	88.0	88.0	88.2	88.2	88.5	88.7	
76.0	82.0	84.1	85.4	87.5	87.9	88.4	88.7	88.7	89.4	89.8	89.8	90.0	90.0	90.3	90.4	
76.4	82.5	85.0	86.3	88.7	89.1	89.7	89.9	89.9	90.7	91.0	91.0	91.2	91.2	91.5	91.7	
76.8	83.0	85.5	87.0	89.3	89.8	90.5	91.0	91.3	92.1	92.4	92.4	92.7	92.7	93.0	93.1	
77.1	83.4	86.1	87.5	90.1	90.5	91.4	91.9	92.2	93.0	93.3	93.3	93.5	93.5	93.9	94.0	
77.3	83.9	86.5	88.0	90.5	91.0	92.0	92.4	92.8	93.5	94.0	94.0	94.4	94.4	94.8	94.9	
77.3	83.9	86.7	88.1	90.8	91.2	92.3	92.9	93.2	94.0	94.7	94.7	95.1	95.3	95.7	95.8	
77.6	84.3	87.1	88.5	91.4	92.0	93.1	93.8	94.1	95.0	95.7	95.7	96.1	96.3	96.7	96.8	
77.6	84.4	87.5	89.4	92.4	93.3	94.5	95.3	95.7	96.6	97.2	97.2	97.7	97.9	98.2	98.3	
77.6	84.4	87.5	89.4	92.4	93.3	94.5	95.3	95.7	96.6	97.2	97.4	98.0	98.2	98.7	98.8	
77.6	84.4	87.5	89.4	92.4	93.3	94.5	95.3	95.7	96.7	97.4	97.7	98.4	98.8	99.2	99.3	
77.6	84.4	87.5	89.4	92.4	93.3	94.5	95.3	95.7	96.7	97.4	97.7	98.4	98.8	99.3	100.0	
77.6	84.4	87.5	89.4	92.4	93.3	94.5	95.3	95.7	96.7	97.4	97.7	98.4	98.8	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS 899

USAFETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR 0900-1100

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

48.4	50.7	51.1	51.2	51.9	51.9	52.0	52.0	52.1	52.1	52.1	52.1	52.2	52.2	52.4	52.4	
53.0	55.2	55.7	55.9	56.7	56.7	56.8	56.8	56.9	56.9	56.9	56.9	57.0	57.0	57.2	57.2	
53.0	55.2	55.7	55.9	56.7	56.7	56.8	56.8	56.9	56.9	56.9	56.9	57.0	57.0	57.2	57.2	
53.1	55.3	55.8	56.0	56.8	56.8	56.9	56.9	57.0	57.0	57.0	57.0	57.1	57.1	57.3	57.3	
53.7	56.1	56.6	56.8	57.6	57.6	57.7	57.7	57.8	57.8	57.8	57.8	57.9	57.9	58.1	58.1	
54.7	57.2	57.7	57.9	58.7	58.7	58.8	58.8	58.9	58.9	58.9	58.9	59.0	59.0	59.2	59.2	
58.1	60.8	61.2	61.4	62.2	62.2	62.3	62.3	62.4	62.4	62.4	62.4	62.6	62.6	62.8	62.8	
58.7	61.3	61.8	62.0	62.8	62.8	62.9	62.9	63.0	63.0	63.0	63.0	63.1	63.1	63.3	63.3	
61.1	64.2	64.7	64.9	65.8	65.8	65.9	65.9	66.0	66.0	66.0	66.0	66.1	66.1	66.3	66.3	
61.6	64.8	65.2	65.4	66.3	66.3	66.4	66.4	66.6	66.6	66.6	66.6	66.7	66.7	66.9	66.9	
63.0	66.4	67.0	67.2	68.1	68.1	68.2	68.2	68.3	68.3	68.3	68.3	68.4	68.4	68.7	68.7	
64.6	68.2	69.1	69.4	70.4	70.4	70.6	70.6	70.7	70.7	70.7	70.7	70.8	70.8	71.0	71.0	
65.4	69.3	70.4	70.8	71.9	71.9	72.0	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.4	72.4	
66.4	70.3	71.6	72.0	73.3	73.4	73.6	73.6	73.7	73.8	73.8	73.8	73.9	73.9	74.1	74.1	
66.9	70.9	72.1	72.6	73.9	74.0	74.3	74.3	74.4	74.6	74.6	74.6	74.7	74.7	74.9	74.9	
69.0	73.1	74.7	75.2	77.1	77.2	77.7	77.7	77.8	77.9	77.9	77.9	78.0	78.0	78.2	78.2	
70.8	75.2	76.8	77.6	79.4	79.6	80.0	80.0	80.1	80.2	80.2	80.2	80.3	80.3	80.6	80.6	
72.9	77.8	79.6	80.3	82.3	82.4	82.9	82.9	83.0	83.2	83.2	83.2	83.3	83.3	83.6	83.6	
73.1	78.0	79.8	80.6	82.8	82.9	83.3	83.3	83.4	83.7	83.7	83.7	83.8	83.8	84.0	84.0	
74.9	80.1	81.9	82.8	85.1	85.3	86.0	86.2	86.3	86.6	86.6	86.6	86.7	86.7	86.9	86.9	
76.4	82.9	84.9	85.9	88.4	88.8	89.6	89.9	90.0	90.2	90.2	90.2	90.3	90.3	90.6	90.6	
77.0	83.6	85.7	86.7	89.6	90.0	91.1	91.4	91.6	91.8	91.8	91.8	91.9	91.9	92.1	92.1	
77.2	84.0	86.1	87.1	90.0	90.4	91.6	92.2	92.3	92.7	92.7	92.7	92.8	92.8	93.0	93.0	
77.4	84.4	86.8	87.8	90.8	91.2	92.3	93.0	93.1	93.4	93.4	93.4	93.6	93.6	93.8	93.8	
77.8	84.9	87.3	88.4	91.8	92.3	93.4	94.1	94.2	94.7	94.7	94.7	94.9	94.9	95.1	95.1	
77.9	85.1	87.7	88.9	92.4	93.1	94.2	94.9	95.0	95.4	95.7	95.7	95.9	95.9	96.3	96.4	
77.9	85.2	87.8	89.0	92.8	93.4	95.2	96.1	96.2	96.7	96.9	96.9	97.1	97.1	97.6	97.7	
77.9	85.3	88.1	89.4	93.2	94.0	96.0	97.2	97.3	97.8	98.0	98.0	98.3	98.3	98.8	98.9	
77.9	85.3	88.1	89.4	93.3	94.1	96.2	97.4	97.6	98.2	98.6	98.6	98.9	99.0	99.6	99.7	
77.9	85.3	88.1	89.4	93.3	94.1	96.2	97.4	97.7	98.3	98.8	98.8	99.1	99.2	99.8	99.9	
77.9	85.3	88.1	89.4	93.3	94.1	96.2	97.4	97.7	98.3	98.8	98.8	99.1	99.2	99.9	100.0	
77.9	85.3	88.1	89.4	93.3	94.1	96.2	97.4	97.7	98.3	98.8	98.8	99.1	99.2	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

47.1	48.7	48.7	48.7	48.9	48.9	49.4	49.7	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8	
52.2	54.2	54.2	54.2	54.4	54.4	55.0	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3	
52.3	54.3	54.3	54.3	54.6	54.6	55.1	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.4	55.4	
52.4	54.4	54.4	54.4	54.7	54.7	55.2	55.4	55.4	55.4	55.4	55.4	55.6	55.6	55.6	55.6	
52.6	54.8	54.8	54.8	55.0	55.0	55.6	55.8	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	
54.7	57.2	57.2	57.2	57.4	57.4	58.0	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	
57.9	60.4	60.4	60.4	60.7	60.7	61.2	61.4	61.4	61.4	61.4	61.4	61.6	61.6	61.6	61.6	
58.3	61.1	61.1	61.1	61.3	61.3	61.9	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	
61.1	64.0	64.2	64.3	64.6	64.6	65.1	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	
62.0	64.9	65.1	65.3	65.6	65.6	66.1	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	
62.9	66.0	66.2	66.4	66.7	66.7	67.2	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6	67.6	
64.4	67.6	67.8	68.1	68.4	68.4	69.0	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.3	
64.9	68.3	68.7	69.0	69.3	69.3	69.9	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	
67.1	70.8	71.1	71.5	71.9	71.9	72.4	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.8	
68.6	72.4	72.8	73.4	73.9	73.9	74.4	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	
71.6	76.1	76.6	77.3	77.8	77.8	78.3	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	
73.8	79.3	79.9	80.8	81.2	81.2	81.8	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	
77.1	83.0	83.7	84.7	85.4	85.4	86.0	86.2	86.2	86.3	86.3	86.3	86.4	86.4	86.4	86.4	
77.6	83.6	84.2	85.2	86.1	86.2	86.8	87.0	87.0	87.1	87.1	87.1	87.2	87.2	87.2	87.2	
78.8	85.2	85.9	87.1	88.0	88.1	88.9	89.1	89.1	89.2	89.2	89.2	89.3	89.3	89.3	89.3	
79.9	87.1	88.3	89.7	90.8	91.0	91.8	92.0	92.1	92.3	92.3	92.3	92.4	92.4	92.4	92.4	
80.0	87.2	88.4	89.8	91.0	91.2	92.2	92.4	92.6	92.8	92.8	92.8	92.9	92.9	92.9	92.9	
80.2	88.0	89.2	90.8	92.2	92.4	93.4	93.7	93.9	94.1	94.1	94.1	94.2	94.2	94.2	94.2	
80.4	88.2	89.6	91.1	92.6	92.8	93.8	94.1	94.4	94.7	94.7	94.7	94.8	94.8	94.8	94.8	
80.6	88.8	90.3	92.0	93.6	93.8	94.9	95.2	95.6	95.8	95.8	95.8	96.1	96.1	96.1	96.1	
80.6	89.0	90.6	92.2	93.8	94.0	95.3	95.7	96.0	96.4	96.4	96.4	96.8	96.8	96.8	96.8	
80.6	89.1	90.7	92.3	93.9	94.1	95.9	96.4	96.9	97.3	97.3	97.3	97.7	97.7	97.7	97.7	
80.9	89.7	91.4	93.1	94.7	95.0	96.8	97.4	97.9	98.3	98.3	98.3	98.7	98.7	98.7	98.7	
80.9	89.7	91.4	93.1	94.7	95.0	96.9	97.7	98.1	98.6	98.6	98.6	98.9	98.9	98.9	99.3	
80.9	89.7	91.4	93.1	94.7	95.0	96.9	97.8	98.2	98.7	98.8	98.8	99.3	99.3	99.6	100.0	
80.9	89.7	91.4	93.1	94.7	95.0	96.9	97.8	98.2	98.7	98.8	98.8	99.3	99.3	99.6	100.0	
80.9	89.7	91.4	93.1	94.7	95.0	96.9	97.8	98.2	98.7	98.8	98.8	99.3	99.3	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1700

47.6	48.5	48.9	49.3	49.7	49.7	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	
53.3	54.5	55.1	55.9	55.8	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	
53.3	54.5	55.1	55.5	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	
53.7	54.9	55.5	56.0	56.4	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	
54.4	56.1	56.6	57.2	57.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	
56.1	57.6	58.2	58.7	59.3	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	
59.1	61.1	61.7	62.3	63.0	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	
59.4	61.4	62.1	62.6	63.3	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	
61.5	63.5	64.3	64.8	65.5	65.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	
62.8	64.8	65.7	66.3	67.0	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
64.4	66.5	67.4	68.0	68.6	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	
67.0	69.3	70.2	70.7	71.4	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	
67.4	70.1	71.0	71.5	72.2	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	
69.3	72.3	73.4	74.1	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	
72.5	75.8	77.0	77.6	78.5	78.5	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	
76.5	79.9	81.1	81.8	82.6	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
79.1	82.8	84.2	84.9	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
81.2	85.5	87.1	87.9	89.3	89.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
81.6	86.1	87.7	88.4	90.1	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	
83.0	87.7	89.2	90.0	91.8	91.8	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
83.5	88.9	90.7	91.7	93.4	93.4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.	
83.8	89.2	91.0	92.0	93.8	93.8	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	
84.1	89.9	91.7	92.8	94.7	94.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	
84.1	89.9	91.7	92.8	94.7	94.8	95.9	95.9	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	
84.2	90.0	91.8	92.9	94.8	94.9	96.1	96.2	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4	
84.3	90.1	92.0	93.1	95.0	95.3	96.8	96.9	97.0	97.3	97.4	97.4	97.6	97.6	97.6	97.6	
84.3	90.1	92.0	93.1	95.1	95.4	97.2	97.4	97.7	98.1	98.2	98.2	98.3	98.3	98.3	98.3	
84.3	90.1	92.1	93.2	95.3	95.9	97.8	98.0	98.2	98.8	98.9	98.9	99.0	99.0	99.0	99.1	
84.3	90.1	92.1	93.2	95.3	95.9	97.8	98.1	98.4	99.0	99.1	99.2	99.3	99.3	99.3	99.4	
84.3	90.1	92.1	93.2	95.3	95.9	98.0	98.3	98.7	99.3	99.4	99.6	99.7	99.7	99.8	100.0	
84.3	90.1	92.1	93.2	95.3	95.9	98.0	98.3	98.7	99.3	99.4	99.6	99.7	99.7	99.8	100.0	
84.3	90.1	92.1	93.2	95.3	95.9	98.0	98.3	98.7	99.3	99.4	99.6	99.7	99.7	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1800-2000

51.3	52.4	53.6	53.6	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	
56.6	57.8	59.1	59.0	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	
56.8	58.0	59.2	59.2	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	
56.9	58.1	59.3	59.3	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
57.2	59.0	60.2	60.2	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	
59.4	61.2	62.4	62.4	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	
62.4	65.0	66.7	66.7	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	
63.3	65.9	67.6	67.6	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	
66.0	68.6	70.2	70.2	70.7	70.7	70.8	70.8	70.9	70.8	70.8	70.8	70.8	70.8	70.8	70.9	
66.9	69.4	71.1	71.1	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	
68.3	70.9	72.6	72.6	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
70.3	73.3	75.1	75.1	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	
71.3	74.1	75.8	75.9	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	
73.2	77.1	78.8	78.9	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	
76.3	80.7	82.3	82.4	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	
79.7	84.2	85.9	86.0	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	
81.4	86.1	87.9	88.2	88.9	89.0	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	
82.7	87.4	89.2	89.8	90.6	90.7	91.0	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
82.7	87.4	89.2	89.8	90.6	90.7	91.0	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
83.7	88.8	90.7	91.2	92.3	92.7	93.2	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
84.2	89.4	91.4	92.0	93.1	93.6	94.2	94.2	94.2	94.7	94.7	94.7	94.7	94.7	94.7	94.7	
84.3	89.7	91.8	92.4	93.7	94.1	94.9	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
84.4	89.8	92.0	92.7	94.2	94.9	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
84.4	89.9	92.2	92.9	94.4	95.1	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	
84.4	89.9	92.2	92.9	94.4	95.1	95.9	95.9	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	
84.7	90.1	92.7	93.3	95.0	95.8	96.6	96.6	96.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
84.7	90.1	92.7	93.3	95.1	96.0	96.9	97.1	97.1	97.8	97.8	97.8	97.9	97.9	97.9	97.9	
84.7	90.2	92.8	93.4	95.2	96.1	97.0	97.8	97.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	
84.7	90.2	92.8	93.4	95.2	96.1	97.8	98.1	98.1	99.3	99.3	99.3	99.4	99.4	99.4	99.7	
84.7	90.2	92.8	93.4	95.2	96.1	97.8	98.1	98.1	99.3	99.4	99.4	99.6	99.6	99.8	99.8	
84.7	90.2	92.8	93.4	95.2	96.1	97.8	98.1	98.1	99.3	99.4	99.4	99.6	99.6	99.8	100.0	
84.7	90.2	92.8	93.4	95.2	96.1	97.8	98.1	98.1	99.3	99.4	99.4	99.6	99.6	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

57.1	58.2	58.2	58.3	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
60.4	61.6	61.6	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
60.4	61.6	61.6	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
60.7	61.8	61.8	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
61.7	63.1	63.1	63.2	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
62.6	64.0	64.0	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
66.1	67.8	67.9	68.0	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
66.7	68.3	68.4	68.8	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
68.9	70.6	70.7	71.0	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
70.6	72.2	72.3	72.7	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
71.4	73.1	73.2	73.6	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
73.8	75.7	75.8	76.1	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
74.2	76.1	76.2	76.6	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
77.1	79.6	79.7	80.0	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
80.2	83.0	83.1	83.9	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
82.1	85.4	85.6	86.3	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
84.3	87.8	88.1	88.9	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
85.8	89.6	89.9	90.7	91.7	91.8	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
85.8	89.7	90.0	90.8	91.8	91.9	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
86.8	90.9	91.4	92.2	93.7	94.0	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
87.3	91.9	92.6	93.3	94.8	95.1	95.2	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
87.4	92.3	93.1	93.8	95.2	95.6	95.7	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
87.7	92.6	93.5	94.1	95.6	95.9	96.0	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
87.7	92.9	93.8	94.6	96.0	96.3	96.4	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
88.0	93.3	94.3	95.1	96.6	96.9	97.0	97.4	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
88.0	93.3	94.3	95.1	96.6	97.1	97.2	97.7	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
88.0	93.3	94.3	95.1	96.6	97.1	97.2	97.7	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
88.0	93.3	94.3	95.1	96.7	97.2	97.7	98.1	98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
88.0	93.3	94.3	95.1	96.7	97.2	97.9	98.4	98.7	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6
88.0	93.3	94.3	95.1	96.7	97.2	97.9	98.4	98.7	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6
88.0	93.3	94.3	95.1	96.7	97.2	98.0	98.6	98.8	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7
88.0	93.3	94.3	95.1	96.7	97.2	98.0	98.6	98.8	99.4	99.6	99.6	99.6	99.7	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

51.3	52.7	53.2	53.4	53.8	53.8	54.1	54.1	54.2	54.2	54.3	54.3	54.3	54.3	54.4	54.4	
55.1	56.7	57.2	57.4	57.9	57.9	58.1	58.2	58.2	58.3	58.3	58.3	58.4	58.4	58.4	58.5	
55.2	56.8	57.3	57.5	57.9	57.9	58.2	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.5	58.5	
55.4	57.0	57.5	57.7	58.2	58.2	58.4	58.5	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.8	
55.9	57.7	58.2	58.5	59.0	59.0	59.2	59.3	59.3	59.4	59.4	59.4	59.5	59.5	59.5	59.6	
57.1	59.1	59.6	59.9	60.3	60.3	60.6	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.9	60.9	
60.5	62.7	63.3	63.6	64.1	64.1	64.4	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.7	64.7	
61.1	63.3	63.9	64.2	64.7	64.7	65.0	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.3	65.3	
63.4	65.8	66.4	66.8	67.3	67.3	67.6	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.9	67.9	
64.5	67.0	67.7	68.0	68.6	68.6	68.9	68.9	68.9	69.0	69.0	69.0	69.1	69.1	69.2	69.2	
66.0	68.7	69.3	69.7	70.2	70.2	70.5	70.6	70.6	70.7	70.7	70.7	70.8	70.8	70.8	70.9	
68.3	71.2	72.0	72.4	73.0	73.0	73.2	73.3	73.3	73.4	73.4	73.4	73.5	73.5	73.5	73.6	
68.9	72.0	72.7	73.2	73.8	73.8	74.0	74.1	74.1	74.2	74.2	74.2	74.3	74.3	74.4	74.4	
71.1	74.5	75.4	75.9	76.5	76.6	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.2	77.2	
73.2	76.8	77.7	78.3	79.0	79.0	79.3	79.4	79.4	79.5	79.5	79.5	79.6	79.6	79.7	79.7	
75.5	79.4	80.3	80.9	81.7	81.8	82.1	82.2	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.5	
77.4	81.7	82.7	83.5	84.4	84.5	84.9	84.9	85.0	85.1	85.1	85.1	85.2	85.2	85.3	85.3	
79.3	84.0	85.2	86.0	87.2	87.2	87.7	87.8	87.8	88.0	88.1	88.1	88.1	88.1	88.2	88.2	
79.6	84.4	85.6	86.4	87.6	87.7	88.2	88.3	88.3	88.5	88.6	88.6	88.6	88.6	88.7	88.7	
80.9	85.9	87.1	88.0	89.5	89.6	90.2	90.4	90.4	90.7	90.7	90.7	90.8	90.8	90.9	90.9	
81.6	87.1	88.6	89.5	91.1	91.3	91.9	92.1	92.1	92.4	92.5	92.5	92.6	92.6	92.6	92.7	
81.9	87.6	89.1	90.2	91.8	92.1	92.8	93.0	93.0	93.3	93.4	93.4	93.5	93.5	93.6	93.6	
82.1	88.0	89.6	90.7	92.5	92.7	93.6	93.8	93.9	94.3	94.3	94.3	94.4	94.4	94.5	94.5	
82.2	88.2	90.0	91.1	92.9	93.2	94.0	94.3	94.5	94.8	94.9	94.9	95.0	95.0	95.1	95.1	
82.4	88.5	90.3	91.5	93.3	93.7	94.5	94.8	95.1	95.4	95.5	95.5	95.7	95.7	95.8	95.8	
82.5	88.6	90.6	91.8	93.7	94.1	95.0	95.5	95.7	96.1	96.3	96.3	96.5	96.5	96.6	96.7	
82.6	88.8	90.8	92.0	94.1	94.5	95.7	96.2	96.5	97.0	97.2	97.2	97.4	97.4	97.5	97.5	
82.6	89.0	91.1	92.3	94.5	95.0	96.4	97.0	97.3	97.9	98.1	98.1	98.3	98.3	98.4	98.5	
82.6	89.0	91.2	92.5	94.6	95.2	96.6	97.3	97.6	98.3	98.6	98.6	98.8	98.9	99.0	99.1	
82.6	89.0	91.2	92.5	94.6	95.2	96.7	97.4	97.7	98.5	98.8	98.9	99.2	99.3	99.5	99.6	
82.6	89.0	91.2	92.5	94.6	95.2	96.7	97.5	97.8	98.5	98.8	98.9	99.2	99.3	99.6	99.9	
82.6	89.0	91.2	92.5	94.6	95.2	96.7	97.5	97.8	98.5	98.8	98.9	99.2	99.3	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-2200

59.9	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	
63.4	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
63.7	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	
63.8	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
64.4	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	
65.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
69.7	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
69.7	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
72.7	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	
75.2	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	
76.7	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	
8 .2	83.5	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	
80.5	84.3	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	
83.2	87.8	88.1	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	
83.4	88.2	88.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	
85.1	90.0	90.2	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
86.2	91.5	91.7	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	
86.8	92.2	92.4	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	
86.8	92.2	92.4	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	
87.3	92.8	93.0	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	
87.7	93.7	93.9	94.5	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
88.5	94.8	95.1	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
88.9	95.3	95.6	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
88.9	95.3	95.6	96.6	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	
89.0	95.5	95.8	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
89.2	95.7	96.3	97.4	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
89.4	95.8	96.7	97.7	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
89.4	95.9	96.9	98.0	99.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
89.4	95.9	96.9	98.0	99.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
89.4	95.9	96.9	98.0	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.4	95.9	96.9	98.0	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.4	95.9	96.9	98.0	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC [illegible] 0-14-5 OL A PREVIOUS EDITIONS [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-0500

54.3	56.5	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1
59.2	61.6	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3
59.6	61.9	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6
59.9	62.3	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9
61.1	63.4	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1
62.4	64.8	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5
65.9	68.5	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2
66.8	69.4	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1
69.2	71.9	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8
71.5	74.5	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5
73.2	76.2	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2
76.5	79.9	80.4	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2
76.9	80.3	80.9	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
79.9	84.0	84.5	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4
81.3	86.5	86.0	86.8	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
83.2	87.6	88.2	88.9	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4
83.9	88.5	89.1	89.9	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
85.2	90.2	90.9	91.7	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2
85.3	90.3	91.0	91.8	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
86.1	91.3	91.9	92.8	93.1	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
86.8	91.9	92.7	93.5	93.9	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
87.7	93.0	93.9	94.7	95.1	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
88.1	93.3	94.3	95.2	95.5	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
88.1	93.3	94.4	95.3	95.7	95.8	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
88.2	93.4	94.6	95.6	96.0	96.1	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
88.2	93.4	94.6	95.6	96.0	96.2	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
88.3	93.8	95.1	96.5	97.0	97.3	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
88.3	94.0	95.4	97.1	98.0	98.3	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
88.3	94.0	95.4	97.1	98.1	98.4	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
88.3	94.0	95.4	97.1	98.1	98.4	98.7	99.4	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9
88.3	94.0	95.4	97.1	98.1	98.4	98.7	99.4	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
88.3	94.0	95.4	97.1	98.1	98.4	98.7	99.4	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0600-0800

51.6	54.1	55.1	55.5	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
56.0	58.8	59.8	60.2	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
56.6	59.4	60.3	60.8	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
56.9	59.6	60.5	61.0	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
57.4	60.2	61.2	61.6	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
58.2	61.0	61.9	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
61.4	64.3	65.2	66.3	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
61.7	65.4	66.5	66.9	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
65.4	69.7	71.0	71.4	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
66.8	71.5	72.9	73.3	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
67.8	72.8	74.5	74.9	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
70.5	76.6	78.4	78.8	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
71.5	77.5	79.5	79.9	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
74.0	80.6	82.8	83.5	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
75.1	81.9	84.1	84.8	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
76.1	83.2	85.5	86.3	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
77.2	84.4	86.7	87.5	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
78.2	85.4	87.6	88.6	89.2	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
78.9	86.1	88.4	89.8	90.4	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
79.7	87.0	89.2	90.8	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
80.4	88.1	90.4	91.9	92.6	92.7	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
81.4	89.2	91.8	93.3	94.1	94.2	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
81.4	89.2	91.8	93.3	94.1	94.2	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
81.9	89.8	92.4	93.9	94.6	94.9	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
82.3	90.1	92.7	94.2	95.1	95.4	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
82.7	90.8	93.4	95.1	95.9	96.3	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
82.9	91.3	94.0	95.6	96.7	97.1	97.8	97.8	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
82.9	91.3	94.0	95.8	97.2	97.6	98.5	98.5	98.5	98.7	98.9	99.0	99.1	99.1	99.1	99.1	99.1
82.9	91.3	94.0	95.8	97.2	97.6	98.5	98.6	98.6	98.8	99.0	99.1	99.4	99.4	99.4	99.4	99.4
82.9	91.3	94.0	95.8	97.5	98.0	98.8	99.0	99.0	99.2	99.5	99.6	99.8	99.8	99.9	99.9	
82.9	91.3	94.0	95.8	97.5	98.0	98.8	99.0	99.0	99.2	99.5	99.6	99.9	99.9	100.0	100.0	
82.9	91.3	94.0	95.8	97.5	98.0	98.8	99.0	99.0	99.2	99.5	99.6	99.9	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

50.4	53.4	53.8	53.8	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	
56.1	59.7	60.0	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	
56.7	60.2	60.5	60.5	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
57.2	60.8	61.1	61.1	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	
58.5	62.2	62.5	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	
59.1	62.8	63.1	63.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	
61.3	65.1	65.4	65.4	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
61.4	65.2	65.5	65.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	
63.5	67.3	67.6	67.6	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	
66.2	69.5	69.8	69.8	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	
66.5	71.0	71.4	71.4	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
69.6	75.3	75.7	75.7	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
69.9	75.8	76.2	76.2	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
72.0	78.5	79.2	79.4	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
72.6	79.2	80.0	80.1	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	
74.7	81.5	82.3	82.4	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
77.0	83.9	84.6	84.7	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	
79.1	86.6	87.4	87.6	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	
79.7	87.1	88.1	88.4	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	
80.7	88.8	89.7	90.1	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	
82.5	90.6	91.9	92.4	93.0	93.1	93.2	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	
83.0	91.7	93.1	93.5	94.3	94.5	94.6	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	
83.7	92.8	94.3	94.7	95.8	96.0	96.1	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	
84.1	93.3	94.8	95.3	96.3	96.6	96.7	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
84.3	93.7	95.3	95.7	96.8	97.1	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
84.6	94.0	95.6	96.0	97.1	97.4	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
84.9	94.3	96.3	96.8	98.0	98.3	98.7	98.9	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	
85.1	94.5	96.6	97.1	98.3	98.6	99.0	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	
85.1	94.5	96.6	97.1	98.3	98.6	99.0	99.2	99.2	99.5	99.7	99.7	99.8	99.8	99.8	99.8	
85.1	94.5	96.6	97.1	98.5	98.8	99.2	99.5	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	
85.1	94.5	96.6	97.1	98.5	98.8	99.2	99.5	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	
85.1	94.5	96.6	97.1	98.5	98.8	99.2	99.5	99.5	99.7	99.9	99.9	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

44.9	47.4	48.4	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
53.1	56.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
53.5	57.5	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
53.7	57.6	57.6	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
54.3	58.3	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
55.5	59.5	59.5	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
58.8	62.8	62.8	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
59.5	63.8	63.8	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
61.7	66.7	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
63.5	68.6	68.6	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
64.9	70.0	70.1	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
66.1	73.2	73.2	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
66.6	73.9	73.9	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
72.7	78.4	78.6	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
74.7	80.5	80.8	81.1	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
78.1	84.1	84.4	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
80.6	87.2	87.6	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
83.7	89.7	90.3	90.6	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
83.1	89.9	90.5	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
84.3	91.4	92.3	92.8	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
86.0	93.3	94.2	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
86.6	94.5	95.4	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
86.8	95.6	96.6	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
87.2	96.0	97.0	97.8	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
87.2	96.1	97.1	98.0	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
87.4	96.3	97.4	98.3	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
87.4	96.3	97.5	98.5	99.0	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
87.4	96.5	97.8	98.8	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.4	96.5	97.8	98.8	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.4	96.5	97.8	98.8	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.4	96.5	97.8	98.8	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
87.4	96.5	97.8	98.8	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC [illegible] 0-14-8 OL A [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

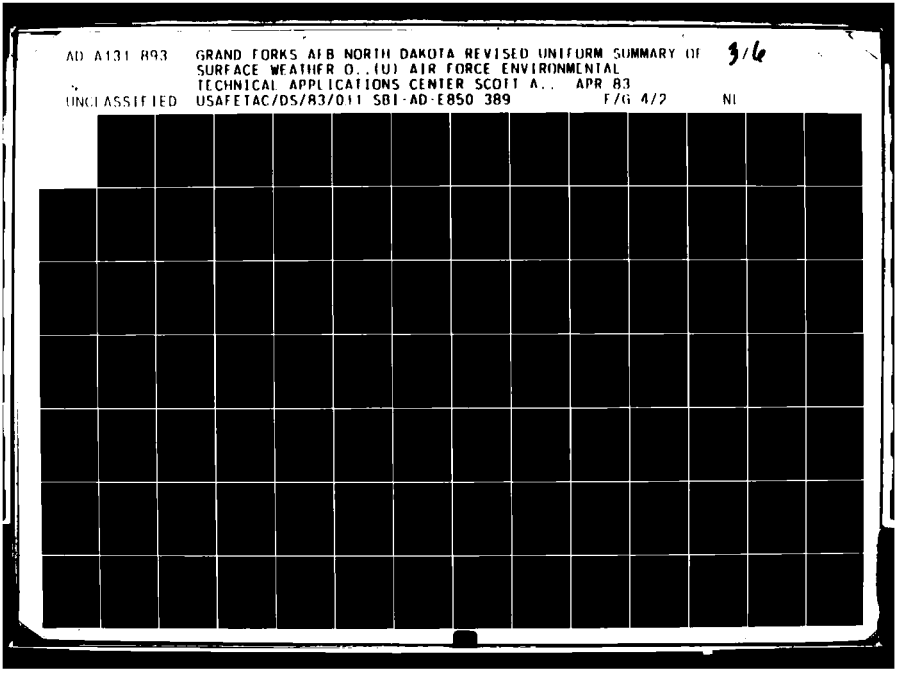
CEILING VERSUS VISIBILITY

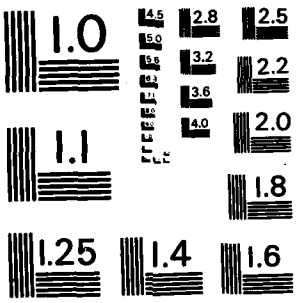
727575 GRAND FORKS AFB ND 73-82 MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1700

42.7	44.5	44.5	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
51.2	53.8	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
51.3	54.4	54.5	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
52.3	54.6	54.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
53.5	56.1	56.2	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
54.3	57.4	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
58.1	61.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
59.1	62.0	62.4	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
61.4	64.5	64.8	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
63.2	66.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
64.7	66.2	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
69.5	73.2	73.5	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
7 .4	74.2	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
75.9	8 .4	80.9	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
8 .2	82.7	83.3	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2.1	86.8	87.4	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6
85.4	9 .3	91.0	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3
86.9	91.9	92.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0
87.2	92.3	93.1	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3
87.5	92.7	93.7	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9
88.4	93.7	94.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0
89.1	95.1	96.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4
89.1	95.5	96.6	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3
89.4	95.8	96.9	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6
89.4	95.8	96.9	98.2	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
89.4	95.9	97.0	98.3	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4
89.4	95.9	97.0	98.3	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
89.4	95.9	97.1	98.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
89.4	95.9	97.1	98.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
89.4	95.9	97.1	98.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
89.4	95.9	97.1	98.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
89.4	95.9	97.1	98.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930


AD A131 893
GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83
UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS)

CEILING FEET	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	48.5	51.6	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 20000	58.0	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 18000	58.6	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 16000	58.7	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	60.4	64.1	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 12000	61.3	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 10000	64.7	68.7	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 9000	65.7	69.7	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 8000	67.8	72.0	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 7000	70.3	74.6	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 6000	72.0	76.8	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 5000	75.7	80.6	81.0	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4500	76.9	81.9	82.3	82.5	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4000	80.0	85.5	85.9	86.2	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 3500	81.3	87.2	88.0	88.4	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000	83.3	89.8	90.9	91.4	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 2500	85.3	91.8	92.9	93.4	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 2000	85.6	92.4	93.4	94.0	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1800	85.6	92.5	93.5	94.1	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1500	86.1	93.3	94.4	94.9	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	86.3	94.1	95.2	95.7	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	86.6	95.1	96.6	97.1	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	86.6	95.3	96.8	97.3	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 800	86.6	95.3	96.8	97.3	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 700	86.6	95.3	96.8	97.3	98.0	98.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	86.7	95.6	97.2	97.7	98.6	98.6	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	86.7	95.8	97.4	98.1	98.9	99.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	86.7	95.9	97.5	98.2	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	86.7	95.9	97.5	98.2	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	86.7	95.9	97.5	98.2	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> 100	86.7	95.9	97.5	98.2	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	86.7	95.9	97.5	98.2	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	57.6	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 20000	63.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 18000	63.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 16000	64.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	65.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 12000	66.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 10000	70.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 9000	70.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 8000	73.4	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 7000	76.0	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 6000	77.7	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 5000	81.0	84.8	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4500	81.7	85.7	85.9	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4000	83.8	88.5	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 3500	84.6	89.4	89.6	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3000	85.7	90.6	90.9	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	87.2	92.2	92.4	92.5	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2000	88.5	93.4	93.7	93.8	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1800	88.6	93.5	93.8	93.9	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500	88.8	93.9	94.1	94.2	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1200	89.0	94.6	94.8	94.9	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1000	89.4	95.5	95.9	96.0	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	89.6	95.7	96.1	96.2	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800	89.8	95.9	96.3	96.5	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	89.8	95.9	96.3	96.5	97.3	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	89.8	96.2	96.7	96.9	97.7	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	89.8	96.3	97.0	97.3	98.4	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	89.8	96.7	97.3	97.7	98.9	99.4	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	89.8	96.7	97.3	97.7	98.9	99.4	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	89.8	96.7	97.3	97.7	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.8	96.7	97.3	97.7	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.8	96.7	97.3	97.7	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOUR)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1 7/8	≥1 3/4	≥1 1/2	≥1 1/4	≥1	≥7/8	≥5/8	≥1/2	≥1/4	≥0
NO CEILING	51.2	53.8	54.0	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 20000	57.6	60.6	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 18000	58.0	61.0	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 16000	58.3	61.2	61.5	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 14000	59.4	62.4	62.7	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 12000	60.4	63.5	63.7	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 10000	63.7	67.0	67.3	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 9000	64.3	67.7	67.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 8000	66.9	70.6	70.9	71.1	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 7000	69.0	72.8	73.2	73.4	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	70.5	74.5	74.9	75.2	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000	73.9	78.4	78.9	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4500	74.6	79.2	79.7	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 4000	77.7	83.0	83.6	84.0	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	78.9	84.3	85.0	85.5	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3000	81.0	86.7	87.5	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5
≥ 2500	82.8	88.7	89.5	90.0	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2000	84.2	90.2	91.0	91.6	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1800	84.4	90.5	91.3	92.0	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1500	85.1	91.4	92.3	93.0	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1200	85.9	92.5	93.5	94.2	94.7	94.7	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	86.5	93.6	94.7	95.5	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900	86.8	94.1	95.3	96.0	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9
≥ 800	87.0	94.3	95.5	96.3	96.9	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	87.1	94.5	95.7	96.5	97.2	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	87.2	94.7	96.0	96.9	97.7	97.9	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	87.3	94.9	96.4	97.3	98.2	98.5	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	87.4	95.1	96.6	97.6	98.7	99.0	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7
≥ 300	87.4	95.1	96.6	97.6	98.7	99.0	99.3	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	87.4	95.1	96.6	97.6	98.8	99.1	99.4	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	87.4	95.1	96.6	97.6	98.8	99.1	99.4	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	87.4	95.1	96.6	97.6	98.8	99.1	99.4	99.7	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7990

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING, FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	¾	½	≥5/16	≥¼	<¼
NO CEILING	65.8	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 20000	70.9	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 18000	71.0	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000	71.3	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 14000	72.4	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 12000	73.6	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 10000	77.3	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000	77.3	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000	80.3	81.0	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 7000	81.9	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 6000	83.9	85.0	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 5000	87.1	88.3	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 4500	87.4	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 4000	91.2	92.7	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500	91.8	93.2	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000	92.4	94.1	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500	93.0	95.0	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	93.6	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1800	93.6	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1500	94.0	96.6	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1200	95.4	98.1	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	95.7	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	95.7	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	95.7	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	95.7	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	95.7	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	95.7	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	95.7	98.6	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	95.8	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	95.8	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	95.8	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	95.8	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 (HOURS)

CEILING (HUNDREDS OF FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥⅞	≥¾	≥½	≥¼	0
NO CEILING	56.6	57.3	57.6	57.8	58.1	58.1	58.1	58.1	58.2	58.3	58.3	58.3	58.3	58.3	58.4	58.4
≥ 20000	63.8	64.6	64.8	65.0	65.3	65.3	65.3	65.3	65.4	65.6	65.6	65.6	65.6	65.6	65.7	65.7
≥ 18000	64.0	64.8	65.0	65.2	65.6	65.6	65.6	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.9	65.9
≥ 16000	64.2	65.0	65.2	65.4	65.8	65.8	65.8	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.1	66.1
≥ 14000	65.4	66.3	66.6	66.8	67.1	67.1	67.1	67.1	67.2	67.3	67.3	67.3	67.3	67.3	67.4	67.4
≥ 12000	67.3	68.2	68.4	68.7	69.0	69.0	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.3	69.3
≥ 10000	72.6	73.8	74.1	74.4	74.8	74.8	74.8	74.8	74.9	75.0	75.0	75.0	75.0	75.0	75.1	75.1
≥ 9000	72.7	73.9	74.2	74.6	74.9	74.9	74.9	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.2	75.2
≥ 8000	76.9	78.3	78.9	79.2	79.6	79.6	79.6	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.9	79.9
≥ 7000	78.6	80.1	80.8	81.1	81.4	81.4	81.4	81.4	81.6	81.7	81.7	81.7	81.7	81.7	81.8	81.8
≥ 6000	80.1	82.0	82.7	83.0	83.4	83.4	83.4	83.4	83.6	83.7	83.7	83.7	83.7	83.7	83.8	83.8
≥ 5000	82.2	84.3	85.0	85.4	85.9	85.9	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.2	86.2
≥ 4500	82.3	84.6	85.2	85.7	86.1	86.1	86.1	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.4	86.4
≥ 4000	86.0	88.4	89.2	89.7	90.1	90.1	90.1	90.1	90.2	90.3	90.3	90.3	90.3	90.3	90.4	90.4
≥ 3500	86.4	88.9	89.7	90.2	90.7	90.7	90.7	90.7	90.8	90.9	90.9	90.9	90.9	90.9	91.0	91.0
≥ 3000	87.3	90.1	90.9	91.6	92.0	92.0	92.0	92.0	92.1	92.2	92.2	92.2	92.2	92.2	92.3	92.3
≥ 2500	88.2	91.2	92.1	92.8	93.2	93.2	93.2	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.6	93.6
≥ 2000	88.9	91.9	92.8	93.4	93.9	93.9	93.9	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.2	94.2
≥ 1800	89.0	92.0	92.9	93.6	94.0	94.0	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.3	94.3
≥ 1500	90.2	93.2	94.1	94.8	95.2	95.2	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.6	95.6
≥ 1200	91.2	94.7	95.7	96.3	96.8	96.8	96.8	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.1	97.1
≥ 1000	91.8	95.2	96.2	97.0	97.4	97.4	97.4	97.4	97.6	97.7	97.7	97.7	97.8	97.8	97.9	97.9
≥ 900	91.9	95.3	96.4	97.3	98.0	98.0	98.0	98.0	98.1	98.2	98.2	98.2	98.3	98.3	98.4	98.4
≥ 800	91.9	95.3	96.4	97.3	98.1	98.1	98.1	98.1	98.2	98.3	98.3	98.3	98.4	98.4	98.6	98.6
≥ 700	91.9	95.3	96.4	97.3	98.1	98.1	98.1	98.1	98.2	98.4	98.4	98.4	98.6	98.6	98.7	98.7
≥ 600	92.0	95.4	96.6	97.4	98.2	98.2	98.2	98.2	98.3	98.6	98.6	98.6	98.7	98.7	98.8	98.8
≥ 500	92.0	95.6	96.9	97.8	98.6	98.6	98.6	98.6	98.7	98.9	98.9	98.9	99.0	99.0	99.1	99.1
≥ 400	92.0	95.6	96.9	97.8	98.7	98.7	98.7	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.2	99.2
≥ 300	92.0	95.6	96.9	97.8	98.7	98.7	98.7	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.2	99.2
≥ 200	92.0	95.6	96.9	97.8	98.7	98.7	98.8	98.9	99.0	99.2	99.2	99.2	99.3	99.3	99.4	99.4
≥ 100	92.0	95.6	96.9	97.8	98.7	98.7	98.8	98.9	99.0	99.2	99.2	99.2	99.4	99.4	99.7	99.8
≥ 0	92.0	95.6	96.9	97.8	98.7	98.7	98.8	98.9	99.0	99.2	99.2	99.2	99.4	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1¼	≥1	≥¾	≥½	≥¼	≥0		
NO CEILING	53.4	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9	54.9
≥ 20000	59.2	60.4	60.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0
≥ 18000	59.2	60.4	60.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0
≥ 16000	59.4	60.7	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.2	61.2
≥ 14000	60.9	62.2	62.4	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0
≥ 12000	63.9	65.2	65.4	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0
≥ 10000	68.7	70.0	70.2	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
≥ 9000	68.9	70.3	70.6	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4
≥ 8000	74.0	75.7	76.0	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0
≥ 7000	75.3	77.1	77.4	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4
≥ 6000	77.3	79.1	79.4	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4
≥ 5000	79.8	82.3	82.7	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7
≥ 4500	80.0	82.9	83.2	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2
≥ 4000	81.7	84.9	85.4	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4
≥ 3500	81.8	85.0	85.6	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6
≥ 3000	83.7	87.3	87.9	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9
≥ 2500	85.0	88.7	89.2	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2
≥ 2000	85.8	89.4	90.0	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2
≥ 1800	86.1	89.8	90.3	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.6	91.6
≥ 1500	87.7	91.4	92.0	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2
≥ 1200	88.2	92.2	92.9	93.8	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.6	94.6
≥ 1000	88.6	92.6	93.2	94.1	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	95.0	95.0
≥ 900	88.6	92.7	93.4	94.4	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4
≥ 800	88.6	93.3	94.2	95.2	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8
≥ 700	88.6	93.7	94.7	95.8	97.1	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6
≥ 600	88.8	94.1	95.2	96.3	97.8	97.9	98.0	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.6	98.6
≥ 500	88.8	94.2	95.3	96.4	97.9	98.1	98.2	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.8	98.8
≥ 400	88.8	94.2	95.3	96.4	98.0	98.3	98.4	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥ 300	88.8	94.2	95.3	96.4	98.1	98.4	98.8	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.6	99.6
≥ 200	88.8	94.2	95.3	96.6	98.2	98.6	98.9	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8
≥ 100	88.8	94.2	95.3	96.6	98.2	98.6	98.9	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.9
≥ 0	88.8	94.2	95.3	96.6	98.2	98.6	98.9	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0	≥5/16	≥¼	≥0
NO CEILING	52.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 20000	59.6	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 18000	59.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 16000	60.2	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 14000	61.8	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 12000	63.2	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 10000	68.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 9000	69.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 8000	72.1	74.4	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 7000	74.6	77.4	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000	76.3	79.8	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 5000	77.6	81.2	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500	77.9	81.7	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 4000	79.2	83.4	84.0	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 3500	79.8	84.0	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3000	80.8	85.4	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2500	83.1	87.9	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000	85.9	90.8	91.4	91.9	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1800	86.3	91.2	91.9	92.3	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1500	88.4	93.6	94.2	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200	89.4	95.0	95.7	96.4	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	89.4	95.1	95.8	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	89.8	95.8	96.6	97.4	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	89.8	95.9	96.7	97.6	98.1	98.2	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	89.8	96.0	96.8	97.7	98.2	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	89.9	96.2	97.1	98.1	98.8	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	89.9	96.6	97.4	98.4	99.2	99.3	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	89.9	96.7	97.6	98.6	99.3	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.9	96.7	97.6	98.6	99.3	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.9	96.7	97.6	98.6	99.3	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.9	96.7	97.6	98.6	99.3	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.9	96.7	97.6	98.6	99.3	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
≥ 22000	50.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 20000	60.7	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 18000	60.7	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 17000	61.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	61.7	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 12000	63.3	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 10000	68.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 9000	69.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	72.4	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 7000	74.0	76.4	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 6000	75.6	78.4	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 5000	78.5	81.5	82.0	82.1	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4500	79.2	82.2	82.8	82.8	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 4000	80.4	83.6	84.4	84.5	84.6	84.6	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3500	81.8	85.3	86.1	86.2	86.4	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3000	85.1	88.7	89.4	89.5	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 2500	87.8	91.4	92.2	92.3	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2000	89.7	93.7	94.4	94.5	94.9	95.0	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1800	90.1	94.2	95.0	95.1	95.4	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	91.7	95.9	96.7	96.9	97.2	97.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1200	92.2	96.4	97.2	97.4	97.9	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000	92.4	96.8	97.6	97.8	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	92.5	96.9	97.7	97.9	98.4	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	92.7	97.0	97.8	98.0	98.6	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	92.7	97.0	97.8	98.0	98.6	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	92.7	97.0	97.8	98.0	98.6	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
< 100	92.9	97.2	98.0	98.2	98.8	99.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 (HOUR)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0		
NO CEILING	51.9	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 20000	62.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 18000	62.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 16000	63.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 14000	64.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 12000	66.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	70.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 9000	71.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 8000	74.7	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000	75.8	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 6000	77.3	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 5000	80.7	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4500	81.8	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 4000	83.4	87.1	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3500	84.8	88.6	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3000	88.4	92.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2500	90.3	94.4	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	91.6	96.2	97.3	97.3	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1800	91.7	96.3	97.4	97.4	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1500	92.4	97.1	98.4	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	92.4	97.3	98.7	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	92.4	97.6	99.0	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	92.6	97.7	99.1	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	92.6	97.7	99.1	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	92.6	97.7	99.1	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.6	97.7	99.1	99.1	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

CEILING (FEET)	VISIBILITY (STATUTE MILES) ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	<¼
NO CEILING	57.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥20000	67.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 15000	67.4	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 10000	67.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000	69.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 8000	71.7	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 7000	75.1	77.4	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 6000	75.6	78.0	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 5000	78.9	81.4	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 4500	80.1	82.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 4000	82.0	84.9	85.0	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500	84.3	87.4	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3000	84.7	87.8	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 2500	87.2	90.7	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2000	88.1	91.8	92.0	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	91.0	94.7	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	91.6	95.8	96.2	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	92.3	96.9	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 900	92.3	96.9	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 800	92.8	97.4	98.0	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	92.8	97.8	98.3	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0
≥ 600	92.9	98.1	98.7	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
≥ 500	92.9	98.1	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 400	92.9	98.1	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 300	92.9	98.1	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 200	92.9	98.1	98.7	98.9	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8
≥ 100	92.9	98.1	98.7	98.9	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8
≥ 0	92.9	98.1	98.7	98.9	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9
	92.9	98.1	98.7	98.9	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9
	92.9	98.1	98.7	98.9	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9
	92.9	98.1	98.7	98.9	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9
	92.9	98.1	98.7	98.9	99.1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATION 2100-2300

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	9	8	7	6	5	4	3	2½	2	1½	1	¾	½	¼	0
NO CEILING	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62	2	62.2	62.2	62.2	62.2	62.2
≥ 20000	69.2	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.	.8	69.8	69.8	69.8	69.8	69.8
≥ 18000	69.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.	.0.3	70.3	70.3	70.3	70.3	70.3
≥ 16000	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 14000	71.6	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 12000	73.9	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000	77.1	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 9000	77.3	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000	81.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 7000	82.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 6000	84.2	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 5000	87.3	89.2	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 4500	87.6	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4000	90.4	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3500	91.4	93.4	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000	93.0	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2500	93.4	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000	94.6	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800	94.7	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500	95.0	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	95.2	98.2	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	95.3	98.7	99.1	99.2	99.3	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
< 100	95.3	98.7	99.2	99.3	99.4	99.4	99.6	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

56.2	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	
64.1	65.4	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	
64.3	65.6	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
64.7	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
66.1	67.4	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	
68.0	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	
72.3	73.8	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	
72.7	74.3	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	
76.3	78.1	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	
77.8	79.8	80.1	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	
79.6	82.0	82.3	82.5	82.6	82.6	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.7	
82.2	84.8	85.1	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	
82.6	85.3	85.6	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
85.0	87.9	88.4	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	
85.7	88.8	89.3	89.5	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
87.7	91.0	91.5	91.8	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1	
89.1	92.5	93.1	93.4	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7	
90.3	94.0	94.6	94.9	95.1	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
90.5	94.2	94.8	95.1	95.3	95.3	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
91.5	95.4	96.1	96.4	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	
92.1	96.2	96.9	97.3	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	
92.3	96.6	97.3	97.7	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.4	98.4	
92.4	96.7	97.5	97.9	98.3	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
92.4	96.8	97.6	98.1	98.6	98.7	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	
92.4	96.9	97.7	98.1	98.7	98.8	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
92.5	97.0	97.8	98.3	98.8	99.0	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	
92.5	97.1	98.0	98.4	99.0	99.2	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
92.5	97.1	98.0	98.4	99.0	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
92.5	97.1	98.0	98.5	99.1	99.3	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	
92.5	97.1	98.0	98.5	99.1	99.3	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	
92.5	97.1	98.0	98.5	99.1	99.3	99.5	99.6	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	
92.5	97.1	98.0	98.5	99.1	99.3	99.5	99.6	99.7	99.8	99.8	99.8	99.9	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0230

	71.1	73.0	73.2	73.4	73.8	73.9	74.0	74.1	74.2	74.2	74.2	74.2	74.5	74.5	74.5	7..5	
	75.8	77.8	78.1	78.3	78.7	78.8	78.9	79.0	79.1	79.1	79.1	79.1	79.5	79.5	79.5	79.5	
	76.2	78.3	78.5	78.7	79.1	79.2	79.4	79.5	79.6	79.6	79.6	79.6	79.9	79.9	79.9	79.9	
	76.2	78.3	78.5	78.7	79.1	79.2	79.4	79.5	79.6	79.6	79.6	79.6	79.9	79.9	79.9	79.9	
	76.9	78.9	79.1	79.4	79.8	79.9	80.0	80.1	80.2	80.2	80.2	80.2	80.5	80.5	80.5	80.5	
	78.0	80.2	80.4	80.6	81.1	81.2	81.3	81.4	81.5	81.5	81.5	81.5	81.8	81.8	81.8	81.8	
	81.1	83.9	84.1	84.3	84.7	84.8	84.9	85.1	85.2	85.2	85.2	85.2	85.5	85.5	85.5	85.5	
	81.6	84.4	84.6	84.8	85.3	85.4	85.5	85.6	85.7	85.7	85.7	85.7	86.0	86.0	86.0	86.0	
	83.0	85.8	86.0	86.2	86.7	86.8	86.9	87.0	87.1	87.1	87.1	87.1	87.4	87.4	87.4	87.4	
	84.1	87.1	87.3	87.5	88.0	88.1	88.2	88.3	88.4	88.4	88.4	88.4	88.7	88.7	88.7	88.7	
	85.4	88.6	88.8	89.0	89.5	89.6	89.7	89.8	89.9	89.9	89.9	89.9	90.2	90.2	90.2	90.2	
	87.3	90.8	91.0	91.2	91.6	91.7	91.9	92.0	92.2	92.2	92.2	92.2	92.5	92.5	92.5	92.5	
	88.0	91.6	91.8	92.0	92.5	92.6	92.8	92.9	93.0	93.0	93.0	93.0	93.3	93.3	93.3	93.3	
	89.1	92.9	93.2	93.4	93.9	94.1	94.3	94.4	94.5	94.5	94.5	94.5	94.8	94.8	94.8	94.8	
	89.4	93.7	94.0	94.3	94.7	94.9	95.2	95.3	95.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7	
	90.6	95.4	95.7	96.0	96.5	96.7	97.0	97.1	97.2	97.2	97.2	97.2	97.5	97.5	97.5	97.5	
	90.9	95.6	95.9	96.2	96.7	96.9	97.2	97.3	97.4	97.4	97.4	97.4	97.7	97.7	97.7	97.7	
	91.3	96.0	96.3	96.7	97.1	97.3	97.6	97.7	97.8	97.8	97.8	97.8	98.2	98.2	98.2	98.2	
	91.3	96.0	96.3	96.7	97.1	97.3	97.6	97.7	97.8	97.8	97.8	97.8	98.2	98.2	98.2	98.2	
	91.8	96.7	97.0	97.3	97.7	98.0	98.3	98.4	98.5	98.5	98.5	98.5	98.9	98.9	98.9	98.9	
	92.0	96.9	97.2	97.5	98.0	98.2	98.5	98.6	98.7	98.7	98.7	98.7	99.1	99.1	99.1	99.1	
	92.0	97.0	97.3	97.6	98.1	98.3	98.6	98.7	98.9	98.8	98.8	98.8	99.2	99.2	99.2	99.2	
	92.0	97.0	97.3	97.6	98.1	98.3	98.6	98.7	98.8	98.8	98.8	98.8	99.2	99.2	99.2	99.2	
	92.2	97.1	97.4	97.7	98.2	98.4	98.7	98.8	98.9	98.9	98.9	98.9	99.4	99.4	99.4	99.4	
	92.2	97.4	97.7	98.1	98.5	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.7	99.7	99.7	99.7	
	92.2	97.5	97.8	98.2	98.6	98.8	99.1	99.2	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	
	92.2	97.5	97.8	98.2	98.6	98.8	99.1	99.2	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	
	92.2	97.7	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	
	92.2	97.7	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	
	92.2	97.7	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	
	92.2	97.7	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	
	92.2	97.7	98.1	98.4	98.8	99.0	99.4	99.5	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0300-0500 (HOURS)

CEILING FEET	VISIBILITY IN STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	≥0	25/16	≥¼	≥0
NO CEILING	65.1	68.3	69.0	69.1	69.7	69.8	70.0	70.0	70.0	70.2	70.2	70.3	70.3	70.3	70.4	70.5
≥ 20000	71.5	75.2	75.9	76.0	76.6	76.7	76.9	76.9	76.9	77.1	77.1	77.2	77.2	77.2	77.3	77.4
≥ 18000	71.5	75.3	76.0	76.1	76.7	76.8	77.0	77.0	77.0	77.2	77.2	77.3	77.3	77.3	77.4	77.5
≥ 16000	71.7	75.5	76.2	76.3	76.9	77.0	77.2	77.2	77.2	77.4	77.4	77.5	77.5	77.5	77.6	77.7
≥ 14000	72.1	76.5	77.2	77.3	77.8	78.0	78.2	78.2	78.2	78.4	78.4	78.5	78.5	78.5	78.6	78.7
≥ 12000	73.4	77.2	78.0	78.1	78.6	78.7	78.9	78.9	78.9	79.1	79.1	79.2	79.2	79.2	79.4	79.5
≥ 11000	77.8	82.0	82.8	82.9	83.5	83.7	83.9	83.9	83.9	84.1	84.1	84.2	84.2	84.2	84.3	84.4
≥ 10000	78.0	82.2	82.9	83.0	83.7	83.8	84.0	84.0	84.0	84.2	84.2	84.3	84.3	84.3	84.4	84.5
≥ 9000	78.8	83.0	83.9	84.0	84.6	84.7	84.9	84.9	84.9	85.2	85.2	85.3	85.3	85.3	85.4	65.5
≥ 8000	80.1	84.4	85.3	85.4	86.0	86.1	86.3	86.3	86.3	86.6	86.6	86.7	86.7	86.7	86.8	86.9
≥ 7000	81.4	85.7	86.6	86.7	87.3	87.4	87.6	87.6	87.6	87.8	87.8	88.0	88.0	88.0	88.1	88.2
≥ 6000	83.5	88.2	89.0	89.2	89.9	90.0	90.2	90.2	90.2	90.4	90.4	90.5	90.5	90.5	90.6	90.8
≥ 5000	84.3	88.9	89.8	90.0	90.6	90.8	91.0	91.0	91.0	91.2	91.2	91.3	91.3	91.3	91.4	91.5
≥ 4500	85.4	90.9	92.0	92.5	93.1	93.2	93.4	93.4	93.4	93.7	93.7	93.8	93.8	93.8	93.9	94.0
≥ 4000	85.5	91.4	92.6	93.0	93.7	93.8	94.0	94.0	94.0	94.2	94.2	94.3	94.3	94.3	94.4	94.5
≥ 3500	86.3	92.3	93.4	93.9	94.6	94.7	94.9	94.9	94.9	95.2	95.2	95.3	95.3	95.3	95.4	95.5
≥ 3000	86.5	92.4	93.5	94.0	94.8	94.9	95.2	95.2	95.2	95.4	95.4	95.5	95.5	95.5	95.6	95.7
≥ 2500	86.9	92.8	94.0	94.4	95.3	95.4	95.6	95.6	95.6	95.8	95.8	95.9	95.9	95.9	96.0	96.1
≥ 2400	86.9	92.8	94.0	94.5	95.4	95.5	95.7	95.7	95.7	95.9	95.9	96.0	96.0	96.0	96.1	96.2
≥ 2200	87.4	93.3	94.5	95.2	96.0	96.1	96.3	96.3	96.3	96.6	96.6	96.7	96.7	96.7	96.8	96.9
≥ 2000	87.5	93.5	94.7	95.4	96.2	96.3	96.6	96.6	96.6	96.8	96.8	96.9	96.9	96.9	97.0	97.1
≥ 1800	87.7	93.8	94.9	95.6	96.6	96.7	96.9	96.9	96.9	97.1	97.1	97.2	97.2	97.2	97.3	97.4
≥ 1700	87.7	93.8	94.9	95.6	96.6	96.7	96.9	96.9	96.9	97.1	97.1	97.2	97.2	97.2	97.3	97.4
≥ 1600	87.7	93.8	95.1	95.8	96.8	96.9	97.1	97.1	97.1	97.3	97.3	97.4	97.4	97.4	97.5	97.6
≥ 1500	88.0	94.2	95.5	96.2	97.3	97.4	97.6	97.6	97.6	97.8	97.8	98.0	98.0	98.0	98.1	98.2
≥ 1400	88.1	94.4	95.7	96.6	97.7	97.8	98.1	98.1	98.1	98.3	98.3	98.4	98.4	98.4	98.5	98.6
≥ 1300	88.1	94.5	95.8	96.7	98.0	98.1	98.3	98.3	98.3	98.5	98.5	98.6	98.6	98.6	98.7	98.8
≥ 1200	88.2	94.8	96.1	97.0	98.3	98.4	98.6	98.6	98.6	98.8	98.8	98.9	98.9	98.9	99.1	99.4
≥ 1100	88.2	94.8	96.1	97.1	98.4	98.5	98.8	98.9	98.9	99.1	99.1	99.2	99.4	99.4	99.7	99.9
≥ 1000	88.2	94.8	96.1	97.1	98.4	98.5	98.8	98.9	98.9	99.1	99.1	99.2	99.4	99.4	99.7	99.9
≥ 900	88.2	94.8	96.1	97.1	98.4	98.5	98.8	98.9	98.9	99.1	99.1	99.2	99.4	99.4	99.7	100.0
< 900	88.2	94.8	96.1	97.1	98.4	98.5	98.8	98.9	98.9	99.1	99.1	99.2	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	56.7	59.0	59.7	59.8	60.1	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.5	60.5
≥20000	64.6	67.5	68.3	68.5	68.9	69.3	69.0	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.4	69.4
≥ 9000	64.7	67.6	68.4	68.6	69.0	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.5	69.5
≥ 5000	64.7	67.6	68.4	68.6	69.0	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.5	69.5
≥ 4400	66.6	69.6	70.3	70.5	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.4	71.4
≥ 2900	68.6	71.7	72.5	72.7	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.5	73.5
≥ 2000	71.9	75.7	76.6	76.8	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.6	77.6
1900	72.3	76.3	7 .2	77.4	77.8	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.3	78.3
≥ 1800	74.7	78.9	79.8	80.0	80.4	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.9	80.9
≥ 1700	76.5	80.6	81.5	81.7	82.3	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.6	82.6	82.7	82.7
≥ 1600	78.2	82.6	83.4	83.7	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.6	84.6
1500	80.1	84.7	85.6	85.8	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.8	86.8
≥ 1400	80.1	84.7	85.6	85.8	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.8	86.8
≥ 1300	81.1	86.1	87.1	87.3	88.0	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.5	88.5
≥ 1200	81.2	86.5	87.5	87.8	88.5	88.6	88.7	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.1	89.1
1100	82.7	88.3	89.4	89.7	90.3	90.4	90.5	90.8	90.8	90.8	90.8	90.8	90.9	90.9	91.0	91.0
≥ 1000	83.2	88.9	90.0	90.3	91.0	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.6	91.6
≥ 900	83.5	89.2	90.3	90.8	91.4	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.9	91.9	92.0	92.0
≥ 800	83.9	89.6	90.6	91.1	91.7	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.4	92.4
≥ 700	84.9	90.9	91.9	92.4	93.0	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.5	93.5	93.7	93.7
≥ 600	85.2	91.2	92.3	92.8	93.4	93.5	93.7	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.1	94.1
≥ 500	85.6	91.9	93.2	93.9	94.6	94.7	94.8	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.3	95.3
≥ 450	85.6	92.0	93.3	94.0	94.7	94.8	94.9	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.4	95.4
≥ 400	85.6	92.2	93.5	94.3	95.2	95.3	95.5	95.7	95.7	95.7	95.9	95.9	96.0	96.0	96.1	96.1
≥ 350	85.7	92.6	94.0	94.7	95.6	95.7	95.9	96.1	96.1	96.1	96.3	96.3	96.5	96.5	96.6	96.6
≥ 300	86.0	93.0	94.4	95.2	96.2	96.3	96.7	96.9	96.9	96.9	97.1	97.1	97.2	97.2	97.3	97.3
≥ 250	86.0	93.0	94.7	95.8	97.3	97.4	97.7	98.0	98.0	98.0	98.2	98.2	98.3	98.3	98.4	98.4
≥ 200	86.0	93.1	95.1	96.3	97.8	98.0	98.3	98.6	98.6	98.6	98.8	98.8	98.9	99.0	99.1	99.1
≥ 150	86.1	93.2	95.2	96.5	98.0	98.1	98.4	98.7	98.7	98.9	99.1	99.1	99.2	99.4	99.5	99.5
≥ 100	86.1	93.2	95.2	96.5	98.1	98.2	98.6	98.9	98.9	99.2	99.5	99.5	99.6	99.8	99.9	99.9
≥ 50	86.1	93.2	95.2	96.5	98.1	98.2	98.6	98.9	98.9	99.2	99.5	99.5	99.6	99.8	100.0	100.0
0	86.1	93.2	95.2	96.5	98.1	98.2	98.6	98.9	98.9	99.2	99.5	99.5	99.6	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 (LOCAL TIME)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0		
NO CEILING	59.5	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 20000	70.4	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 18000	70.5	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 16000	70.8	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 14000	72.4	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 12000	73.5	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 10000	76.3	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 9000	76.9	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 8000	78.9	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000	80.4	83.0	83.3	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 6000	81.8	84.8	85.3	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 5000	82.8	86.1	86.8	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 4500	83.0	86.3	87.0	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 4000	83.9	87.2	87.8	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3500	84.0	87.3	88.0	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000	86.0	89.8	90.4	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	86.9	90.8	91.4	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	88.6	92.9	93.5	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1800	88.9	93.2	93.9	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1500	90.1	94.6	95.3	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200	91.1	96.0	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	91.6	96.6	97.5	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	91.9	97.0	98.0	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	91.9	97.4	98.4	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	91.9	97.5	98.6	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	91.9	97.5	98.6	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
< 100	91.9	97.5	98.6	99.1	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS) 1200-1400

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥7	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	58.5	59.1	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 20000	69.6	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 18000	70.1	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000	70.4	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	72.0	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 12000	73.5	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000	77.6	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 9000	77.8	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 8000	79.9	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000	81.0	82.6	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 6000	82.0	83.9	84.2	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 5000	84.0	85.9	86.2	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 4500	84.4	86.3	86.7	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4000	86.6	88.8	89.1	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 3500	87.3	90.0	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 3000	90.2	93.4	93.8	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 2500	91.6	94.9	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 2000	93.7	97.1	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1800	93.7	97.1	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1500	93.9	97.5	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	94.2	98.0	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	94.5	98.4	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	94.5	98.4	98.9	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	94.5	98.4	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	94.5	98.4	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	94.5	98.4	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	94.6	98.5	99.0	99.2	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	94.6	98.5	99.2	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.6	98.5	99.2	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.6	98.5	99.2	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.6	98.5	99.2	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	94.6	98.5	99.2	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS) 1500-1700

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	<¼
NO CEILING	60.0	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000	70.4	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 8000	70.9	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 5000	71.3	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4500	71.2	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 3500	74.4	75.6	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3000	79.9	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2500	80.3	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000	82.7	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	84.6	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1600	86.6	88.1	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1400	88.3	90.2	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1200	88.5	90.4	90.8	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1000	91.2	93.2	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 900	91.9	94.1	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	94.5	97.0	97.3	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	95.5	98.3	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	95.7	98.8	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	95.7	98.8	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 450	95.8	98.9	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	95.9	99.2	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 350	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 250	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 150	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 050	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
< 050	95.9	99.2	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOUR)

CEILING (FEET)	VISIBILITY (STATUTE MILES) ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥¼	<¼
NO CEILING	65.3	66.3	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 25000	73.5	74.7	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 18000	74.1	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 14000	74.1	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000	74.9	76.1	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 10000	76.3	77.7	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 9000	81.2	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 8000	81.6	83.5	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000	84.1	86.5	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 6000	85.2	87.6	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 5000	86.2	88.7	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 4500	89.7	92.3	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 4000	89.7	92.3	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500	91.5	94.2	94.9	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 3000	91.8	94.5	95.3	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2500	94.0	96.8	97.5	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000	94.4	97.5	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	94.5	98.1	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1500	94.5	98.1	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	94.5	98.1	98.9	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	94.5	98.1	98.9	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
< 100	94.5	98.2	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	2	2½	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	70.4	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
	76.1	77.1	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
	76.8	77.7	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
	76.9	77.8	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
	77.1	78.7	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
	78.9	80.2	80.5	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	83.1	84.4	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	83.5	84.8	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
	85.6	87.1	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
	86.6	88.3	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
	88.4	90.5	90.9	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
	90.8	93.0	93.3	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
	91.3	93.5	93.9	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	93.0	95.8	96.1	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	93.2	96.1	96.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
	94.4	97.6	98.0	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
	94.4	97.6	98.0	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
	94.6	98.2	98.5	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	94.8	98.2	98.5	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	95.2	98.5	98.8	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	95.5	98.8	99.1	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	95.5	98.8	99.4	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	95.5	98.9	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOUR)

CEILING FEET	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥¾	≥½	≥¼	≥0	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	63.3	64.8	65.1	65.2	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	
≥ 20000	71.5	73.2	73.6	73.7	73.9	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	
≥ 18000	71.9	73.6	74.0	74.1	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5	
≥ 16000	72.0	73.8	74.2	74.2	74.4	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	
≥ 14000	73.1	74.9	75.3	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8	
≥ 12000	74.6	76.5	76.9	77.0	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	
≥ 10000	78.6	80.9	81.3	81.4	81.6	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.9	81.9	
≥ 9000	79.0	81.3	81.8	81.9	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	
≥ 8000	81.0	83.5	84.0	84.1	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.6	
≥ 7000	82.3	85.0	85.4	85.6	85.8	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	
≥ 6000	83.8	86.6	87.1	87.3	87.5	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	
≥ 5000	85.8	88.9	89.4	89.6	89.9	89.9	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.2	90.2	
≥ 4500	86.2	89.3	89.8	90.0	90.3	90.3	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.6	
≥ 4000	87.7	91.1	91.7	92.0	92.3	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	
≥ 3500	88.0	91.7	92.3	92.6	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.3
≥ 3000	89.9	93.8	94.4	94.7	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.5
≥ 2500	90.4	94.5	95.1	95.4	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.2
≥ 2000	91.1	95.4	96.0	96.3	96.7	96.8	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.1	97.1
≥ 1800	91.2	95.5	96.1	96.4	96.8	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.2	97.2	
≥ 1600	91.7	96.0	96.7	97.0	97.4	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.8	97.8	
≥ 1400	92.0	96.4	97.1	97.4	97.9	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	
≥ 1200	92.2	96.7	97.5	97.8	98.3	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.7	98.7	
≥ 1000	92.2	96.8	97.6	97.9	98.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.8	98.8	
≥ 900	92.2	96.9	97.7	98.1	98.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	99.0	99.0	99.0	99.0	
≥ 800	92.3	97.1	97.9	98.3	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	
≥ 700	92.3	97.2	98.0	98.4	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	
≥ 600	92.3	97.2	98.0	98.5	99.2	99.2	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	
≥ 500	92.4	97.3	98.2	98.6	99.3	99.4	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	
≥ 400	92.4	97.3	98.2	98.7	99.4	99.4	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	
≥ 300	92.4	97.3	98.2	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	100.0	
≥ 200	92.4	97.3	98.2	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	100.0	100.0	
0	92.4	97.3	98.2	98.7	99.4	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0200

	67.4	69.4	69.8	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
	72.3	74.4	74.8	75.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	72.3	74.4	74.8	75.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	72.3	74.4	74.8	75.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	72.9	75.1	75.5	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
	74.2	76.3	76.8	77.0	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
	78.3	80.1	80.6	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
	78.5	80.6	81.1	81.6	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
	82.8	84.9	85.6	85.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
	84.3	86.5	87.1	87.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
	84.4	86.6	87.2	87.5	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	87.0	89.5	90.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
	87.3	89.9	90.5	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
	88.4	91.5	92.3	92.8	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
	88.6	91.9	92.7	93.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	89.5	93.0	93.9	94.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	89.7	93.2	94.2	94.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	89.9	93.5	94.7	95.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
	89.9	93.8	94.9	95.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
	90.1	94.3	95.5	96.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
	90.3	94.6	95.8	96.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
	90.6	95.2	96.3	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	90.6	95.2	96.3	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	90.6	95.2	96.3	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	90.6	95.2	96.3	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	90.6	95.4	96.6	97.3	98.6	98.6	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	90.9	95.7	96.9	97.6	98.9	98.9	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	90.8	95.6	97.1	97.7	99.0	99.0	99.0	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	90.8	95.8	97.0	97.7	99.0	99.0	99.0	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	90.8	95.8	97.0	97.7	99.0	99.0	99.0	99.4	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0
	90.8	95.8	97.0	97.7	99.0	99.0	99.0	99.4	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-0500

59.6	62.3	62.8	63.2	63.9	63.9	64.0	64.3	64.3	64.5	64.5	64.5	64.7	64.7	64.7	64.7
63.5	66.2	66.8	67.2	67.8	67.8	68.0	68.3	68.3	68.5	68.5	68.5	68.7	68.7	68.7	68.7
63.8	66.5	67.0	67.4	68.1	68.1	68.2	68.5	68.5	68.7	68.7	68.7	68.9	68.9	68.9	68.9
63.8	66.5	67.0	67.4	68.1	68.1	68.2	68.5	68.5	68.7	68.7	68.7	68.9	68.9	68.9	68.9
64.3	67.0	67.5	68.0	68.6	68.6	68.7	69.0	69.0	69.2	69.2	69.2	69.5	69.5	69.5	69.5
66.1	68.9	69.5	69.9	70.5	70.5	70.6	71.0	71.0	71.2	71.2	71.2	71.4	71.4	71.4	71.4
72.0	75.2	75.7	76.1	76.8	76.8	76.9	77.2	77.2	77.4	77.4	77.4	77.6	77.6	77.6	77.6
72.4	75.5	76.0	76.5	77.1	77.1	77.2	77.5	77.5	77.7	77.7	77.7	78.0	78.0	78.0	78.0
76.8	80.4	81.0	81.4	82.0	82.0	82.2	82.5	82.5	82.7	82.7	82.7	82.9	82.9	82.9	82.9
77.8	81.6	82.2	82.7	83.3	83.3	83.4	83.8	83.8	84.0	84.0	84.0	84.2	84.2	84.2	84.2
78.6	82.4	82.9	83.4	84.1	84.1	84.2	84.5	84.5	84.7	84.7	84.7	84.9	84.9	84.9	84.9
80.9	84.7	85.3	85.8	86.5	86.5	86.6	86.9	86.9	87.1	87.1	87.1	87.3	87.3	87.3	87.3
81.1	84.9	85.5	86.0	86.7	86.7	86.8	87.1	87.1	87.3	87.3	87.3	87.5	87.5	87.5	87.5
82.8	87.4	88.1	88.6	89.4	89.4	89.5	89.8	89.8	90.0	90.0	90.0	90.2	90.2	90.2	90.2
83.9	88.5	89.1	89.7	90.4	90.4	90.5	90.9	90.9	91.1	91.1	91.1	91.3	91.3	91.3	91.3
85.2	90.2	90.9	91.4	92.3	92.3	92.4	92.7	92.7	92.9	92.9	92.9	93.1	93.1	93.1	93.1
85.4	90.5	91.2	91.8	92.7	92.7	92.8	93.1	93.1	93.3	93.3	93.3	93.5	93.5	93.5	93.5
85.8	91.1	91.8	92.5	93.7	93.7	93.8	94.1	94.1	94.3	94.3	94.3	94.5	94.5	94.5	94.5
85.9	91.2	91.9	92.6	93.8	93.8	93.9	94.2	94.2	94.4	94.4	94.4	94.6	94.6	94.6	94.6
86.6	91.9	92.9	93.5	94.7	94.7	94.8	95.2	95.2	95.4	95.4	95.4	95.6	95.6	95.6	95.6
86.7	92.5	93.4	94.1	95.3	95.3	95.4	95.7	95.7	95.9	95.9	95.9	96.1	96.1	96.1	96.1
87.0	93.0	94.0	94.7	95.9	95.9	96.0	96.3	96.3	96.6	96.6	96.6	96.8	96.8	96.8	96.8
87.1	93.1	94.1	94.8	96.0	96.0	96.1	96.5	96.5	96.7	96.7	96.7	96.9	96.9	96.9	96.9
87.1	93.1	94.1	94.8	96.0	96.0	96.1	96.5	96.5	96.7	96.7	96.7	96.9	96.9	96.9	96.9
87.1	93.1	94.1	94.8	96.0	96.0	96.1	96.5	96.5	96.7	96.7	96.7	96.9	96.9	96.9	96.9
87.1	93.1	94.1	94.8	96.1	96.1	96.5	96.8	96.8	97.1	97.1	97.1	97.3	97.3	97.3	97.3
87.4	93.7	94.6	95.4	96.7	96.7	97.0	97.3	97.3	97.6	97.6	97.6	97.8	97.8	97.8	97.8
87.5	93.8	94.7	95.5	96.9	96.9	97.2	97.5	97.5	98.0	98.0	98.0	98.2	98.2	98.2	98.2
87.5	93.8	94.9	95.7	97.2	97.2	97.6	98.3	98.3	98.9	98.9	98.9	99.1	99.1	99.1	99.1
87.5	93.9	95.1	95.8	97.3	97.3	97.7	98.4	98.6	99.4	99.4	99.4	99.6	99.6	99.6	99.6
87.5	94.0	95.2	95.9	97.4	97.4	98.1	98.7	98.9	99.7	99.7	99.7	99.9	99.9	99.9	99.9
87.5	94.0	95.2	95.9	97.4	97.4	98.1	98.7	98.9	99.7	99.7	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-0800

	20	21	24													
46.7	51.8	53.4	54.3	55.2	55.3	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.9	56.0	56.2	56.2
53.0	59.1	60.9	61.9	62.8	62.9	63.2	63.5	63.5	63.5	63.5	63.5	63.7	63.8	64.0	64.0	
53.4	59.7	61.4	62.5	63.3	63.4	63.8	64.1	64.1	64.1	64.1	64.1	64.2	64.3	64.5	64.5	
53.4	59.7	61.4	62.5	63.3	63.4	63.8	64.1	64.1	64.1	64.1	64.1	64.2	64.3	64.5	64.5	
55.1	61.5	63.2	64.3	65.2	65.3	65.6	66.0	66.0	66.0	66.0	66.0	66.1	66.2	66.5	66.5	
56.3	62.8	64.5	65.6	66.5	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.4	67.5	67.7	67.7	
61.2	67.6	69.4	70.4	71.3	71.4	71.8	72.4	72.4	72.4	72.4	72.4	72.5	72.6	72.8	72.8	
62.2	68.7	70.4	71.5	72.4	72.5	72.9	73.4	73.4	73.4	73.4	73.4	73.5	73.7	73.9	73.9	
66.0	72.9	74.6	75.7	76.6	76.7	77.1	77.6	77.6	77.6	77.6	77.6	77.7	77.8	78.1	78.1	
67.0	73.9	75.7	76.8	77.6	77.7	78.2	78.7	78.7	78.7	78.7	78.7	78.8	78.9	79.1	79.1	
68.5	75.9	77.7	78.8	79.7	79.8	80.2	80.8	80.8	80.8	80.8	80.8	80.9	81.0	81.2	81.2	
69.7	77.3	79.4	80.4	81.3	81.4	81.8	82.4	82.4	82.4	82.4	82.4	82.5	82.6	82.8	82.8	
69.8	77.4	79.5	80.5	81.5	81.6	82.0	82.6	82.6	82.6	82.6	82.6	82.7	82.8	83.0	83.0	
71.3	79.1	81.3	82.6	83.8	83.9	84.3	84.8	84.8	84.8	84.8	84.8	84.9	85.1	85.3	85.3	
72.3	80.0	82.3	83.7	84.9	85.1	85.5	86.0	86.0	86.0	86.0	86.0	86.1	86.2	86.5	86.5	
73.8	82.4	84.6	86.1	87.7	87.8	88.3	88.8	88.8	88.8	88.8	88.8	88.9	89.0	89.2	89.2	
73.9	82.6	84.8	86.3	88.0	88.1	88.5	89.0	89.0	89.0	89.0	89.0	89.1	89.2	89.5	89.5	
74.7	83.7	86.3	87.5	89.1	89.4	89.8	90.3	90.3	90.3	90.3	90.3	90.4	90.5	90.8	90.8	
74.9	83.9	86.2	87.7	89.4	89.6	90.0	90.5	90.5	90.5	90.5	90.5	90.6	90.8	91.0	91.0	
75.6	84.9	87.5	89.1	90.9	91.1	91.5	92.0	92.0	92.0	92.0	92.0	92.2	92.3	92.5	92.5	
76.1	85.6	88.2	90.1	91.9	92.2	92.6	93.1	93.1	93.1	93.1	93.1	93.2	93.3	93.5	93.5	
76.3	86.0	88.6	90.5	92.5	92.8	93.3	93.9	93.9	93.9	93.9	93.9	94.0	94.1	94.3	94.3	
76.7	86.3	88.9	90.9	92.8	93.1	93.7	94.2	94.2	94.3	94.3	94.3	94.4	94.5	94.7	94.7	
77.0	86.7	89.2	91.2	93.3	93.7	94.2	94.7	94.7	94.8	94.8	94.8	94.9	95.1	95.3	95.3	
77.1	86.8	89.5	91.4	93.5	93.9	94.4	94.9	94.9	95.1	95.1	95.1	95.2	95.3	95.5	95.5	
77.2	87.0	89.7	91.6	93.9	94.2	94.7	95.3	95.3	95.4	95.4	95.4	95.5	95.6	95.8	95.8	
77.6	87.6	90.4	92.6	94.9	95.3	95.9	96.5	96.5	96.6	96.6	96.6	96.7	96.8	97.0	97.0	
77.7	87.8	90.9	93.0	95.4	95.7	96.3	97.0	97.0	97.3	97.3	97.3	97.5	97.6	97.8	97.8	
77.7	88.0	91.0	93.1	95.5	95.9	96.8	97.4	97.6	98.1	98.2	98.2	98.5	98.6	98.9	98.9	
77.7	88.0	91.1	93.2	95.6	96.0	96.9	97.5	97.7	98.3	98.4	98.4	98.8	98.9	99.4	99.5	
77.7	88.0	91.2	93.3	95.7	96.1	97.1	97.7	98.0	98.5	98.6	98.6	99.0	99.1	99.6	99.9	
77.7	88.0	91.2	93.3	95.7	96.1	97.1	97.7	98.0	98.5	98.6	98.6	99.0	99.1	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0900-1100

51.6	55.8	56.1	56.3	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
59.1	64.1	64.5	64.8	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
59.7	64.9	65.4	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
59.7	64.9	65.4	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
60.4	65.8	66.2	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
62.4	67.8	68.3	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
65.8	71.5	71.9	72.3	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
66.6	72.4	72.8	73.1	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
68.8	75.1	75.5	75.8	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
69.6	76.0	76.5	76.8	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
70.5	77.1	77.5	77.8	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
71.8	79.2	79.8	80.2	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
71.9	79.4	79.9	80.3	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
73.1	81.0	81.6	82.5	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
73.8	81.7	82.4	83.2	83.5	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
76.3	84.6	85.3	86.1	86.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
77.4	85.9	86.6	87.4	88.0	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
78.6	87.3	88.2	89.0	89.6	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
79.1	87.7	88.8	89.7	90.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
79.6	88.5	89.6	90.4	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
80.6	90.0	91.3	92.3	92.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
81.4	91.0	92.4	93.3	94.0	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
81.9	91.5	93.1	94.2	94.8	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
82.2	91.7	93.3	94.4	95.2	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
82.5	92.5	94.3	95.4	96.1	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
82.6	92.6	94.5	95.6	96.5	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
82.8	93.2	95.3	96.3	97.4	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
82.9	93.4	95.7	96.8	97.8	98.6	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
82.9	93.4	95.8	96.9	98.0	99.0	99.2	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
82.9	93.4	95.8	96.9	98.0	99.0	99.2	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
82.9	93.4	95.8	96.9	98.0	99.0	99.2	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
82.9	93.4	95.8	96.9	98.0	99.0	99.2	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

52.1	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
59.7	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
59.8	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
59.8	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
61.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
63.1	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
68.2	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
68.9	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
71.1	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
71.7	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
72.5	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
75.3	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
75.4	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
78.1	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
79.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
81.1	89.4	89.7	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
82.9	91.6	91.9	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
85.1	93.9	94.2	94.3	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
85.4	94.4	94.8	94.9	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
86.3	95.7	96.1	96.2	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
87.3	97.2	97.7	98.0	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
87.4	97.3	98.1	98.3	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
87.7	97.8	98.6	98.8	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
88.1	98.2	98.9	99.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
88.1	98.3	99.0	99.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
88.1	98.3	99.0	99.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
88.1	98.3	99.0	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC ... OBSOLETE ...

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

52.1	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	
60.6	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
61.0	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	
61.1	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	
61.3	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	
63.1	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
67.5	74.7	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	
68.1	75.4	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	
72.4	79.7	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	
73.0	80.6	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	
74.2	82.1	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
76.9	85.2	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
77.5	85.8	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	
80.2	89.1	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	
80.6	89.9	90.6	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	
83.3	92.9	93.8	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
85.4	95.5	96.3	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
86.0	96.2	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	
86.2	96.6	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
86.5	96.8	97.6	98.0	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	
86.9	97.6	98.5	98.8	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
86.9	97.6	98.5	98.8	99.1	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
86.9	97.6	98.5	98.8	99.1	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
86.9	97.8	98.7	99.0	99.4	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
86.9	98.0	98.8	99.1	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC [illegible] 0-14-5 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1800-2000

56.2	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
63.0	68.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
63.9	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
63.9	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
64.1	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
65.7	72.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
69.8	76.7	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
70.9	78.1	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
74.6	82.0	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
75.3	82.8	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
77.1	85.2	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
79.8	88.1	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
80.4	88.7	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
82.9	92.2	92.5	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
83.2	92.6	93.0	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
85.6	95.6	96.1	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
86.1	96.3	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
86.1	97.1	97.8	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
86.1	97.1	97.8	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
86.2	97.2	98.0	98.5	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
86.2	97.2	98.0	98.5	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
86.2	97.2	98.1	98.6	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
86.2	97.2	98.1	98.6	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
86.2	97.3	98.2	98.8	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
86.2	97.4	98.3	99.0	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
86.2	97.4	98.3	99.0	99.2	99.2	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.2	97.4	98.4	99.1	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC [illegible] 0-14-5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

64.4	68.4	68.6	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
71.0	74.9	75.2	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	
71.3	75.3	75.5	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	
71.3	75.3	75.5	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	
71.7	75.7	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	
73.9	78.0	78.2	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	
77.8	81.9	82.2	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	
78.9	83.0	83.2	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	
82.3	86.5	86.7	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	
82.9	87.2	87.5	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	
83.5	88.0	88.3	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	
84.9	90.3	90.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
84.9	90.3	90.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
86.0	92.4	92.7	93.1	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	
86.1	92.7	93.0	93.4	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	
88.1	95.3	95.6	96.0	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	
88.9	96.1	96.8	97.2	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
89.2	96.6	97.2	97.6	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	
89.2	97.0	97.6	98.1	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
89.5	97.3	98.0	98.4	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
89.5	97.3	98.0	98.4	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
89.5	97.3	98.0	98.4	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
89.5	97.3	98.0	98.4	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
89.5	97.3	98.1	98.5	98.9	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
89.5	97.4	98.2	98.6	99.0	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
89.5	97.5	98.3	98.7	99.1	99.2	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89.5	97.6	98.4	98.8	99.2	99.4	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

56.3	60.4	60.8	61.1	61.3	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6		
62.8	67.5	68.0	68.3	68.5	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8		
63.1	67.9	68.4	68.7	69.0	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2		
63.1	67.9	68.4	68.7	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.3	69.3		
63.9	68.8	69.3	69.6	69.9	69.9	69.9	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1		
65.6	70.6	71.1	71.4	71.7	71.7	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0		
70.0	75.3	75.8	76.2	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8		
70.8	76.1	76.7	77.0	77.3	77.4	77.4	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6		
74.3	79.9	80.5	80.8	81.1	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4		
75.2	80.9	81.5	81.8	82.1	82.2	82.2	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4		
76.2	82.0	82.6	83.0	83.3	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6		
78.3	84.6	85.3	85.7	86.0	86.0	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3		
78.5	84.9	85.6	86.0	86.3	86.4	86.4	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.7		
80.3	87.3	88.0	88.6	89.1	89.1	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4		
80.9	88.0	88.8	89.4	89.9	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2		
82.8	90.4	91.2	91.8	92.4	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8		
83.7	91.5	92.4	93.0	93.6	93.7	93.8	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0		
84.4	92.4	93.4	94.0	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1		
84.6	92.7	93.7	94.4	95.1	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.5	95.5		
85.0	93.3	94.4	95.1	95.8	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3		
85.5	94.0	95.1	95.8	96.6	96.7	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1		
85.7	94.3	95.5	96.2	97.0	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6		
85.8	94.5	95.7	96.5	97.2	97.4	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.9	97.9		
85.9	94.7	95.9	96.6	97.5	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1		
86.3	94.8	96.1	96.8	97.7	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3		
86.0	94.9	96.1	96.9	97.8	97.9	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5		
86.2	95.1	96.4	97.3	98.2	98.3	98.6	98.7	98.8	98.9	98.9	98.9	98.9	98.9	99.0	99.0		
86.2	95.3	96.6	97.4	98.3	98.5	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.3	99.3		
86.2	95.3	96.7	97.5	98.4	98.6	99.0	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7		
86.2	95.3	96.7	97.5	98.5	98.7	99.0	99.3	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8		
86.2	95.3	96.7	97.5	98.5	98.7	99.1	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0		
86.2	95.3	96.7	97.5	98.5	98.7	99.1	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0		

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-0200

	66.9	68.3	69.3	68.3	68.4	68.4	68.4	68.4	68.4	68.7	68.7	68.7	68.9	69.0	69.1	69.3
	69.6	71.1	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.6	71.6	71.6	71.8	71.9	72.0	72.2
	69.8	71.3	71.3	71.4	71.6	71.6	71.6	71.6	71.6	71.8	71.8	71.8	72.0	72.1	72.2	72.4
	69.8	71.3	71.3	71.4	71.6	71.6	71.6	71.6	71.6	71.8	71.8	71.8	72.0	72.1	72.2	72.4
	70.0	71.6	71.6	71.7	71.8	71.8	71.8	71.8	71.8	72.0	72.0	72.0	72.2	72.3	72.4	72.7
	71.2	72.8	72.8	72.9	73.0	73.0	73.0	73.0	73.0	73.2	73.2	73.2	73.4	73.6	73.7	73.9
	74.3	75.9	75.9	76.0	76.2	76.2	76.2	76.2	76.2	76.4	76.4	76.4	76.7	76.8	76.9	77.1
	74.9	76.4	76.4	76.6	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.2	77.3	77.4	77.7
	76.0	77.7	77.7	77.8	78.0	78.0	78.0	78.0	78.0	78.2	78.2	78.2	78.4	78.6	78.7	78.9
	76.4	78.6	78.6	78.7	78.9	79.0	79.0	79.0	79.0	79.2	79.2	79.2	79.4	79.6	79.7	79.9
	77.4	79.7	79.7	79.8	80.0	80.1	80.1	80.1	80.1	80.3	80.3	80.3	80.6	80.7	80.8	81.0
	78.7	81.2	81.2	81.3	81.6	81.7	81.7	81.7	81.7	81.9	81.9	81.9	82.1	82.2	82.3	82.6
	79.8	82.3	82.3	82.4	82.7	82.8	82.8	82.8	82.8	83.0	83.0	83.0	83.2	83.3	83.4	83.7
	82.7	85.2	85.2	85.3	85.6	85.7	85.7	85.7	85.7	85.9	85.9	85.9	86.1	86.2	86.3	86.6
	83.0	85.6	85.7	85.8	86.0	86.1	86.1	86.1	86.1	86.3	86.3	86.3	86.6	86.7	86.8	87.0
	84.6	87.3	87.4	87.6	87.8	87.9	87.9	87.9	87.9	88.1	88.1	88.1	88.3	88.4	88.6	88.8
	85.4	88.3	88.4	88.6	88.8	88.9	88.9	88.9	88.9	89.1	89.1	89.1	89.3	89.4	89.6	89.8
	86.0	88.9	89.1	89.1	89.3	89.4	89.4	89.4	89.4	89.7	89.7	89.7	89.9	90.0	90.1	90.3
	86.7	89.6	89.7	89.8	90.0	90.1	90.1	90.1	90.1	90.3	90.3	90.3	90.6	90.7	90.8	91.0
	86.9	89.9	90.3	90.4	90.7	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.3	91.4	91.7	91.9
	87.8	91.1	91.6	91.7	91.9	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.6	92.7	93.0	93.2
	89.1	92.9	93.3	93.4	93.7	93.8	93.8	93.8	93.8	94.0	94.0	94.0	94.3	94.4	94.8	95.0
	90.0	93.8	94.2	94.3	94.9	95.0	95.0	95.0	95.0	95.2	95.2	95.2	95.6	95.7	96.0	96.2
	90.1	94.1	94.7	94.9	95.4	95.6	95.7	95.7	95.7	95.9	95.9	95.9	96.2	96.3	96.7	96.9
	90.2	94.6	95.3	95.7	96.4	96.6	96.7	96.7	96.7	97.0	97.0	97.0	97.3	97.4	97.8	98.0
	90.4	94.8	95.6	95.9	96.7	96.8	96.9	96.9	96.9	97.2	97.3	97.3	97.7	97.8	98.1	98.3
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	97.8	97.8	98.1	98.2	98.2	98.6	98.7	99.0	99.2
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	97.8	97.8	98.1	98.2	98.2	98.8	98.9	99.2	99.4
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	98.1	98.1	98.4	98.6	98.6	99.2	99.3	99.7	99.9
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	98.1	98.1	98.4	98.6	98.6	99.3	99.4	99.8	100.0
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	98.1	98.1	98.4	98.6	98.6	99.3	99.4	99.8	100.0
	91.0	95.3	96.1	96.4	97.4	97.7	97.8	98.1	98.1	98.4	98.6	98.6	99.3	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-0500

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0	≥¼	≥0
	61.9	64.0	64.1	64.3	64.4	64.4	64.4	64.7	64.7	64.7	64.8	64.8	64.8	65.0	65.4	65.4
	64.4	66.6	66.7	66.9	67.0	67.0	67.0	67.2	67.2	67.2	67.3	67.3	67.3	67.6	68.0	68.0
	64.4	66.6	66.7	66.9	67.0	67.0	67.0	67.2	67.2	67.2	67.3	67.3	67.3	67.6	68.0	68.0
	64.7	66.8	66.9	67.1	67.2	67.2	67.2	67.4	67.4	67.4	67.6	67.6	67.6	67.8	68.2	68.2
4000	65.2	67.3	67.4	67.7	67.8	67.8	67.8	68.0	68.0	68.0	68.1	68.1	68.1	68.3	68.8	68.8
	66.4	68.6	68.7	68.9	69.0	69.0	69.0	69.2	69.2	69.2	69.3	69.3	69.3	69.6	70.0	70.0
10000	70.1	72.4	72.6	72.8	72.9	72.9	72.9	73.1	73.1	73.1	73.2	73.2	73.2	73.4	73.9	73.9
9000	70.4	72.8	72.9	73.1	73.2	73.2	73.2	73.4	73.4	73.4	73.6	73.6	73.6	73.8	74.2	74.2
8000	72.4	74.8	74.9	75.1	75.2	75.2	75.2	75.4	75.4	75.4	75.6	75.6	75.6	75.8	76.2	76.2
7000	73.7	76.1	76.2	76.4	76.6	76.6	76.6	76.8	76.8	76.8	76.9	76.9	76.9	77.1	77.6	77.6
6000	75.1	77.6	78.0	78.2	78.3	78.3	78.3	78.6	78.6	78.6	78.7	78.7	78.7	78.9	79.3	79.3
5000	76.2	79.0	79.2	79.4	79.6	79.6	79.6	79.8	79.8	79.8	79.9	79.9	79.9	80.1	80.6	80.6
4500	76.9	79.7	79.9	80.1	80.2	80.2	80.2	80.4	80.4	80.4	80.6	80.6	80.6	80.8	81.2	81.2
4000	78.9	82.0	82.2	82.4	82.6	82.6	82.6	82.8	82.8	82.8	82.9	82.9	82.9	83.1	83.6	83.6
3500	79.7	82.8	83.0	83.2	83.3	83.3	83.3	83.6	83.6	83.6	83.7	83.7	83.7	83.9	84.3	84.3
3000	82.2	85.7	85.9	86.2	86.3	86.3	86.3	86.6	86.6	86.6	86.7	86.8	86.8	87.0	87.4	87.4
2500	83.2	86.8	87.0	87.3	87.4	87.4	87.4	87.7	87.7	87.7	87.8	87.9	87.9	88.1	88.6	88.6
2000	83.8	87.3	87.6	87.9	88.0	88.0	88.0	88.2	88.2	88.2	88.3	88.4	88.4	88.7	89.1	89.1
1800	84.2	87.8	88.0	88.3	88.4	88.4	88.4	88.7	88.7	88.7	88.8	88.9	88.9	89.1	89.6	89.6
1500	84.8	88.3	88.7	89.0	89.1	89.1	89.1	89.3	89.3	89.3	89.4	89.6	89.6	89.8	90.2	90.2
1200	85.8	89.8	90.2	90.6	90.7	90.7	90.7	90.9	90.9	90.9	91.0	91.1	91.1	91.3	92.1	92.1
1000	87.2	91.2	91.8	92.1	92.2	92.2	92.2	92.4	92.4	92.4	92.6	92.7	92.7	92.9	93.7	93.7
900	87.7	91.7	92.3	92.8	93.0	93.0	93.0	93.2	93.2	93.2	93.3	93.4	93.4	93.7	94.4	94.4
800	88.3	92.4	93.2	94.0	94.2	94.2	94.2	94.4	94.4	94.4	94.6	94.7	94.7	94.9	95.7	95.7
700	88.7	93.2	94.0	95.0	95.2	95.2	95.2	95.4	95.4	95.4	95.6	95.7	95.7	95.9	96.7	96.7
600	88.9	93.6	94.4	95.4	96.0	96.0	96.1	96.3	96.3	96.3	96.4	96.6	96.6	96.8	97.6	97.6
500	89.1	93.8	94.8	95.8	96.4	96.4	96.6	96.8	96.8	96.8	96.9	97.0	97.0	97.2	98.0	98.0
400	89.1	94.1	95.1	96.1	97.0	97.0	97.1	97.3	97.3	97.3	97.4	97.6	97.7	97.9	98.8	98.8
300	89.1	94.2	95.2	96.2	97.1	97.1	97.8	98.1	98.1	98.1	98.2	98.3	98.4	98.7	99.7	99.7
200	89.1	94.2	95.2	96.2	97.2	97.2	98.0	98.3	98.3	98.4	98.6	98.7	98.8	99.0	100.0	100.0
100	89.1	94.2	95.2	96.2	97.2	97.2	98.0	98.3	98.3	98.4	98.6	98.7	98.8	99.0	100.0	100.0
0	89.1	94.2	95.2	96.2	97.2	97.2	98.0	98.3	98.3	98.4	98.6	98.7	98.8	99.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-2800

VISIBILITY STATUTE MILES

CEILING FEET	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	11	12	13	14	15	16
[illegible]	53.8	56.8	57.2	57.3	57.8	57.8	57.9	57.9	57.9	58.0	58.0	58.1	58.2	58.2	58.3	58.3		
[illegible]	57.4	60.9	61.3	61.4	61.9	61.9	62.0	62.0	62.0	62.1	62.1	62.2	62.3	62.3	62.4	62.4		
[illegible]	57.4	60.9	61.3	61.4	61.9	61.9	62.0	62.0	62.0	62.1	62.1	62.2	62.3	62.3	62.4	62.4		
[illegible]	57.4	60.9	61.3	61.4	61.9	61.9	62.0	62.0	62.0	62.1	62.1	62.2	62.3	62.3	62.4	62.4		
400	58.0	61.4	61.9	62.0	62.4	62.4	62.6	62.6	62.6	62.7	62.7	62.8	62.9	62.9	63.0	63.0		
300	59.1	62.7	63.1	63.2	63.7	63.7	63.8	63.8	63.8	63.9	63.9	64.0	64.1	64.1	64.2	64.2		
200	62.1	65.9	66.3	66.4	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.2	67.3	67.3	67.4	67.4		
150	62.6	66.3	66.8	66.9	67.3	67.3	67.4	67.4	67.4	67.6	67.6	67.7	67.8	67.8	67.9	67.9		
100	65.2	69.2	69.7	69.8	70.2	70.2	70.3	70.3	70.3	70.4	70.4	70.6	70.7	70.7	70.8	70.8		
80	66.3	70.4	70.9	71.0	71.4	71.4	71.6	71.6	71.6	71.7	71.7	71.8	71.9	71.9	72.0	72.0		
60	67.8	72.0	72.4	72.6	73.0	73.0	73.1	73.1	73.1	73.2	73.2	73.3	73.4	73.4	73.6	73.6		
50	69.6	74.0	74.6	74.7	75.1	75.1	75.2	75.2	75.2	75.3	75.3	75.4	75.6	75.6	75.7	75.7		
40	70.1	74.7	75.2	75.3	75.8	75.8	75.9	75.9	75.9	76.0	76.0	76.1	76.2	76.2	76.3	76.3		
30	72.9	77.9	78.4	78.6	79.0	79.0	79.1	79.1	79.1	79.2	79.2	79.3	79.4	79.4	79.6	79.6		
20	73.9	79.0	79.6	79.7	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.4	80.6	80.6	80.7	80.7		
15	76.2	81.7	82.2	82.3	82.9	82.9	83.0	83.1	83.1	83.2	83.2	83.3	83.4	83.4	83.6	83.6		
12	76.8	82.4	83.0	83.1	83.7	83.8	83.9	84.0	84.0	84.1	84.1	84.2	84.3	84.3	84.4	84.4		
10	78.0	83.7	84.4	84.6	85.1	85.2	85.6	85.7	85.7	85.8	85.8	85.9	86.0	86.0	86.1	86.1		
9	78.4	84.2	85.0	85.1	85.7	85.8	86.1	86.2	86.2	86.3	86.3	86.4	86.6	86.6	86.7	86.7		
8	79.9	85.8	86.6	86.7	87.2	87.3	87.8	87.9	87.9	88.0	88.0	88.1	88.2	88.2	88.3	88.3		
7	80.9	87.0	87.8	88.0	88.7	88.8	89.2	89.3	89.3	89.4	89.4	89.6	89.7	89.7	89.8	89.8		
6	83.2	89.6	90.4	90.7	91.3	91.4	91.9	92.0	92.0	92.1	92.1	92.2	92.3	92.3	92.4	92.4		
5	83.9	90.3	91.2	91.4	92.1	92.2	92.8	92.9	92.9	93.0	93.0	93.1	93.2	93.2	93.3	93.3		
4	84.7	91.4	92.4	92.9	93.7	93.8	94.3	94.6	94.6	94.7	94.7	94.8	94.9	94.9	95.0	95.0		
3	85.1	92.0	93.1	93.7	94.6	94.7	95.4	95.7	95.7	95.8	95.8	95.9	96.0	96.0	96.1	96.1		
2	85.1	92.0	93.1	93.7	94.7	94.8	95.7	95.9	95.9	96.0	96.0	96.1	96.2	96.2	96.3	96.3		
1	85.2	92.2	93.6	94.1	95.3	95.4	96.4	96.7	96.7	96.8	96.9	97.0	97.1	97.1	97.2	97.2		
0	85.2	92.3	93.7	94.3	95.8	95.9	97.2	97.4	97.4	97.6	97.7	97.8	97.9	97.9	98.1	98.1		
[illegible]	85.2	92.3	93.8	94.4	96.0	96.1	97.7	98.1	98.2	98.3	98.4	98.6	98.7	98.7	99.0	99.3		
[illegible]	85.2	92.3	93.8	94.4	96.0	96.1	97.8	98.2	98.3	98.4	98.6	98.7	98.9	98.9	99.3	99.7		
[illegible]	85.2	92.3	93.8	94.4	96.0	96.1	97.8	98.2	98.3	98.4	98.7	98.8	99.0	99.0	99.4	99.8		
[illegible]	85.2	92.3	93.8	94.4	96.0	96.1	97.8	98.2	98.3	98.4	98.7	98.8	99.0	99.0	99.4	100.0		

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0900-1100

52.9	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
58.1	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
58.2	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
58.2	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
59.1	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
60.2	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
63.0	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
63.1	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
66.2	70.0	70.2	70.3	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
67.6	71.3	71.6	71.7	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
68.4	72.3	72.6	72.7	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
70.6	74.6	74.8	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
70.7	74.8	75.0	75.1	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
73.0	77.3	77.8	77.9	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
73.4	77.8	78.2	78.4	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
75.9	80.7	81.1	81.4	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
78.0	82.9	83.6	83.9	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
80.3	85.4	86.1	86.4	86.9	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
81.0	86.2	86.9	87.2	87.7	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
82.6	88.1	88.9	89.2	89.8	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
84.2	90.1	91.0	91.3	92.1	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
85.0	91.0	91.9	92.2	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
85.3	91.3	92.2	92.6	93.3	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
85.4	91.6	92.6	93.3	94.3	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
86.1	92.4	93.7	94.6	95.6	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
86.3	93.0	94.2	95.2	96.2	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
86.3	93.1	94.4	95.6	96.9	97.4	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
86.3	93.1	94.7	95.8	97.2	97.9	98.8	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
86.3	93.1	94.7	95.8	97.2	97.9	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.3	93.1	94.7	95.8	97.2	97.9	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.3	93.1	94.7	95.8	97.2	97.9	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.3	93.1	94.7	95.8	97.2	97.9	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

CEILING (HUNDREDS OF FEET)	VISIBILITY (STATUTE MILES)																
	10	7	5	4	3	2½	2	1½	1¼	1	¾	½	¼	0			
22000	52.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
20000	58.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
18000	58.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
16000	58.9	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
14000	59.2	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
12000	60.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
11000	64.6	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
10000	64.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
9000	66.8	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
8000	67.6	69.8	70.0	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
7000	68.1	70.3	70.7	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
6000	69.3	71.8	72.3	72.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
5000	69.6	72.2	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
4500	72.7	75.3	76.0	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
4000	74.2	77.2	77.9	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
3500	77.8	81.1	82.0	82.0	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
3000	82.1	85.6	86.8	86.8	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
2500	83.9	87.7	88.9	88.9	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
2000	84.4	88.2	89.6	89.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1800	85.6	89.7	91.1	91.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
1600	87.0	91.7	93.1	93.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1400	87.4	92.3	93.8	94.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1200	88.0	93.3	94.9	95.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
1000	88.3	93.8	95.3	95.8	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
900	88.3	93.8	95.3	95.8	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
800	88.3	93.9	95.4	95.9	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
700	88.3	93.9	95.4	96.2	97.9	98.2	98.3	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
600	88.3	94.1	95.8	96.7	98.3	98.8	99.0	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	88.3	94.2	95.9	96.8	98.4	98.9	99.1	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
400	88.3	94.2	95.9	96.8	98.4	98.9	99.1	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	88.3	94.2	95.9	96.8	98.4	98.9	99.1	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	88.3	94.2	95.9	96.8	98.4	98.9	99.1	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1700

53.7	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	
58.8	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	
58.8	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	
58.8	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	
59.6	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
61.0	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	
64.8	66.7	66.9	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
65.3	67.3	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	
67.9	69.9	70.1	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	
69.4	71.4	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
70.1	72.6	73.1	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	
71.3	74.1	74.7	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	
72.2	75.1	75.7	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
76.3	79.7	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	
78.2	81.9	82.7	83.0	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	
81.0	85.0	85.8	86.2	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	
84.6	88.8	89.7	90.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
85.9	90.2	91.1	91.6	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
86.0	90.3	91.2	91.7	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	
86.9	91.3	92.3	92.8	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	
87.6	92.6	93.6	94.1	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
88.1	93.8	94.9	95.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
88.2	94.0	95.3	96.2	97.3	97.3	97.3	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
88.3	94.4	96.1	97.0	98.2	98.2	98.2	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	
88.3	94.4	96.1	97.1	98.4	98.4	98.4	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	
88.3	94.4	96.2	97.2	98.7	98.7	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	
88.4	94.6	96.3	97.7	99.4	99.4	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
88.4	94.6	96.3	97.7	99.6	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
88.4	94.6	96.3	97.7	99.6	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
88.4	94.6	96.3	97.7	99.6	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
88.4	94.6	96.3	97.7	99.6	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
88.4	94.6	96.3	97.7	99.6	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1800-2000

60.9	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	
64.3	65.7	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	
64.8	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	
64.8	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	
65.2	66.6	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	
66.8	68.1	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	
70.3	71.7	71.7	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
70.9	72.3	72.3	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	
73.0	74.9	74.9	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	
74.1	76.0	76.0	76.3	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
75.2	77.4	77.4	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	
77.6	79.9	79.9	80.2	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	
78.6	80.9	80.9	81.2	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	
82.8	85.7	85.7	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	
84.3	87.2	87.2	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	
85.4	88.9	89.0	89.4	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
87.1	91.0	91.2	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	
88.3	92.3	92.6	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	
88.6	92.7	92.9	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	
88.8	92.9	93.1	93.6	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
89.3	94.0	94.2	94.9	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
89.8	94.7	95.2	95.9	96.6	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
90.2	95.4	96.1	96.8	97.6	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
90.2	95.7	96.7	97.3	98.1	98.3	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	
90.2	95.8	96.8	97.4	98.2	98.4	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
90.3	95.9	96.9	97.6	98.3	98.6	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
90.3	95.9	97.1	98.0	98.9	99.1	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
90.3	95.9	97.1	98.0	99.0	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
90.3	95.9	97.1	98.0	99.0	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
90.3	95.9	97.1	98.0	99.0	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
90.3	95.9	97.1	98.0	99.0	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
90.3	95.9	97.1	98.0	99.0	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAFETAC [illegible] 0-14-5 (OL-A) [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

68.7	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.3	69.3	
71.6	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	
71.8	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.7	72.7	
71.9	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.8	72.8	
72.3	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.9	72.9	
73.4	74.3	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.3	74.3	
76.2	76.9	77.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.2	77.2	
77.1	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.1	78.1	
78.4	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.6	79.6	
78.9	79.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.2	80.2	
79.7	80.4	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.0	81.0	
82.6	83.6	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.1	84.1	
83.8	84.8	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.3	85.3	
86.1	87.1	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.7	87.7	
86.6	87.6	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.1	88.1	
88.1	89.2	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.9	89.9	
89.1	90.3	90.6	90.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.1	
89.8	91.0	91.2	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.8	91.8	
90.0	91.3	91.6	91.6	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.1	92.1	
90.4	91.8	92.1	92.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.8	92.8	
90.8	92.2	92.9	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.7	93.7	
91.8	93.7	94.3	94.6	94.8	95.0	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.4	95.4	
92.0	94.1	95.0	95.3	95.6	96.0	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.4	96.4	
92.4	95.0	96.2	96.6	97.1	97.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.8	97.8	
92.7	95.4	96.8	97.2	97.8	98.0	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.8	98.8	
92.7	95.4	96.8	97.2	97.8	98.0	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.8	98.8	
92.7	95.4	97.2	97.7	98.3	98.6	98.9	98.9	99.0	99.1	99.2	99.2	99.2	99.2	99.4	99.4	
92.7	95.6	97.3	97.8	98.4	98.7	99.0	99.0	99.1	99.2	99.3	99.3	99.4	99.4	99.7	99.7	
92.7	95.6	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.7	99.8	99.8	100.0	100.0	
92.7	95.6	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.7	99.8	99.8	100.0	100.0	
92.7	95.6	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.7	99.8	99.8	100.0	100.0	
92.7	95.6	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.7	99.8	99.8	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

58.8	60.4	60.5	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	61.0	61.0	
62.8	64.6	64.7	64.8	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.0	65.1	65.1	65.2	65.2	
63.0	64.8	64.9	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.3	65.4	65.4	
63.1	64.8	64.9	65.0	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.4	65.4	
63.5	65.4	65.5	65.5	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.9	66.0	
64.9	66.7	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.2	67.3	67.3	
69.2	70.2	70.4	70.5	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.8	70.8	70.9	70.9	
68.7	70.9	71.0	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.6	71.6	
70.8	73.1	73.2	73.3	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.8	73.8	
71.8	74.2	74.4	74.5	74.8	74.8	74.8	74.8	74.8	74.9	74.9	74.9	74.9	75.0	75.1	75.1	
72.7	75.5	75.6	75.7	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.2	76.3	76.3	
74.5	77.3	77.5	77.7	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.2	78.2	78.3	78.3	
75.2	78.1	78.3	78.5	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	79.0	79.1	79.1	
78.2	81.3	81.6	81.8	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.4	82.4	
79.2	82.4	82.7	82.9	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.5	83.6	83.6	
81.4	84.9	85.4	85.6	86.0	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.3	86.3	86.4	86.4	
83.3	87.0	87.5	87.8	88.2	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.5	88.5	88.6	88.6	
84.5	88.3	88.9	89.1	89.6	89.6	89.7	89.7	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.0	
84.9	88.8	89.3	89.6	90.1	90.1	90.2	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.5	90.6	
85.7	89.7	90.4	90.7	91.2	91.3	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.6	91.7	91.7	
86.7	91.1	91.8	92.1	92.7	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.1	93.1	93.3	93.3	
87.7	92.4	93.2	93.6	94.2	94.3	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.7	94.9	94.9	
88.2	93.0	93.9	94.3	95.0	95.2	95.3	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.8	95.8	
88.5	93.6	94.7	95.2	96.0	96.2	96.3	96.4	96.4	96.5	96.5	96.5	96.6	96.6	96.8	96.8	
88.7	94.0	95.1	95.8	96.7	96.8	97.1	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.6	97.6	
88.8	94.1	95.3	96.0	97.0	97.1	97.4	97.5	97.6	97.7	97.7	97.7	97.8	97.8	98.0	98.0	
88.9	94.3	95.6	96.4	97.6	97.8	98.1	98.3	98.3	98.5	98.5	98.5	98.6	98.6	98.8	98.8	
88.9	94.4	95.8	96.6	97.8	98.1	98.5	98.8	98.8	98.9	99.0	99.0	99.1	99.2	99.4	99.4	
88.9	94.4	95.8	96.6	97.9	98.1	98.7	99.1	99.1	99.3	99.3	99.4	99.5	99.5	99.8	99.8	
88.9	94.4	95.8	96.6	97.9	98.2	98.8	99.1	99.2	99.3	99.4	99.4	99.6	99.6	99.9	100.0	
88.9	94.4	95.8	96.6	97.9	98.2	98.8	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.9	100.0	
88.9	94.4	95.8	96.6	97.9	98.2	98.8	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 7270

USAF ETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT 0000-2200

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

	53.3	53.7	53.7	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	54.0	54.0	
	56.1	56.6	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9
	56.1	56.6	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	
	56.1	56.9	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	
	57.4	58.3	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.6	58.6	
	59.4	60.4	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.8	60.8	
	64.1	65.3	65.3	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6	
	64.5	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	
	67.1	68.5	68.5	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.9	68.9		
	69.8	70.2	70.2	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9	71.0	71.1	
	70.0	71.8	71.8	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.6	72.6
	73.3	75.5	75.5	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.2	76.2	
	75.1	77.3	77.3	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	78.0	78.1	78.1	
	78.5	81.1	81.1	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.8	81.8	
	79.4	81.9	81.9	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.7	82.7	
	81.1	83.9	83.9	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.6	84.6	
	83.2	86.7	86.7	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.6	87.6	
	85.1	88.9	89.2	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9	90.0	90.0	
	85.2	89.0	89.4	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.1	90.1	
	86.2	90.2	90.9	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.6	91.6	
	86.6	92.2	92.8	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.7	93.7	
	86.6	92.7	93.3	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.5	94.5	
	86.6	93.1	93.9	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	95.1	95.1	
	86.6	93.1	93.9	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	95.1	95.1	
	86.9	93.5	94.5	95.1	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.5	96.5	
	86.9	94.0	94.9	95.7	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.3	97.3	
	86.3	94.1	95.2	95.9	97.4	97.4	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.5	98.6	98.6	
	86.9	94.0	95.2	95.9	97.4	97.4	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.6	98.7	98.7	
	87.0	94.1	95.3	96.3	97.8	97.8	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.2	99.2	
	87.0	94.1	95.4	96.5	98.0	98.0	98.9	99.1	99.1	99.5	99.5	99.5	99.5	99.6	99.7	99.7	
	87.0	94.1	95.4	96.5	98.0	98.0	98.9	99.1	99.1	99.5	99.5	99.5	99.6	99.7	99.9	99.9	
	87.0	94.1	95.4	96.5	98.0	98.0	98.9	99.1	99.1	99.5	99.5	99.5	99.6	99.7	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 935

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0300-0500

54.1	55.1	55.1	55.2	55.3	55.3	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	56.0	56.0	
56.9	58.3	58.3	58.4	58.6	58.6	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.2	59.2	
57.1	58.4	58.4	58.6	58.7	58.7	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.3	59.3	
57.1	58.4	58.4	58.6	58.7	58.7	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.3	59.3	
57.8	59.2	59.2	59.3	59.4	59.4	59.8	59.8	59.8	59.8	60.0	60.0	60.0	60.0	60.1	60.1	
59.5	61.1	61.1	61.2	61.4	61.4	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	62.0	62.0	
63.3	65.2	65.2	65.3	65.4	65.4	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0	66.1	66.1	
63.7	65.7	65.7	65.8	65.9	65.9	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.5	66.5	
65.1	67.2	67.2	67.3	67.4	67.4	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	68.0	68.0	
66.8	68.9	68.9	69.0	69.1	69.1	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.8	69.8	
67.8	70.0	70.0	70.4	70.5	70.5	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.2	71.2	
70.0	72.8	72.8	73.2	73.3	73.3	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	74.0	74.0	
72.2	75.1	75.1	75.6	75.7	75.7	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.3	76.3	
76.1	79.7	79.9	80.3	80.5	80.5	80.9	80.9	80.9	80.9	81.1	81.1	81.1	81.1	81.2	81.2	
77.0	80.8	81.1	81.5	81.7	81.7	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.3	82.3	
78.9	82.9	83.2	83.7	84.0	84.0	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.6	84.6	
81.2	85.6	85.9	86.5	86.8	86.8	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.4	87.4	
82.3	87.3	87.7	88.4	88.6	88.6	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	
82.7	87.7	88.2	88.8	89.0	89.0	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.7	89.7	
83.1	88.3	88.7	89.6	89.8	89.8	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.4	90.4	
84.4	89.9	90.4	91.3	91.5	91.5	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.1	92.1	
85.1	90.7	91.5	92.5	92.8	92.8	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.4	93.4	
85.4	91.5	92.2	93.4	93.8	93.8	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.4	94.4	
85.4	91.8	92.6	93.8	94.1	94.1	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.7	94.7	
85.9	92.8	93.8	95.2	95.7	95.7	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.4	96.4	
85.9	93.0	94.1	95.5	96.3	96.3	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.2	97.2	
85.9	93.4	94.5	96.1	97.1	97.1	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	98.0	98.0	
85.9	93.4	94.5	96.1	97.3	97.3	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	
85.9	93.4	94.5	96.4	97.6	97.6	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	
85.9	93.5	94.6	96.7	98.0	98.0	98.8	98.9	99.0	99.0	99.1	99.1	99.1	99.2	99.4	99.4	
85.9	93.5	94.6	96.7	98.0	98.0	98.8	98.9	99.0	99.0	99.1	99.1	99.5	99.6	99.8	99.8	
85.9	93.5	94.6	96.7	98.0	98.0	98.8	98.9	99.0	99.1	99.2	99.2	99.6	99.7	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC [illegible] PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-0800

48.0	49.5	50.1	50.3	50.5	50.5	50.6	51.0	51.0	51.3	51.4	51.4	51.7	51.7	51.8	51.8	
52.3	53.9	54.6	54.8	55.1	55.1	55.2	55.5	55.5	55.8	55.9	55.9	56.2	56.2	56.3	56.3	
52.3	53.9	54.6	54.8	55.1	55.1	55.2	55.5	55.5	55.8	55.9	55.9	56.2	56.2	56.3	56.3	
52.4	54.0	54.7	54.9	55.2	55.2	55.3	55.6	55.6	55.9	56.0	56.0	56.3	56.3	56.5	56.5	
52.8	54.4	55.2	55.4	55.6	55.6	55.7	56.0	56.0	56.3	56.5	56.5	56.8	56.8	56.9	56.9	
55.1	56.9	57.6	58.0	58.2	58.2	58.3	58.6	58.6	58.9	59.0	59.0	59.4	59.4	59.5	59.5	
60.1	62.2	63.0	63.3	63.5	63.5	63.7	64.0	64.0	64.4	64.5	64.5	64.8	64.8	64.9	64.9	
60.2	62.3	63.1	63.4	63.7	63.7	63.8	64.1	64.1	64.5	64.6	64.6	64.9	64.9	65.1	65.1	
62.7	64.7	65.6	65.9	66.1	66.1	66.2	66.6	66.6	67.0	67.1	67.1	67.4	67.4	67.5	67.5	
64.2	66.3	67.2	67.5	67.7	67.7	67.8	68.2	68.2	68.6	68.7	68.7	69.0	69.0	69.1	69.1	
65.3	67.4	68.3	68.6	68.8	68.8	68.9	69.2	69.2	69.7	69.8	69.8	70.2	70.2	70.3	70.3	
66.9	69.2	70.1	70.4	70.6	70.6	70.8	71.1	71.1	71.5	71.6	71.6	72.0	72.0	72.2	72.2	
68.4	70.8	71.6	71.9	72.2	72.2	72.3	72.6	72.6	73.0	73.1	73.1	73.5	73.5	73.7	73.7	
71.5	74.2	75.1	75.5	75.7	75.7	75.8	76.1	76.1	76.6	76.7	76.7	77.1	77.1	77.2	77.2	
72.3	75.4	76.2	76.7	76.9	76.9	77.0	77.3	77.3	77.7	77.8	77.8	78.3	78.3	78.4	78.4	
75.6	79.0	79.9	80.4	80.6	80.6	80.8	81.1	81.1	81.5	81.6	81.6	82.0	82.0	82.2	82.2	
77.3	81.1	82.0	82.6	82.9	82.9	83.1	83.4	83.4	83.9	84.0	84.0	84.4	84.4	84.5	84.5	
78.9	83.4	84.4	84.9	85.5	85.5	85.7	86.0	86.0	86.5	86.6	86.6	87.0	87.0	87.1	87.1	
79.4	83.9	84.8	85.4	86.1	86.1	86.3	86.7	86.7	87.1	87.2	87.2	87.6	87.6	87.7	87.7	
79.8	84.6	85.6	86.2	87.0	87.1	87.5	87.8	87.8	88.3	88.4	88.4	88.8	88.8	88.9	88.9	
81.8	87.2	88.2	88.9	89.7	89.8	90.2	90.5	90.5	91.0	91.1	91.1	91.5	91.5	91.6	91.6	
82.5	88.2	89.1	90.0	90.8	91.0	91.4	91.7	91.7	92.2	92.3	92.3	92.7	92.7	92.8	92.8	
82.9	89.0	90.0	91.0	91.9	92.2	92.6	93.0	93.1	93.4	93.5	93.5	94.0	94.0	94.1	94.1	
83.2	89.9	90.9	91.8	92.9	93.1	93.5	94.0	94.0	94.4	94.5	94.5	94.9	94.9	95.1	95.1	
83.2	90.0	91.0	92.0	93.1	93.3	93.9	94.3	94.3	94.7	94.8	94.8	95.3	95.3	95.4	95.4	
83.2	90.5	91.6	92.9	94.0	94.3	95.1	95.5	95.5	95.9	96.0	96.0	96.6	96.6	96.7	96.7	
83.2	90.8	91.9	93.5	94.8	95.2	96.1	96.7	96.7	97.2	97.3	97.3	97.8	97.8	98.0	98.0	
83.2	91.1	92.3	93.9	95.4	95.8	97.2	97.8	98.0	98.5	98.7	98.7	99.2	99.2	99.4	99.4	
83.2	91.1	92.3	93.9	95.4	95.8	97.2	97.8	98.1	98.7	98.9	98.9	99.5	99.5	99.6	99.6	
83.2	91.1	92.3	93.9	95.4	95.8	97.2	97.8	98.1	98.7	98.9	98.9	99.5	99.5	99.6	99.6	
83.2	91.1	92.3	93.9	95.4	95.8	97.2	97.8	98.1	98.7	98.9	98.9	99.6	99.8	99.9	99.9	
83.2	91.1	92.3	93.9	95.4	95.8	97.2	97.8	98.1	98.7	99.0	99.0	99.7	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0930-1130

44.5	45.6	46.1	46.5	46.6	46.6	46.7	47.0	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3		
51.3	52.8	53.2	53.7	53.8	53.8	53.9	54.2	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5		
51.3	53.0	53.4	53.9	54.0	54.0	54.1	54.4	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7		
51.6	53.3	53.8	54.2	54.3	54.3	54.4	54.7	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1		
52.9	54.8	55.3	55.7	55.8	55.8	55.9	56.2	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6		
54.8	57.1	57.5	58.0	58.1	58.1	58.2	58.5	58.6	58.8	58.8	58.8	58.8	58.8	58.8	58.8		
58.3	61.1	61.5	61.9	62.0	62.0	62.2	62.5	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8		
58.4	61.2	61.6	62.0	62.2	62.2	62.3	62.6	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9		
62.2	65.1	65.5	65.9	66.0	66.0	66.1	66.5	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8		
63.4	66.5	66.9	67.3	67.4	67.4	67.5	67.8	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2		
65.2	68.3	68.7	69.1	69.2	69.2	69.4	69.7	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0		
66.6	70.0	70.4	70.9	71.0	71.0	71.1	71.4	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7		
67.5	71.0	71.5	71.9	72.0	72.0	72.2	72.5	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8		
71.1	75.1	75.6	76.0	76.1	76.1	76.2	76.6	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9		
71.8	75.9	76.5	76.9	77.0	77.2	77.4	77.7	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1		
74.9	79.0	79.7	80.1	80.2	80.4	80.6	81.0	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3		
76.3	80.9	81.6	82.0	82.2	82.4	82.6	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2		
78.5	83.0	83.8	84.2	84.3	84.5	84.7	85.1	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4		
79.0	83.5	84.3	84.7	85.1	85.3	85.5	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1		
79.6	84.6	85.7	86.1	86.6	86.8	87.1	87.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7		
81.2	87.2	88.4	88.9	89.5	89.7	90.0	90.4	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9		
82.3	88.9	90.1	90.8	91.7	91.9	92.3	92.8	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3		
82.4	89.6	90.9	91.6	92.7	92.9	93.3	93.9	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4		
82.8	90.2	91.6	92.5	93.5	93.8	94.2	94.8	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5		
82.8	90.6	92.4	93.2	94.4	94.6	95.1	95.8	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5		
82.9	91.0	92.8	93.9	95.2	95.4	95.8	96.7	97.0	97.3	97.3	97.3	97.4	97.4	97.4	97.4		
82.9	91.0	92.9	94.2	95.5	95.8	96.6	97.4	97.8	98.3	98.3	98.3	98.4	98.4	98.4	98.4		
82.9	91.0	92.9	94.2	95.7	96.0	96.9	97.8	98.4	99.1	99.1	99.1	99.4	99.4	99.4	99.4		
82.9	91.0	92.9	94.2	95.7	96.0	97.2	98.2	98.7	99.5	99.5	99.5	99.7	99.7	99.7	99.7		
82.9	91.0	92.9	94.2	95.7	96.0	97.2	98.2	98.7	99.5	99.5	99.5	99.8	99.8	99.8	99.8		
82.9	91.0	92.9	94.2	95.7	96.0	97.2	98.2	98.7	99.6	99.6	99.6	99.9	99.9	99.9	100.0		
82.9	91.0	92.9	94.2	95.7	96.0	97.2	98.2	98.7	99.6	99.6	99.6	99.9	99.9	99.9	100.0		

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC [illegible] OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1200-1400

45.4	46.6	46.6	46.7	46.8	46.8	46.8	46.8	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	
54.1	55.7	55.7	55.8	55.9	55.9	55.9	55.9	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	
54.7	56.3	56.3	56.5	56.6	56.6	56.6	56.6	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	
54.8	56.5	56.5	56.6	56.7	56.7	56.7	56.7	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	
56.0	57.8	57.8	58.0	58.1	58.1	58.1	58.1	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	
58.4	60.8	60.8	60.9	61.0	61.0	61.0	61.0	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
61.8	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	
61.8	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	
63.8	66.6	66.6	66.7	66.8	66.8	66.8	66.8	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
64.9	68.3	68.3	68.4	68.5	68.5	68.5	68.5	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	
66.5	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	
67.8	71.3	71.3	71.4	71.5	71.5	71.5	71.5	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	
68.3	71.9	71.9	72.0	72.2	72.2	72.2	72.2	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	
71.5	75.4	75.5	75.6	75.7	75.7	75.7	75.7	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	
72.6	76.5	76.6	76.7	76.8	77.1	77.1	77.1	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	
75.6	80.0	80.1	80.2	80.3	80.6	80.6	80.6	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
78.3	82.8	82.9	83.0	83.2	83.5	83.5	83.5	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	
80.2	84.9	85.2	85.3	85.5	85.8	85.8	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	
80.5	85.4	85.6	85.7	85.9	86.2	86.2	86.2	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	
82.5	88.1	88.6	88.8	89.0	89.4	89.4	89.4	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
84.4	90.4	91.2	91.5	91.8	92.2	92.3	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	
84.6	91.8	92.7	93.1	93.4	93.8	94.3	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
85.3	92.7	93.9	94.3	94.9	95.4	95.9	96.0	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
85.5	93.1	94.3	94.7	95.5	96.0	96.8	97.0	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	
85.5	93.2	94.4	94.8	95.8	96.3	97.3	97.5	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
85.5	93.3	94.5	94.9	96.0	96.6	97.6	98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	
85.5	93.3	94.5	94.9	96.5	97.0	98.2	98.7	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	
85.5	93.3	94.5	94.9	96.5	97.0	98.2	98.7	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	
85.5	93.3	94.5	94.9	96.5	97.0	98.3	98.8	99.1	99.7	99.7	99.7	100.0	100.0	100.0	100.0	
85.5	93.3	94.5	94.9	96.5	97.0	98.3	98.8	99.1	99.7	99.7	99.7	100.0	100.0	100.0	100.0	
85.5	93.3	94.5	94.9	96.5	97.0	98.3	98.8	99.1	99.7	99.7	99.7	100.0	100.0	100.0	100.0	
85.5	93.3	94.5	94.9	96.5	97.0	98.3	98.8	99.1	99.7	99.7	99.7	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1700

44.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	
50.1	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	
51.5	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	
51.8	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	
53.7	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
56.5	58.8	58.9	58.9	58.9	58.9	58.9	58.9	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	
61.3	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
61.8	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	
65.1	67.6	67.8	67.8	67.8	67.8	67.8	67.8	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	
65.7	68.6	68.8	68.8	68.8	68.8	68.8	68.8	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
66.6	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
69.1	72.3	72.5	72.5	72.6	72.6	72.6	72.6	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	
69.4	72.7	72.9	72.9	73.0	73.0	73.0	73.0	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
74.1	77.5	78.0	78.2	78.3	78.3	78.3	78.3	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	
75.7	79.1	79.6	79.8	80.0	80.0	80.0	80.0	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	
77.7	81.4	81.8	82.0	82.4	82.4	82.4	82.4	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	
80.9	85.2	85.6	85.8	86.1	86.1	86.1	86.1	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
82.7	87.5	88.1	88.3	88.6	88.9	88.9	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	
83.2	88.2	88.7	89.0	89.4	89.7	89.7	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
84.6	90.6	91.3	91.8	92.3	92.6	92.7	92.7	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	
85.7	92.4	93.3	93.9	94.5	94.8	94.9	94.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
85.8	92.6	93.5	94.4	95.1	95.5	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
85.8	92.7	93.8	94.6	95.3	95.7	96.0	96.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
85.8	93.1	94.2	95.2	95.9	96.3	96.8	96.8	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
85.8	93.1	94.2	95.3	96.2	96.7	97.3	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
85.8	93.1	94.2	95.3	96.7	97.2	98.1	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	
85.8	93.1	94.3	95.4	96.8	97.3	98.3	98.7	98.9	99.5	99.5	99.5	99.6	99.6	99.6	99.6	
85.8	93.1	94.3	95.4	96.8	97.4	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
85.8	93.1	94.3	95.4	96.8	97.4	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
85.8	93.1	94.3	95.4	96.8	97.4	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
85.8	93.1	94.3	95.4	96.8	97.4	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
85.8	93.1	94.3	95.4	96.8	97.4	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 CCI

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1800-2000

	48.7	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
	53.3	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
	53.4	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
	53.7	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
	55.5	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
	58.3	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
	63.4	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
	64.5	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
	67.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
	69.2	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
	70.2	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
	72.8	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
	73.4	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
	78.5	79.7	79.8	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
	79.6	80.9	81.0	81.2	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
	80.8	82.0	82.2	82.6	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
	84.0	86.8	86.9	87.3	87.3	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
	85.4	89.1	89.4	89.9	89.9	90.1	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
	85.8	89.7	89.9	90.4	90.4	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	86.3	90.4	90.6	91.4	91.5	91.7	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
	86.8	91.4	91.9	93.0	93.4	93.7	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	86.9	91.8	92.4	94.0	94.6	94.8	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
	86.9	91.8	92.6	94.2	94.8	95.1	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	86.9	91.8	92.7	94.6	95.3	95.5	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
	86.9	91.9	92.9	95.1	95.7	95.9	96.7	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
	86.9	92.4	93.4	95.6	96.3	96.7	97.4	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
	87.1	92.8	94.1	96.2	97.2	97.5	98.4	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	87.1	92.9	94.2	96.3	97.4	97.7	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	87.1	92.9	94.2	96.3	97.4	97.7	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	87.1	92.9	94.2	96.3	97.4	97.7	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	87.1	92.9	94.2	96.3	97.4	97.7	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	87.1	92.9	94.2	96.3	97.4	97.7	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

VISIBILITY (STATUTE MILES)

CEILING (FEET)	2	2½	3	4	5	7	10	15	20	30	40	50	60	70	80	90	100
	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
	54.6	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
	56.1	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
	56.6	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
	63.5	64.2	64.2	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
	64.6	65.7	65.7	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
	66.8	67.8	67.8	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
	68.3	69.4	69.4	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
	69.6	70.6	70.6	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
	72.6	73.7	73.7	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
	73.5	74.6	74.6	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
	79.2	80.4	80.5	80.9	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
	80.1	81.4	81.5	81.8	82.0	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
	81.4	82.9	83.0	83.4	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
	84.1	87.1	87.2	87.8	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
	85.2	88.8	88.9	89.6	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
	85.8	89.6	89.7	90.3	90.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
	86.5	90.5	90.6	91.3	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
	86.7	91.7	91.8	92.5	93.1	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
	86.9	92.2	92.3	93.4	94.4	94.5	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
	87.0	92.6	92.9	94.1	95.1	95.2	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	87.0	92.6	92.9	94.1	95.2	95.3	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	87.2	92.9	93.4	94.7	95.9	96.0	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	87.3	93.1	93.7	95.3	96.7	96.9	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
	87.3	93.1	93.8	95.4	96.8	97.0	97.4	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
	87.4	93.3	94.0	95.6	97.0	97.2	97.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	87.4	93.3	94.0	95.6	97.0	97.2	97.8	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	87.4	93.3	94.1	95.7	97.1	97.3	98.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	87.4	93.3	94.1	95.7	97.1	97.3	98.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	87.4	93.3	94.1	95.7	97.1	97.3	98.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS ALL

48.3	49.2	49.4	49.5	49.6	49.6	49.6	49.7	49.8	49.9	49.9	49.9	50.0	50.0	50.0	50.0	
53.5	54.7	54.8	55.0	55.0	55.0	55.1	55.2	55.3	55.4	55.4	55.4	55.4	55.4	55.5	55.5	
53.9	55.0	55.2	55.3	55.4	55.4	55.5	55.6	55.6	55.7	55.7	55.7	55.8	55.8	55.8	55.8	
54.1	55.2	55.4	55.5	55.6	55.6	55.7	55.8	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0	
55.3	56.6	56.8	56.9	57.0	57.0	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.4	57.5	57.5	
57.6	59.2	59.3	59.5	59.6	59.6	59.7	59.7	59.8	59.9	59.9	59.9	60.0	60.0	60.0	60.0	
62.0	63.8	64.0	64.2	64.3	64.3	64.4	64.4	64.5	64.6	64.6	64.6	64.7	64.7	64.7	64.7	
62.5	64.4	64.6	64.8	64.9	64.9	65.0	65.0	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	
65.0	67.0	67.2	67.3	67.5	67.5	67.5	67.6	67.7	67.8	67.8	67.8	67.9	67.9	67.9	67.9	
66.4	68.6	68.8	69.0	69.1	69.1	69.1	69.2	69.3	69.4	69.4	69.4	69.5	69.5	69.5	69.5	
67.6	69.9	70.1	70.3	70.4	70.4	70.5	70.6	70.6	70.7	70.8	70.8	70.8	70.8	70.9	70.9	
69.9	72.3	72.5	72.8	72.9	72.9	73.0	73.0	73.1	73.2	73.2	73.2	73.3	73.3	73.4	73.4	
71.0	73.5	73.7	73.9	74.1	74.1	74.1	74.2	74.3	74.4	74.4	74.4	74.5	74.5	74.5	74.5	
75.1	77.9	78.2	78.5	78.6	78.7	78.7	78.8	78.9	79.0	79.0	79.0	79.1	79.1	79.2	79.2	
76.0	79.0	79.3	79.6	79.8	79.8	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.4	80.4	
78.2	81.4	81.7	82.1	82.3	82.4	82.5	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.9	82.9	
80.7	84.5	84.9	85.3	85.5	85.6	85.7	85.8	85.9	86.0	86.0	86.0	86.1	86.1	86.1	86.1	
82.3	86.4	87.1	87.5	87.8	87.9	88.0	88.1	88.2	88.3	88.3	88.3	88.4	88.4	88.5	88.5	
82.7	87.1	87.6	88.0	88.3	88.5	88.6	88.7	88.7	88.9	88.9	88.9	89.0	89.0	89.0	89.0	
83.6	88.4	89.0	89.6	89.9	90.1	90.3	90.4	90.4	90.5	90.6	90.6	90.6	90.6	90.7	90.7	
84.7	90.3	91.0	91.7	92.1	92.3	92.5	92.6	92.7	92.8	92.9	92.9	92.9	92.9	93.0	93.0	
85.1	91.1	91.9	92.8	93.4	93.6	93.9	94.1	94.1	94.3	94.3	94.3	94.4	94.4	94.4	94.4	
85.3	91.6	92.5	93.5	94.2	94.4	94.7	94.9	95.0	95.1	95.2	95.2	95.2	95.2	95.3	95.3	
85.4	92.0	92.9	93.9	94.6	94.9	95.3	95.5	95.6	95.7	95.8	95.8	95.8	95.8	95.9	95.9	
85.5	92.3	93.3	94.4	95.4	95.6	96.1	96.4	96.5	96.7	96.7	96.7	96.7	96.8	96.8	96.8	
85.5	92.6	93.7	94.9	96.0	96.3	96.9	97.3	97.4	97.5	97.6	97.6	97.6	97.6	97.7	97.7	
85.6	92.7	93.9	95.2	96.5	96.8	97.6	98.1	98.2	98.5	98.5	98.5	98.6	98.6	98.7	98.7	
85.6	92.8	94.1	95.3	96.7	97.0	98.0	98.5	98.7	99.0	99.1	99.1	99.2	99.2	99.3	99.3	
85.6	92.8	94.0	95.4	96.8	97.1	98.2	98.7	98.9	99.3	99.3	99.3	99.5	99.5	99.5	99.5	
85.6	92.8	94.1	95.4	96.8	97.2	98.3	98.9	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	
85.6	92.8	94.1	95.4	96.8	97.2	98.3	98.9	99.1	99.5	99.5	99.5	99.8	99.8	99.9	99.9	
85.6	92.8	94.0	95.4	96.8	97.2	98.3	98.9	99.1	99.5	99.6	99.6	99.8	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 7439

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0230

47.3	48.8	49.0	49.3	49.8	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
49.6	51.3	51.6	51.9	52.3	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
49.6	51.3	51.6	51.9	52.3	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
49.6	51.3	51.6	51.9	52.3	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
49.7	51.4	51.7	52.0	52.4	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
51.3	53.1	53.3	53.7	54.1	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	
55.3	57.2	57.4	57.8	58.2	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	
55.7	57.6	57.8	58.1	58.6	58.6	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	
57.4	59.4	59.8	60.1	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	
58.1	60.3	60.7	61.0	61.9	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	
58.9	61.2	61.6	61.9	62.8	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	
61.8	64.4	64.8	65.1	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	
62.4	65.1	65.4	65.8	66.7	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	
64.9	68.1	68.4	69.0	70.1	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	
65.8	69.0	69.3	69.9	71.0	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	
68.7	71.9	72.2	72.8	74.0	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	
71.1	74.3	74.9	75.4	76.7	76.9	77.2	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	
74.8	78.2	78.9	79.8	81.0	81.2	81.8	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
75.1	78.7	79.3	80.3	81.7	81.9	82.4	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.9	82.8	
77.1	81.2	82.1	83.1	84.7	85.0	85.7	86.0	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	
77.9	82.3	83.2	84.3	85.9	86.3	87.0	87.3	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	
78.8	83.6	84.6	85.8	87.3	87.8	88.6	89.1	89.3	89.7	89.7	89.7	90.0	90.0	90.0	90.0	
79.1	84.0	85.1	86.3	88.1	88.8	89.7	90.2	90.6	91.1	91.1	91.1	91.4	91.4	91.4	91.4	
79.2	84.1	85.3	86.6	88.3	89.2	90.4	91.1	91.7	92.2	92.2	92.2	92.6	92.6	92.6	92.6	
79.2	84.4	85.7	86.9	88.9	89.9	91.1	91.8	92.3	92.9	92.9	92.9	93.2	93.2	93.2	93.2	
79.2	84.9	86.2	87.6	89.7	90.7	92.3	93.0	93.6	94.3	94.3	94.3	94.7	94.7	94.7	94.7	
79.6	85.3	86.7	88.1	90.3	91.3	93.2	94.2	94.8	95.7	95.7	95.7	96.0	96.0	96.0	96.0	
79.6	85.4	87.6	89.2	92.1	93.1	95.3	96.4	97.0	98.1	98.1	98.1	98.7	98.7	98.7	98.7	
79.6	85.4	87.6	89.2	92.3	93.3	95.6	96.7	97.2	98.7	98.7	98.7	99.2	99.2	99.2	99.2	
79.7	85.6	87.7	89.3	92.4	93.4	95.8	96.9	97.4	98.9	99.0	99.0	99.6	99.6	99.6	99.6	
79.7	85.6	87.7	89.3	92.4	93.4	95.8	96.9	97.4	98.9	99.0	99.0	99.6	99.6	99.8	100.0	
79.7	85.6	87.7	89.3	92.4	93.4	95.8	96.9	97.4	98.9	99.0	99.0	99.6	99.6	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV 0300-2500

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

47.2	47.9	48.2	48.3	48.6	48.6	49.0	49.1	49.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
50.1	51.0	51.3	51.4	51.7	51.7	52.1	52.2	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
50.1	51.0	51.3	51.4	51.7	51.7	52.1	52.2	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
50.1	51.0	51.3	51.4	51.7	51.7	52.1	52.2	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
50.1	51.0	51.3	51.4	51.7	51.7	52.1	52.2	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
52.0	52.9	53.2	53.3	53.6	53.6	54.0	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	
54.6	55.6	55.9	56.0	56.2	56.2	56.7	56.8	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	
54.6	55.6	55.9	56.0	56.2	56.2	56.7	56.8	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	
55.9	57.2	57.8	57.9	58.2	58.2	58.8	58.9	58.9	59.2	59.2	59.2	59.2	59.2	59.2	59.2	
56.3	58.0	58.6	58.7	59.0	59.0	59.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
57.1	59.0	59.6	59.7	60.0	60.0	60.6	60.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
59.2	61.3	62.1	62.2	62.6	62.6	63.1	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	
59.9	62.0	62.8	62.9	63.2	63.2	63.8	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
62.1	64.8	65.6	65.7	66.1	66.1	66.7	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
63.9	66.6	67.3	67.4	67.9	67.9	68.4	68.6	68.6	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
66.4	69.2	70.1	70.2	71.0	71.0	71.6	71.7	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
68.7	72.1	73.2	73.3	74.2	74.2	75.1	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	
72.2	76.3	77.7	77.8	78.8	78.8	79.8	80.0	80.0	80.7	80.8	80.8	80.8	80.8	80.8	80.8	
73.0	77.2	79.6	78.7	79.7	79.7	80.7	80.9	80.9	81.6	81.7	81.7	81.7	81.7	81.7	81.7	
74.9	79.8	81.3	81.4	83.0	83.0	84.1	84.3	84.3	85.2	85.3	85.3	85.3	85.3	85.3	85.3	
75.7	81.1	82.7	82.9	84.4	84.6	85.7	85.9	85.9	86.8	86.9	86.9	86.9	86.9	86.9	86.9	
76.6	82.4	84.1	84.8	86.3	86.4	87.6	87.9	87.9	88.8	88.9	88.9	88.9	88.9	88.9	88.9	
77.1	83.3	85.4	86.1	87.7	87.9	89.1	89.6	89.6	90.7	90.8	90.8	90.8	90.8	90.8	90.8	
77.1	83.3	85.6	86.6	88.2	88.4	89.9	90.7	90.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	
77.6	83.8	86.1	87.1	88.8	89.0	90.7	91.9	91.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	
77.7	83.9	86.2	87.2	89.1	89.4	91.2	92.4	92.4	93.9	94.1	94.1	94.1	94.1	94.1	94.1	
78.0	84.3	86.8	87.8	89.8	90.2	92.3	93.8	94.1	95.7	95.9	95.9	95.9	95.9	95.9	95.9	
78.0	84.4	87.1	88.7	91.1	91.6	93.9	95.7	96.1	97.7	98.0	98.0	98.0	98.0	98.0	98.0	
78.0	84.4	87.1	88.7	91.1	91.6	93.9	95.8	96.2	98.4	98.9	98.9	98.9	98.9	98.9	98.9	
78.0	84.4	87.1	88.7	91.1	91.6	93.9	95.8	96.2	98.4	98.9	99.0	99.0	99.1	99.1	99.1	
78.0	84.4	87.1	88.7	91.1	91.6	93.9	95.8	96.2	98.7	99.1	99.2	99.4	99.6	99.6	99.6	
78.0	84.4	87.1	88.7	91.1	91.6	93.9	95.8	96.2	98.8	99.2	99.3	99.6	99.7	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-0800

42.1	44.1	44.8	45.1	45.8	45.8	46.0	46.2	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	
48.4	48.7	49.3	49.7	50.3	50.3	50.6	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	
46.6	46.8	49.4	49.8	50.4	50.4	50.7	50.9	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	
46.6	46.8	49.4	49.8	50.4	50.4	50.7	50.9	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	
46.7	48.9	49.6	49.9	50.6	50.6	50.8	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	
47.9	50.1	50.8	51.1	51.8	51.8	52.0	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	
50.9	53.6	54.2	54.6	55.2	55.2	55.4	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	
51.0	53.7	54.4	54.8	55.4	55.4	55.7	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
53.3	56.2	57.1	57.4	58.1	58.1	58.3	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
54.3	57.4	58.3	58.8	59.7	59.7	59.9	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	
54.7	57.8	58.7	59.1	60.0	60.0	60.2	60.4	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	
57.2	60.7	61.6	62.0	63.1	63.1	63.4	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	
57.9	61.3	62.2	62.7	63.8	63.8	64.1	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
59.7	63.3	64.2	64.7	65.8	65.8	66.1	66.3	66.3	66.4	66.4	66.4	66.6	66.6	66.6	66.6	
60.4	64.1	65.0	65.4	66.6	66.6	66.9	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.3	67.3	
62.2	66.6	67.7	68.1	69.2	69.2	69.6	69.8	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0	
63.8	68.7	69.9	70.4	71.6	71.6	72.3	72.6	72.6	72.7	72.7	72.7	72.8	72.8	72.8	72.8	
68.1	74.1	75.4	76.2	77.4	77.4	78.2	78.4	78.4	78.6	78.6	78.6	78.7	78.7	78.7	78.7	
69.1	75.3	76.7	77.4	78.7	78.7	79.4	79.7	79.7	79.8	79.8	79.8	79.9	79.9	79.9	79.9	
71.8	78.7	80.0	81.1	82.6	82.6	83.3	83.6	83.6	84.0	84.0	84.0	84.1	84.1	84.1	84.1	
72.9	80.2	81.6	82.8	84.4	84.4	85.3	85.6	85.6	86.0	86.0	86.0	86.1	86.1	86.1	86.1	
73.0	80.9	82.3	83.6	85.2	85.2	86.1	86.3	86.3	86.8	86.9	86.9	87.0	87.0	87.0	87.0	
73.7	82.2	83.7	85.1	87.2	87.4	88.3	88.6	88.6	89.3	89.4	89.4	89.6	89.6	89.6	89.6	
73.7	82.2	83.9	85.6	87.7	87.9	88.9	89.2	89.2	90.3	90.7	90.7	90.8	90.8	90.8	90.8	
74.1	82.9	84.6	86.3	88.4	88.8	90.0	90.9	91.0	92.1	92.4	92.4	92.7	92.7	92.7	92.7	
74.4	83.3	85.1	87.0	89.1	89.4	90.7	91.6	91.7	92.9	93.2	93.2	93.4	93.4	93.4	93.4	
74.7	83.7	85.3	87.4	89.7	90.1	91.3	92.4	92.8	94.3	94.8	95.0	95.2	95.2	95.2	95.2	
74.7	84.0	86.1	88.6	91.2	91.7	93.3	94.7	95.0	96.7	97.4	97.7	97.9	97.9	97.9	97.9	
74.7	84.0	86.1	88.6	91.2	91.7	93.4	95.0	95.3	97.1	98.0	98.3	98.6	98.6	98.6	98.8	
74.7	84.0	86.1	88.6	91.2	91.7	93.4	95.3	95.7	97.6	98.4	98.8	99.0	99.1	99.2	99.4	
74.7	84.0	86.1	88.6	91.2	91.7	93.4	95.3	95.7	97.8	98.7	99.0	99.2	99.4	99.7	100.0	
74.7	84.0	86.1	88.6	91.2	91.7	93.4	95.3	95.7	97.8	98.7	99.0	99.2	99.4	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC [illegible]-5 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0900-1100

38.9	42.0	42.6	42.8	43.4	43.4	43.6	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	
44.0	47.3	47.9	48.3	48.9	48.9	49.2	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
44.5	47.7	48.4	48.7	49.4	49.4	49.6	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	
44.7	47.9	48.6	48.9	49.6	49.6	49.8	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	
45.4	48.7	49.4	49.7	50.4	50.4	50.6	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	
47.6	50.9	51.6	51.9	52.6	52.6	52.8	52.9	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	
50.7	54.5	55.2	55.5	56.3	56.3	56.5	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	
51.1	54.9	55.6	56.0	56.7	56.7	57.0	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
53.8	57.8	58.7	59.3	60.4	60.4	60.6	60.8	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
54.4	58.6	59.5	60.1	61.2	61.2	61.4	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
54.6	58.8	59.7	60.3	61.4	61.4	61.7	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	
56.5	61.1	62.0	62.5	63.6	63.6	64.0	64.2	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
57.5	62.2	63.1	63.6	64.7	64.7	65.1	65.3	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	
59.1	64.0	64.8	65.4	66.5	66.5	66.9	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	
59.7	64.8	65.7	66.3	67.4	67.4	67.7	68.0	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	
61.5	66.9	67.7	68.3	69.6	69.7	70.1	70.3	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
63.1	68.6	69.5	70.6	72.1	72.2	72.7	73.0	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
66.2	72.3	73.4	74.6	76.1	76.4	77.1	77.4	77.4	77.8	78.0	78.1	78.1	78.1	78.1	78.1	
67.0	73.1	74.2	75.5	77.0	77.3	78.0	78.3	78.3	78.6	78.9	79.0	79.0	79.0	79.0	79.0	
68.3	75.2	76.5	78.0	79.6	80.0	80.8	81.1	81.1	81.5	82.0	82.1	82.1	82.1	82.1	82.1	
70.4	78.3	80.0	81.8	83.5	83.9	84.6	85.0	85.1	85.8	86.2	86.3	86.3	86.3	86.3	86.3	
71.1	79.2	81.1	83.3	85.2	85.5	86.3	86.7	86.9	87.7	88.1	88.3	88.3	88.3	88.3	88.3	
72.0	81.0	82.9	85.1	87.3	87.8	88.8	89.1	89.3	90.1	90.5	90.8	90.8	90.8	90.8	90.8	
72.5	81.6	83.5	85.8	88.2	88.7	89.9	90.2	90.4	91.2	91.7	91.9	91.9	91.9	91.9	91.9	
72.5	81.8	83.6	86.0	88.4	88.9	90.1	90.5	90.9	91.7	92.1	92.3	92.4	92.4	92.5	92.5	
72.5	82.0	83.9	86.3	88.9	89.3	90.7	91.1	91.4	92.3	92.8	93.0	93.2	93.2	93.3	93.3	
72.5	82.2	84.1	86.5	89.2	89.8	91.3	91.8	92.3	93.3	94.1	94.4	94.7	95.1	95.2	95.2	
72.5	82.3	84.3	86.8	89.7	90.4	92.7	93.2	93.8	95.0	96.0	96.4	96.8	97.2	97.4	97.4	
72.5	82.3	84.3	86.8	89.7	90.4	92.8	93.7	94.3	96.1	97.3	97.8	98.4	98.9	99.1	99.4	
72.5	82.3	84.3	86.8	89.7	90.4	92.9	93.8	94.4	96.2	97.6	98.0	99.0	99.4	99.7	100.0	
72.5	82.3	84.3	86.8	89.7	90.4	92.9	93.8	94.4	96.2	97.6	98.0	99.0	99.4	99.7	100.0	
72.5	82.3	84.3	86.8	89.7	90.4	92.9	93.8	94.4	96.2	97.6	98.0	99.0	99.4	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

2

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

42.1	43.3	43.9	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.9	44.9	45.0	45.0	
46.4	50.1	50.7	51.4	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.8	51.8	52.0	52.0	
47.3	51.0	51.6	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7	52.7	52.9	52.9	
47.4	51.1	51.7	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.8	52.8	53.0	53.0	
48.6	52.2	52.8	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.9	53.9	54.1	54.1	
50.0	53.7	54.2	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.6	55.6	
51.6	55.4	56.1	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.4	57.4	
52.7	56.6	57.2	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.6	58.6	
55.9	60.4	61.2	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.7	62.7	
56.6	61.1	61.9	62.8	63.0	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.6	63.6	
56.7	61.6	62.3	63.2	63.6	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.9	63.9	64.1	64.1	
57.8	62.9	63.7	64.6	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.2	65.4	65.4	
58.4	63.6	64.5	65.2	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.9	65.9	66.1	66.1	
59.7	65.4	66.2	67.1	67.4	67.6	67.9	68.0	68.1	68.3	68.3	68.3	68.4	68.4	68.7	68.7	
60.6	66.8	67.6	68.4	68.8	68.9	69.2	69.3	69.4	69.7	69.7	69.7	69.8	69.8	70.0	70.0	
62.3	69.1	70.0	71.0	71.3	71.4	71.8	72.0	72.1	72.3	72.3	72.3	72.4	72.4	72.7	72.7	
65.1	72.6	73.7	74.8	75.1	75.2	75.6	75.8	75.9	76.1	76.1	76.1	76.2	76.2	76.4	76.4	
67.3	75.4	76.9	78.1	78.4	78.6	79.4	79.7	79.8	80.0	80.0	80.0	80.1	80.1	80.3	80.3	
67.8	76.0	77.6	78.8	79.1	79.2	80.2	80.4	80.6	80.8	80.8	80.8	80.9	80.9	81.1	81.1	
69.3	78.2	80.0	81.3	82.1	82.2	83.2	83.4	83.6	83.8	83.8	83.8	83.9	83.9	84.1	84.1	
70.9	81.8	84.0	85.7	86.6	86.8	88.1	88.6	88.7	89.0	89.0	89.0	89.1	89.1	89.3	89.3	
71.3	82.8	85.2	87.1	88.1	88.3	89.7	90.2	90.4	90.9	90.9	90.9	91.0	91.0	91.2	91.2	
71.7	83.6	86.0	88.1	89.6	89.9	91.3	91.9	92.1	92.6	92.6	92.6	92.7	92.7	92.9	92.9	
72.1	84.1	86.7	88.8	90.2	90.7	92.1	92.8	93.0	93.4	93.7	93.7	93.8	93.8	94.0	94.0	
72.3	84.4	87.1	89.3	90.9	91.3	93.2	93.9	94.1	94.6	94.8	94.8	95.0	95.0	95.2	95.2	
72.6	84.7	87.3	89.6	91.1	91.6	93.4	94.2	94.4	94.9	95.1	95.1	95.3	95.3	95.6	95.6	
72.6	84.8	87.4	89.9	91.4	92.0	94.2	95.0	95.2	95.9	96.3	96.3	96.6	96.9	97.1	97.1	
72.6	84.8	87.6	90.0	91.7	92.4	94.7	95.7	95.9	96.7	97.1	97.1	97.6	97.9	98.1	98.1	
72.6	84.8	87.6	90.0	91.7	92.6	95.0	96.1	96.3	97.6	98.1	98.1	98.6	98.9	99.3	99.4	
72.6	84.8	87.6	90.0	91.7	92.6	95.0	96.1	96.3	97.6	98.2	98.2	98.9	99.2	99.7	99.8	
72.6	84.8	87.6	90.0	91.7	92.6	95.0	96.1	96.3	97.6	98.2	98.2	98.9	99.2	99.7	99.9	
72.6	84.8	87.6	90.0	91.7	92.6	95.0	96.1	96.3	97.6	98.2	98.2	98.9	99.2	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC [illegible] A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1500-1700

43.1	43.6	44.2	44.6	44.7	44.8	44.8	44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
47.1	50.8	51.4	51.8	51.9	52.0	52.0	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	
47.6	51.2	51.9	52.2	52.3	52.4	52.4	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
47.7	51.3	52.0	52.3	52.4	52.6	52.6	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
48.9	52.8	53.4	53.8	53.9	54.0	54.0	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	
51.1	55.3	56.0	56.3	56.4	56.6	56.6	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	
53.8	58.2	58.9	59.2	59.3	59.4	59.4	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
54.4	58.9	59.6	59.9	60.0	60.1	60.1	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	
57.9	62.4	63.1	63.4	63.6	63.7	63.7	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	
58.7	63.2	63.9	64.2	64.4	64.6	64.7	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	
58.9	63.7	64.3	64.8	65.1	65.2	65.4	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
59.3	64.2	64.9	65.3	65.8	65.9	66.1	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	
60.2	65.1	65.8	66.2	66.7	66.8	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	
61.4	67.2	68.2	68.7	69.1	69.2	69.6	69.7	69.7	70.0	70.0	70.0	70.1	70.1	70.1	70.1	
61.8	67.8	68.9	69.3	69.8	69.9	70.2	70.3	70.3	70.7	70.7	70.7	70.8	70.8	70.8	70.8	
64.6	70.9	72.1	72.6	73.0	73.1	73.4	73.6	73.6	73.9	73.9	73.9	74.0	74.0	74.0	74.0	
67.9	75.0	76.3	76.9	77.3	77.8	78.1	78.2	79.2	78.6	78.6	78.6	78.7	78.8	78.8	78.8	
69.9	77.6	79.3	80.2	80.8	81.3	82.1	82.2	82.2	82.6	82.6	82.6	82.7	82.8	82.8	82.8	
70.9	79.1	81.0	81.9	82.4	83.2	84.0	84.1	84.1	84.4	84.4	84.4	84.6	84.7	84.7	84.7	
72.0	80.4	82.9	84.0	84.6	85.3	86.2	86.3	86.3	86.7	86.8	86.8	86.9	87.0	87.0	87.0	
73.6	83.8	86.6	88.0	88.6	89.3	90.3	90.4	90.4	90.9	91.0	91.0	91.1	91.2	91.2	91.2	
74.3	84.9	87.8	89.2	90.1	90.9	92.1	92.3	92.3	92.8	92.9	92.9	93.0	93.1	93.1	93.1	
74.3	85.0	87.9	89.4	90.7	91.4	92.7	92.9	92.9	93.3	93.4	93.4	93.7	93.8	93.8	93.8	
74.6	85.2	88.1	89.8	91.1	91.9	93.1	93.3	93.4	94.1	94.2	94.2	94.7	94.8	94.8	94.8	
74.8	85.4	88.3	90.1	91.4	92.4	93.8	94.0	94.1	94.8	94.9	94.9	95.3	95.4	95.4	95.4	
74.8	85.6	88.4	90.3	91.7	92.7	94.0	94.2	94.3	95.1	95.2	95.2	95.8	95.9	95.9	95.9	
74.8	85.6	88.6	90.6	91.9	92.9	94.6	95.0	95.2	96.1	96.2	96.2	96.9	97.0	97.0	97.0	
74.8	85.6	88.7	90.8	92.2	93.3	95.1	95.7	95.9	97.0	97.1	97.3	98.1	98.2	98.2	98.2	
74.8	85.6	88.7	90.9	92.3	93.4	95.3	95.9	96.1	97.3	97.8	98.0	98.9	99.1	99.3	99.3	
74.8	85.6	88.7	90.9	92.3	93.4	95.3	95.9	96.1	97.4	97.9	98.1	99.0	99.2	99.4	99.4	
74.8	85.6	88.7	90.9	92.3	93.4	95.3	95.9	96.1	97.4	97.9	98.1	99.1	99.3	99.7	99.9	
74.8	85.6	88.7	90.9	92.3	93.4	95.3	95.9	96.1	97.4	97.9	98.1	99.1	99.3	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

USAFETAC ... DOD ... DLA ...

1 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
2 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1800-2000

45.7	47.2	47.4	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.9	47.9	47.9	47.9	47.9	47.9	
50.2	52.2	52.4	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	
50.3	52.3	52.6	52.7	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	
50.4	52.4	52.7	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	
51.9	54.0	54.2	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	
54.7	57.0	57.2	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	
56.2	60.7	60.9	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	
58.3	60.8	61.0	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	
60.3	63.1	63.3	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	
61.3	64.1	64.3	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	
61.9	64.7	64.9	65.0	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	
62.9	65.6	65.8	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	
63.4	66.2	66.4	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	
66.1	69.1	69.3	69.8	70.3	70.3	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	
67.2	70.7	70.9	71.3	71.9	71.9	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	
71.1	73.9	74.1	74.7	75.2	75.2	75.4	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	
72.8	77.1	77.3	77.9	78.4	78.4	78.7	78.7	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.0	
75.7	80.3	81.1	81.7	82.2	82.2	82.4	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	
76.2	80.9	81.6	82.2	82.8	82.8	83.0	83.1	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	
78.0	83.7	84.6	85.4	86.0	86.0	86.2	86.3	86.6	86.7	87.1	87.1	87.1	87.1	87.1	87.1	
79.2	85.4	86.8	87.9	88.4	88.4	88.7	88.8	89.0	89.1	89.6	89.6	89.6	89.6	89.6	89.6	
80.4	87.1	88.4	89.6	90.2	90.3	90.8	91.0	91.2	91.3	91.8	91.8	91.8	91.8	91.8	91.8	
80.7	87.4	88.8	89.9	90.6	90.8	91.2	91.4	91.7	91.9	92.3	92.3	92.6	92.6	92.6	92.6	
81.0	87.9	89.2	90.3	91.0	91.2	91.8	92.0	92.7	92.9	93.3	93.3	93.6	93.6	93.6	93.6	
81.1	88.2	89.6	90.8	91.4	91.8	92.4	92.7	93.3	93.7	94.1	94.1	94.3	94.3	94.3	94.3	
81.1	88.4	89.9	91.1	92.2	92.6	93.3	93.6	94.2	94.7	95.4	95.4	95.7	95.7	95.7	95.7	
81.1	88.6	90.1	91.3	92.4	92.9	93.7	93.9	94.6	95.1	95.9	95.9	96.1	96.1	96.1	96.1	
81.2	88.8	90.6	91.9	93.0	93.6	94.7	94.9	95.9	96.6	97.3	97.3	97.7	97.7	97.7	97.7	
81.2	88.8	90.6	91.9	93.0	93.6	95.1	95.3	96.6	97.2	98.0	98.0	98.7	98.7	98.8	98.8	
81.2	88.8	90.6	91.9	93.0	93.6	95.1	95.3	96.6	97.4	98.2	98.2	98.9	98.9	99.1	99.1	
81.2	88.8	90.6	91.9	93.0	93.6	95.1	95.3	96.6	97.4	98.3	98.3	99.1	99.1	99.3	99.4	
81.2	88.8	90.6	91.9	93.0	93.6	95.1	95.3	96.6	97.4	98.3	98.3	99.2	99.2	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

2100-2300

45.4	46.7	47.1	47.1	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
50.4	52.0	52.3	52.4	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
50.4	52.0	52.3	52.4	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
50.4	52.0	52.3	52.4	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
51.3	53.1	53.4	53.6	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
53.0	55.1	55.4	55.6	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
56.7	58.9	59.2	59.3	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
57.2	59.4	59.8	59.9	60.4	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
59.1	61.6	61.9	62.2	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
59.8	62.3	62.7	63.0	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
60.2	62.9	63.2	63.7	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
62.3	65.0	65.3	65.8	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
62.6	65.2	65.6	66.0	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
65.3	68.4	68.8	69.2	70.2	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
66.2	69.6	69.9	70.3	71.3	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
68.9	72.4	72.8	73.2	74.2	74.2	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
71.2	75.2	75.6	76.0	77.0	77.0	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
75.1	79.1	79.4	80.3	81.3	81.6	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
75.9	80.1	80.6	81.4	82.4	82.7	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
78.2	83.6	84.3	85.4	86.7	86.9	87.4	87.7	87.7	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9
79.3	84.9	85.7	86.8	88.0	88.2	88.9	89.1	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3
79.8	86.1	86.9	88.3	89.6	89.8	90.4	90.7	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
80.4	86.9	87.8	89.2	90.6	90.9	91.6	92.0	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
80.4	87.1	87.9	89.3	90.7	91.0	91.7	92.1	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0
80.4	87.6	88.6	90.1	91.4	91.8	92.4	92.9	93.6	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
80.6	87.8	89.1	90.7	92.3	92.7	93.3	93.8	94.4	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
80.7	88.0	89.3	91.0	92.9	93.2	94.1	94.6	95.2	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6
80.7	88.1	89.4	91.3	93.4	93.8	95.2	95.7	96.4	96.9	97.1	97.1	97.4	97.4	97.4	97.4	97.4
80.9	88.3	89.7	91.6	93.7	94.0	95.7	96.1	97.2	97.9	98.1	98.1	98.4	98.4	98.4	98.4	98.4
80.9	88.3	89.7	91.6	93.7	94.0	95.8	96.3	97.7	98.3	98.7	98.7	99.0	99.0	99.0	99.0	99.0
80.9	88.3	89.7	91.6	93.7	94.0	95.8	96.3	97.7	98.3	98.7	98.7	99.0	99.0	99.3	99.8	
80.9	88.3	89.7	91.6	93.7	94.0	95.8	96.3	97.7	98.3	98.7	98.7	99.0	99.0	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

43.4	45.5	45.9	46.2	46.5	46.6	46.7	46.8	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	
48.1	50.4	50.9	51.2	51.6	51.6	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	52.0	52.0	
48.3	50.7	51.1	51.4	51.8	51.8	52.0	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	
48.4	50.7	51.2	51.5	51.9	51.9	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.3	52.3	
49.1	51.5	52.0	52.3	52.7	52.7	52.8	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
51.0	53.5	54.0	54.3	54.7	54.7	54.8	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	
54.0	56.8	57.2	57.5	57.9	58.0	58.1	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	
54.4	57.2	57.7	58.0	58.4	58.4	58.5	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.8	58.8	
56.7	59.8	60.4	60.7	61.3	61.3	61.4	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.7	61.7	
57.4	60.6	61.2	61.6	62.2	62.2	62.4	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
57.9	61.2	61.8	62.2	62.8	62.8	63.1	63.1	63.1	63.2	63.2	63.2	63.3	63.3	63.3	63.3	
59.6	63.1	63.8	64.2	64.9	64.9	65.1	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.4	65.4	
60.3	63.8	64.5	64.9	65.6	65.6	65.8	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.1	66.1	
62.3	66.3	67.0	67.4	68.2	68.2	68.6	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
63.2	67.4	68.1	68.6	69.3	69.4	69.7	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.1	70.1	
65.6	70.1	70.8	71.4	72.2	72.3	72.6	72.7	72.8	72.9	73.0	73.0	73.0	73.0	73.2	73.2	
67.9	73.0	73.8	74.4	75.3	75.4	75.9	76.1	76.1	76.3	76.3	76.3	76.4	76.4	76.4	76.4	
71.2	76.7	77.8	78.6	79.5	79.7	80.4	80.6	80.6	80.8	80.9	80.9	81.0	81.0	81.0	81.0	
71.9	77.6	78.7	79.5	80.5	80.7	81.4	81.6	81.6	81.8	81.9	81.9	82.0	82.0	82.0	82.0	
73.7	80.1	81.5	82.5	83.7	83.9	84.6	84.8	84.9	85.2	85.4	85.4	85.4	85.5	85.5	85.5	
75.0	82.2	83.9	85.0	86.2	86.5	87.3	87.6	87.7	88.0	88.2	88.2	88.3	88.3	88.3	88.3	
75.7	83.4	85.1	86.5	87.8	88.0	88.9	89.3	89.4	89.8	90.0	90.0	90.1	90.1	90.2	90.2	
76.1	84.2	85.9	87.4	89.0	89.4	90.3	90.7	90.9	91.4	91.6	91.6	91.7	91.7	91.8	91.8	
76.3	84.4	86.3	87.8	89.4	89.9	91.0	91.4	91.7	92.4	92.6	92.6	92.8	92.8	92.8	92.8	
76.5	84.8	86.7	88.3	90.0	90.5	91.7	92.3	92.7	93.3	93.5	93.6	93.8	93.8	93.8	93.8	
76.6	85.1	87.0	88.7	90.5	91.0	92.4	93.0	93.3	94.1	94.4	94.4	94.6	94.6	94.7	94.7	
76.7	85.3	87.3	89.1	91.0	91.6	93.1	93.8	94.3	95.2	95.6	95.6	95.9	96.0	96.0	96.0	
76.7	85.4	87.7	89.7	91.8	92.5	94.4	95.2	95.7	96.8	97.3	97.4	97.8	97.9	97.9	97.9	
76.8	85.5	87.7	89.7	91.9	92.6	94.6	95.6	96.2	97.5	98.1	98.2	98.7	98.8	99.0	99.0	
76.8	85.5	87.7	89.7	91.9	92.6	94.7	95.7	96.3	97.7	98.4	98.5	99.0	99.2	99.3	99.4	
76.8	85.5	87.7	89.7	91.9	92.6	94.7	95.7	96.3	97.8	98.4	98.6	99.2	99.3	99.6	99.8	
76.8	85.5	87.7	89.7	91.9	92.6	94.7	95.7	96.3	97.8	98.4	98.6	99.2	99.4	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS 7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0000-0200

	42.2	43.0	43.4	43.8	44.1	44.2	44.2	44.2	44.4	44.4	44.5	44.5	44.5	44.5	44.6	44.7	
	43.9	44.8	45.3	45.7	46.0	46.1	46.1	46.1	46.3	46.3	46.5	46.5	46.5	46.5	46.6	46.7	
	43.9	44.8	45.3	45.7	46.0	46.1	46.1	46.1	46.3	46.3	46.5	46.5	46.5	46.5	46.6	46.7	
	43.9	44.8	45.3	45.7	46.0	46.1	46.1	46.1	46.3	46.3	46.5	46.5	46.5	46.5	46.6	46.7	
	44.3	45.3	45.7	46.1	46.5	46.6	46.6	46.6	46.8	46.8	46.9	46.9	46.9	46.9	47.0	47.1	
	46.5	46.5	46.9	47.3	47.6	47.7	47.7	47.7	48.0	48.0	48.1	48.1	48.1	48.1	48.2	48.3	
	50.0	51.2	51.7	52.3	52.6	52.7	52.7	52.7	52.9	53.0	53.1	53.1	53.1	53.1	53.2	53.3	
	50.8	52.3	52.8	53.3	53.7	53.8	53.8	53.8	54.0	54.1	54.2	54.2	54.2	54.2	54.3	54.4	
	53.0	54.6	55.2	55.7	56.0	56.1	56.1	56.1	56.3	56.5	56.6	56.6	56.6	56.6	56.7	56.8	
	54.1	56.6	57.1	57.6	58.0	58.1	58.1	58.2	58.4	58.5	58.6	58.6	58.6	58.6	58.7	58.8	
	56.0	58.8	59.9	60.5	61.0	61.1	61.1	61.2	61.4	61.5	61.6	61.6	61.6	61.6	61.7	61.8	
	58.7	61.8	63.0	63.8	64.3	64.4	64.4	64.5	64.8	64.9	65.1	65.1	65.1	65.1	65.2	65.3	
	59.3	62.5	63.7	64.4	64.9	65.1	65.1	65.2	65.5	65.6	65.7	65.7	65.7	65.7	65.8	65.9	
	60.8	64.6	66.1	67.1	67.7	67.8	67.8	68.0	68.3	68.7	68.8	68.8	68.8	68.8	68.9	69.0	
	62.3	66.6	68.3	69.4	70.0	70.1	70.1	70.2	70.5	71.0	71.1	71.1	71.1	71.1	71.2	71.3	
	64.0	69.1	71.0	72.2	72.8	72.9	72.9	73.0	73.3	73.8	73.9	73.9	73.9	73.9	74.0	74.1	
	65.4	71.3	73.4	74.9	75.7	76.0	76.0	76.1	76.5	76.9	77.0	77.0	77.0	77.0	77.1	77.2	
	66.9	73.4	75.7	77.4	78.3	78.7	78.7	78.9	79.2	79.7	79.8	79.8	79.8	79.8	79.9	80.0	
	67.4	74.0	76.3	78.1	78.9	79.4	79.4	79.6	79.9	80.3	80.4	80.4	80.4	80.4	80.5	80.6	
	69.1	75.9	78.4	80.2	81.3	81.9	81.9	82.2	82.5	82.9	83.0	83.0	83.0	83.0	83.1	83.2	
	71.6	78.8	81.5	83.3	84.6	85.3	85.6	85.8	86.1	86.7	86.8	86.8	86.8	86.8	86.9	87.0	
	72.3	80.0	82.7	84.7	86.0	86.7	87.0	87.2	87.5	88.1	88.3	88.3	88.3	88.3	88.4	88.5	
	72.9	81.0	83.9	86.0	87.3	88.0	88.3	88.6	88.9	89.5	89.7	89.7	89.7	89.7	89.8	89.9	
	73.2	81.3	84.4	86.8	88.4	89.0	89.4	89.7	90.0	90.5	90.8	90.8	90.8	90.8	90.9	91.0	
	73.8	82.4	85.6	88.2	89.9	90.5	90.9	91.3	91.6	92.2	92.4	92.4	92.4	92.4	92.5	92.6	
	73.8	82.4	85.7	88.3	90.0	90.6	91.1	91.8	92.2	92.7	92.9	92.9	92.9	92.9	93.0	93.1	
	73.9	82.7	86.1	88.7	90.4	91.1	91.5	92.3	92.6	93.1	93.3	93.3	93.7	93.7	93.8	93.9	
	73.9	83.1	86.8	89.5	91.3	92.2	92.7	94.0	94.3	94.9	95.4	95.6	96.0	96.0	96.1	96.2	
	73.9	83.1	86.8	89.6	91.6	92.6	93.4	95.1	96.1	97.0	97.4	97.6	98.1	98.1	98.2	98.3	
	73.9	83.1	86.8	89.6	91.6	92.6	93.4	95.3	96.3	97.5	98.5	98.7	99.1	99.1	99.6	99.7	
	73.9	83.1	86.8	89.6	91.6	92.6	93.4	95.3	96.3	97.5	98.5	98.7	99.1	99.1	99.9	100.0	
	73.9	83.1	86.8	89.6	91.6	92.6	93.4	95.3	96.3	97.5	98.5	98.7	99.1	99.1	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-87 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1300-1500

42.1	42.8	43.1	43.5	44.1	44.1	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	
43.9	44.7	45.1	45.5	46.0	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	
43.9	44.7	45.1	45.5	46.0	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	
44.0	44.8	45.2	45.6	46.1	46.1	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	
44.2	45.1	45.4	45.8	46.3	46.3	46.5	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	
45.4	46.2	46.6	47.0	47.5	47.5	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	
50.4	51.5	51.9	52.4	53.1	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	
51.1	52.4	52.8	53.2	54.0	54.0	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	
53.2	54.5	54.9	55.4	56.1	56.1	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	
54.6	56.2	56.7	57.1	57.8	57.8	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	
56.7	58.5	59.1	59.8	60.6	60.6	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	
58.8	61.4	62.0	62.8	63.8	63.8	64.0	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	
59.5	62.4	63.0	63.8	64.8	64.8	65.1	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
62.0	65.3	66.1	67.0	68.2	68.2	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	
63.9	67.2	68.2	69.1	70.4	70.4	70.6	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	
65.7	69.6	70.9	72.2	73.4	73.4	73.7	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	
67.0	71.6	73.2	74.9	76.2	76.2	76.5	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	
68.7	74.4	76.3	78.2	79.5	79.6	79.8	80.0	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	
69.0	75.1	77.0	78.8	80.1	80.2	80.4	80.6	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	
70.9	77.3	79.4	81.3	82.6	82.8	83.3	83.5	83.8	84.1	84.2	84.2	84.3	84.3	84.3	84.3	
72.3	79.0	81.1	83.0	84.4	84.6	85.4	85.6	85.8	86.1	86.2	86.2	86.3	86.3	86.3	86.3	
73.3	80.2	82.3	84.3	85.7	86.0	86.8	87.1	87.4	87.7	87.8	87.8	88.0	88.0	88.0	88.2	
73.5	80.6	82.8	84.8	86.3	86.7	87.4	87.7	88.1	88.4	88.5	88.5	88.6	88.6	88.6	88.6	
73.8	81.1	83.4	85.9	87.4	87.7	88.5	88.8	89.1	89.6	89.7	89.7	89.8	89.8	89.8	89.8	
74.1	81.6	84.2	86.9	88.6	89.1	90.3	90.6	91.0	91.5	91.6	91.6	91.8	91.8	91.8	91.8	
74.4	82.3	85.2	88.0	89.9	90.4	91.9	92.3	92.6	93.1	93.2	93.2	93.4	93.4	93.4	93.4	
74.4	82.3	85.2	88.0	90.1	90.6	92.4	92.8	93.1	93.7	93.8	93.8	94.1	94.1	94.1	94.1	
74.4	82.6	85.5	88.4	90.6	91.2	93.1	93.9	94.2	95.1	95.2	95.2	95.6	95.6	95.6	95.6	
74.4	82.6	85.5	88.4	90.6	91.2	93.5	94.5	95.3	96.3	97.0	97.0	97.4	97.4	97.4	97.4	
74.4	82.6	85.5	88.4	90.6	91.2	93.8	95.1	96.0	97.3	98.3	98.4	98.9	98.9	98.9	98.9	
74.4	82.6	85.5	88.4	90.6	91.2	93.8	95.1	96.0	97.4	98.4	98.5	99.0	99.0	99.4	99.4	
74.4	82.6	85.5	88.4	90.6	91.2	93.8	95.1	96.0	97.4	98.4	98.5	99.0	99.0	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0600-2800

41.0	43.9	44.4	44.8	45.2	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
43.5	46.5	47.1	47.4	47.7	47.8	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
43.7	46.6	47.1	47.5	47.8	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
43.7	46.6	47.1	47.5	47.8	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
44.1	47.0	47.5	48.0	48.3	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
45.3	48.2	48.7	49.1	49.5	49.6	49.9	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
48.7	51.9	52.5	52.9	53.2	53.3	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
49.2	52.5	53.0	53.4	53.8	53.9	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
51.9	55.3	56.0	56.5	56.8	56.9	57.2	57.2	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
53.4	57.2	58.1	58.5	58.9	59.0	59.7	59.7	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
54.8	58.9	59.8	60.3	60.9	61.0	61.6	61.6	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
58.2	62.5	63.9	64.4	65.1	65.2	65.8	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
58.5	63.2	64.6	65.2	65.8	65.9	66.6	66.6	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
60.1	65.3	66.7	67.4	68.2	68.3	69.1	69.1	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
60.6	66.5	68.1	68.8	69.8	69.9	70.8	70.8	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
62.6	69.0	70.6	71.5	72.5	72.6	73.4	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
64.3	71.1	73.0	74.1	75.1	75.2	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
66.3	73.9	75.9	77.1	78.2	78.3	79.1	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
66.5	74.2	76.2	77.4	78.5	78.7	79.6	79.7	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
67.5	75.7	77.8	79.1	80.3	80.8	82.5	82.7	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2
68.5	77.1	79.4	80.9	82.3	82.7	85.2	85.5	85.6	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
69.5	78.5	80.9	82.7	84.2	84.7	87.4	88.2	88.3	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
69.7	78.8	81.4	83.4	85.1	85.6	88.3	89.2	89.4	89.7	89.8	89.8	89.8	89.9	89.9	89.9	89.9
70.2	79.4	82.2	84.4	86.2	86.8	89.5	90.4	90.5	90.9	91.0	91.0	91.0	91.1	91.1	91.1	91.1
70.3	79.6	82.6	85.4	87.3	87.8	90.6	91.6	91.8	92.2	92.3	92.3	92.6	92.7	92.7	92.7	92.7
70.5	79.8	83.2	86.1	88.2	88.7	91.5	92.5	92.7	93.0	93.2	93.2	93.5	93.7	93.7	93.7	93.7
70.9	80.2	83.8	86.8	88.9	89.5	92.5	93.4	93.9	94.4	94.6	94.6	94.9	95.1	95.1	95.1	95.2
70.9	80.8	84.3	87.3	89.8	90.4	93.5	94.5	94.9	95.6	95.8	95.8	96.2	96.3	96.3	96.3	96.5
70.9	80.8	84.3	87.3	89.9	90.5	94.0	95.1	96.0	97.4	97.6	97.6	98.2	98.3	98.3	98.3	98.4
70.9	80.8	84.3	87.3	89.9	90.5	94.0	95.1	96.0	97.5	97.7	97.7	98.4	98.5	98.7	99.0	
70.9	80.8	84.4	87.4	90.0	90.6	94.1	95.2	96.1	97.6	97.8	97.8	98.5	98.6	99.1	99.6	
70.9	80.8	84.4	87.4	90.0	90.6	94.1	95.2	96.1	97.6	97.8	97.8	98.5	98.6	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 0900-1100

37.4	41.1	42.1	42.5	42.8	42.9	42.9	42.9	43.1	43.2	43.3	43.3	43.3	43.3	43.3	43.4		
42.0	46.1	47.3	47.7	48.2	48.3	48.4	48.4	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.9		
42.0	46.1	47.3	47.7	48.2	48.3	48.4	48.4	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.9		
42.2	46.2	47.4	47.8	48.3	48.4	48.5	48.5	48.7	48.8	48.9	48.9	48.9	48.9	48.9	49.0		
43.0	47.2	48.4	48.8	49.4	49.5	49.6	49.6	49.8	49.9	50.0	50.0	50.0	50.0	50.0	50.1		
44.1	48.3	49.5	49.9	50.5	50.8	50.9	50.9	51.1	51.3	51.4	51.4	51.4	51.4	51.4	51.5		
47.1	51.7	53.0	53.4	54.1	54.3	54.4	54.4	54.6	54.8	54.9	54.9	54.9	54.9	54.9	55.1		
48.0	52.7	54.1	54.5	55.2	55.4	55.5	55.5	55.7	55.9	56.0	56.0	56.0	56.0	56.0	56.1		
51.4	56.7	58.3	58.8	59.5	59.8	60.0	60.0	60.2	60.4	60.5	60.6	60.6	60.6	60.6	60.8		
52.5	58.0	59.8	60.3	61.0	61.3	61.6	61.6	61.8	62.0	62.2	62.3	62.3	62.3	62.3	62.4		
53.5	59.1	61.1	61.6	62.3	62.6	63.2	63.2	63.4	63.7	63.8	63.9	63.9	63.9	63.9	64.0		
55.1	61.4	63.8	64.6	65.5	65.8	66.6	66.6	66.8	67.0	67.1	67.2	67.2	67.2	67.2	67.3		
55.7	62.2	64.5	65.4	66.2	66.6	67.3	67.3	67.5	67.7	67.8	68.0	68.0	68.0	68.0	68.1		
57.1	64.5	67.1	68.0	69.2	69.7	70.4	70.8	71.0	71.4	71.5	71.6	71.6	71.6	71.6	71.7		
57.1	64.6	67.1	68.2	69.5	69.9	70.6	71.1	71.3	71.7	71.8	71.9	71.9	71.9	71.9	72.0		
58.5	66.5	69.1	70.3	72.0	72.5	73.2	73.7	73.9	74.3	74.4	74.5	74.5	74.5	74.5	74.6		
59.5	68.3	71.7	73.2	75.4	75.8	76.6	77.0	77.2	77.6	77.7	77.8	77.8	77.8	77.8	78.0		
60.4	69.7	73.4	75.1	78.1	78.5	79.5	79.9	80.1	80.5	80.8	80.9	80.9	80.9	80.9	81.0		
60.8	70.2	74.0	75.6	78.7	79.1	80.1	80.5	80.8	81.2	81.4	81.5	81.5	81.5	81.5	81.6		
61.5	71.5	75.3	77.1	80.2	80.8	81.8	82.4	82.6	83.0	83.2	83.3	83.3	83.3	83.3	83.4		
62.0	72.7	76.5	78.4	81.6	82.2	83.5	84.5	84.9	85.6	85.9	86.0	86.0	86.0	86.0	86.1		
62.0	73.3	77.3	79.5	82.8	83.5	84.9	86.0	86.6	87.3	87.6	87.7	87.7	87.7	87.7	87.8		
62.2	73.4	77.6	80.1	83.5	84.3	85.7	86.9	87.4	88.2	88.5	88.6	88.8	89.0	89.1	89.2		
62.5	73.9	78.1	80.6	84.4	85.2	86.7	87.8	88.4	89.2	89.6	89.7	89.9	90.1	90.2	90.3		
62.5	74.0	78.3	81.0	85.2	85.9	87.6	88.8	89.4	90.3	90.6	90.8	91.2	91.4	91.5	91.6		
62.5	74.0	78.3	81.4	85.9	86.7	88.4	89.6	90.1	91.1	91.4	91.5	91.9	92.2	92.3	92.4		
62.5	74.0	78.3	81.8	86.7	87.6	89.5	90.8	91.3	92.5	92.9	93.0	93.4	93.7	93.8	94.2		
62.5	74.3	78.8	82.4	87.4	88.7	90.8	92.5	93.0	94.3	95.1	95.2	95.6	95.8	95.9	96.3		
62.5	74.3	78.8	82.4	87.4	88.7	90.9	92.8	93.3	95.3	96.6	96.9	97.4	97.6	97.8	98.4		
62.5	74.3	78.8	82.4	87.4	88.7	90.9	92.8	93.3	95.3	96.7	97.0	97.7	98.2	98.5	99.0		
62.5	74.3	78.8	82.4	87.4	88.7	90.9	92.8	93.3	95.4	97.0	97.3	98.1	98.5	99.0	99.9		
62.5	74.3	78.8	82.4	87.4	88.7	90.9	92.8	93.3	95.4	97.0	97.3	98.1	98.5	99.1	100.0		

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1200-1400

37.7	41.6	42.0	42.7	43.4	43.7	43.8	43.9	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1
41.9	46.7	47.1	47.7	48.5	48.7	48.8	48.9	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1
42.3	47.0	47.4	48.1	48.8	49.0	49.1	49.2	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5
42.3	47.0	47.4	48.1	48.8	49.0	49.1	49.2	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5
42.9	48.0	48.4	49.0	49.8	50.0	50.1	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4
43.7	48.9	49.4	50.0	50.9	51.1	51.2	51.3	51.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5
46.0	51.7	52.3	52.9	53.9	54.1	54.2	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5
46.5	52.2	52.9	53.4	54.4	54.6	54.7	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
49.0	55.5	56.1	57.0	58.2	58.4	58.6	58.8	58.8	59.0	59.0	59.2	59.2	59.2	59.2	59.2
50.0	56.6	57.2	58.2	59.4	59.6	59.8	60.0	60.0	60.2	60.2	60.4	60.4	60.4	60.4	60.4
51.4	58.5	59.1	60.2	61.4	61.7	62.2	62.4	62.4	62.6	62.6	62.8	62.8	62.8	62.8	62.8
53.8	61.4	62.5	63.8	65.4	65.7	66.2	66.5	66.5	66.9	66.9	67.1	67.1	67.1	67.1	67.1
53.8	61.4	62.5	63.8	65.5	65.8	66.5	66.7	66.7	67.1	67.1	67.3	67.3	67.3	67.3	67.3
55.1	63.0	64.5	66.7	68.9	69.2	70.3	70.5	70.5	71.1	71.1	71.3	71.5	71.5	71.5	71.5
55.2	63.2	64.7	66.9	69.1	69.5	70.5	70.9	70.9	71.5	71.5	71.7	71.9	71.9	71.9	71.9
56.2	64.3	65.8	68.0	70.4	70.8	71.9	72.3	72.3	73.0	73.0	73.2	73.4	73.4	73.4	73.4
57.1	65.4	67.0	69.1	72.0	72.5	74.1	74.4	74.4	75.2	75.3	75.5	75.7	75.7	75.7	75.7
58.0	66.5	68.3	70.9	74.3	74.7	76.3	76.8	76.8	77.5	77.6	77.8	78.1	78.1	78.1	78.1
58.4	67.3	69.1	71.7	75.2	75.6	77.5	78.0	78.0	78.7	78.8	79.0	79.2	79.2	79.2	79.2
59.5	69.2	71.2	73.8	77.4	78.0	80.0	80.4	80.4	81.4	81.5	81.7	81.9	81.9	81.9	81.9
60.0	70.9	73.0	75.7	79.6	80.1	82.2	82.8	82.9	84.2	84.4	84.6	84.8	84.8	84.8	84.8
60.3	72.0	74.6	77.6	81.6	82.3	84.3	84.9	85.1	86.3	86.6	86.8	87.2	87.2	87.2	87.2
60.4	72.6	75.4	78.7	82.9	83.7	85.9	86.6	86.7	88.1	88.3	88.5	88.9	89.1	89.2	89.2
60.5	72.9	76.2	79.6	84.0	84.7	87.1	87.7	88.0	89.5	89.7	89.9	90.4	90.6	90.8	90.8
60.5	72.9	76.2	79.8	84.4	85.2	87.6	88.5	88.7	90.2	90.5	90.8	91.5	91.7	91.8	91.8
60.5	73.1	76.8	80.9	86.1	86.9	89.6	90.4	90.6	92.2	92.5	92.7	93.4	93.7	93.8	93.8
60.6	73.2	77.1	81.5	87.0	88.0	91.0	92.0	92.3	93.9	94.2	94.4	95.2	95.4	95.5	95.8
60.6	73.2	77.2	81.6	87.2	88.4	91.5	92.8	93.0	94.9	95.3	95.8	96.7	96.9	97.0	97.3
60.6	73.2	77.2	81.6	87.2	88.4	91.5	93.2	93.5	95.7	96.1	96.8	97.8	98.1	98.3	98.6
60.6	73.2	77.2	81.6	87.2	88.4	91.5	93.2	93.5	95.7	96.2	96.9	98.6	98.8	99.0	99.4
60.6	73.2	77.2	81.6	87.2	88.4	91.5	93.2	93.5	95.7	96.2	96.9	98.6	98.8	99.4	100.0
60.6	73.2	77.2	81.6	87.2	88.4	91.5	93.2	93.5	95.7	96.2	96.9	98.6	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

39.0	42.9	43.0	43.1	43.8	44.0	44.1	44.2	44.2	44.3	44.4	44.4	44.4	44.4	44.4	44.4	
43.7	48.3	48.6	48.7	49.5	49.7	49.8	49.9	49.9	50.0	50.2	50.2	50.2	50.2	50.2	50.2	
44.4	49.0	49.4	49.5	50.2	50.4	50.5	50.6	50.6	50.8	51.0	51.0	51.0	51.0	51.0	51.0	
44.4	49.1	49.5	49.6	50.3	50.5	50.6	50.8	50.8	50.9	51.1	51.1	51.1	51.1	51.1	51.1	
44.8	49.8	50.1	50.2	51.0	51.2	51.3	51.4	51.4	51.5	51.7	51.7	51.7	51.7	51.7	51.7	
46.5	51.4	51.7	51.8	52.6	52.8	52.9	53.0	53.0	53.1	53.3	53.3	53.3	53.3	53.3	53.3	
49.6	55.5	55.9	56.1	56.9	57.1	57.2	57.3	57.3	57.6	57.8	57.8	57.8	57.8	57.8	57.8	
50.0	56.0	56.6	56.8	57.5	57.7	57.8	58.0	58.0	58.3	58.5	58.5	58.5	58.5	58.5	58.5	
51.3	58.2	58.9	59.2	60.2	60.5	60.6	60.8	60.8	61.1	61.3	61.3	61.3	61.3	61.3	61.3	
52.7	59.7	60.4	60.8	61.8	62.2	62.3	62.4	62.4	62.7	62.9	62.9	62.9	62.9	62.9	62.9	
53.9	61.8	62.6	62.9	64.2	64.5	64.8	64.9	64.9	65.5	65.7	65.7	65.7	65.7	65.7	65.7	
55.3	63.8	64.5	65.2	66.9	67.2	67.5	67.6	67.6	68.2	68.4	68.4	68.4	68.4	68.4	68.4	
55.6	64.1	64.8	65.5	67.2	67.5	67.8	68.0	68.0	68.5	68.7	68.7	68.7	68.7	68.7	68.7	
57.0	66.0	67.3	68.2	70.1	70.6	71.3	71.4	71.4	71.9	72.2	72.2	72.2	72.2	72.2	72.2	
57.4	66.5	67.7	68.6	70.5	71.1	71.7	71.8	71.8	72.4	72.6	72.6	72.6	72.6	72.6	72.6	
58.6	67.7	69.0	69.9	71.8	72.5	73.1	73.2	73.2	73.9	74.1	74.1	74.1	74.1	74.1	74.1	
59.6	69.5	71.4	72.5	74.5	75.3	75.9	76.1	76.1	76.9	77.3	77.3	77.3	77.3	77.3	77.3	
61.1	71.7	73.7	74.9	77.1	77.8	78.7	79.0	79.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	
61.2	72.2	74.1	75.4	77.5	78.3	79.1	79.5	79.5	80.4	80.9	80.9	80.9	80.9	80.9	80.9	
62.5	74.1	76.2	77.8	80.0	80.8	81.9	82.3	82.3	83.5	84.0	84.0	84.0	84.0	84.0	84.0	
63.2	75.7	77.8	79.7	82.0	82.8	84.1	84.4	84.4	85.9	86.3	86.3	86.3	86.3	86.3	86.3	
63.8	76.9	79.1	81.2	83.7	84.4	85.9	86.2	86.2	88.1	88.5	88.5	88.6	88.6	88.6	88.7	
63.8	77.0	79.5	81.9	84.5	85.6	87.3	87.7	87.7	89.6	90.0	90.0	90.2	90.4	90.4	90.5	
63.9	77.2	79.8	82.5	85.3	86.3	88.1	88.8	89.0	90.9	91.3	91.3	91.6	91.8	91.8	91.9	
63.9	77.3	79.9	83.0	86.0	87.1	88.9	89.9	90.2	92.0	92.6	92.6	93.0	93.2	93.2	93.3	
63.9	77.3	80.0	83.7	87.3	88.4	90.3	91.3	91.6	93.4	94.0	94.0	94.4	94.6	94.6	94.7	
63.9	77.4	80.1	83.9	87.5	88.6	90.5	91.9	92.4	94.3	95.2	95.2	95.7	95.9	95.9	96.0	
63.9	77.6	80.6	84.4	88.1	89.4	91.5	92.9	93.3	95.6	96.5	96.7	97.2	97.4	97.4	97.5	
63.9	77.7	80.8	84.5	88.4	89.8	92.0	93.5	94.1	96.5	97.3	97.5	98.1	98.3	98.3	98.4	
63.9	77.7	80.9	84.6	88.5	89.9	92.2	93.7	94.3	96.7	97.6	97.8	98.8	99.0	99.0	99.1	
63.9	77.7	80.9	84.6	88.5	89.9	92.2	93.7	94.3	96.7	97.7	98.0	98.9	99.1	99.5	100.0	
63.9	77.7	80.9	84.6	88.5	89.9	92.2	93.7	94.3	96.7	97.7	98.0	98.9	99.1	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC [illegible] 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 1800-2000

41.1	43.8	44.1	44.7	44.8	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	
44.1	47.0	47.5	48.0	48.1	48.2	48.4	48.4	48.4	48.4	48.8	48.8	48.8	48.8	48.8	48.8	
44.6	47.5	47.9	48.4	48.5	48.7	48.9	48.9	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	
44.6	47.5	47.9	48.4	48.5	48.7	48.9	48.9	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	
45.2	48.1	48.5	49.1	49.2	49.3	49.5	49.5	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	
46.0	48.9	49.3	49.8	49.9	50.1	50.3	50.3	50.3	50.3	50.6	50.6	50.6	50.6	50.6	50.6	
50.8	54.4	54.8	55.4	55.6	55.7	56.0	56.0	56.0	56.2	56.5	56.5	56.5	56.5	56.5	56.5	
52.0	55.9	56.3	57.0	57.1	57.2	57.5	57.5	57.5	57.7	58.0	58.0	58.0	58.0	58.0	58.0	
53.5	57.9	58.4	59.0	59.2	59.3	59.7	59.7	59.7	59.9	60.2	60.2	60.2	60.2	60.2	60.2	
54.6	59.0	59.4	60.1	60.3	60.4	60.7	60.7	60.7	60.9	61.3	61.3	61.3	61.3	61.3	61.3	
55.6	60.5	60.9	61.9	62.1	62.4	62.7	62.7	62.7	62.9	63.2	63.2	63.2	63.2	63.2	63.2	
56.6	62.1	62.8	63.9	64.3	64.5	64.8	64.8	64.8	65.0	65.4	65.4	65.4	65.4	65.4	65.4	
57.0	62.6	63.2	64.3	64.7	64.9	65.3	65.3	65.3	65.5	65.8	65.8	65.8	65.8	65.8	65.8	
58.5	64.6	65.4	66.8	67.4	67.7	68.1	68.1	68.1	68.3	68.6	68.6	68.6	68.6	68.6	68.6	
59.1	65.8	66.6	68.0	68.6	68.9	69.3	69.3	69.3	69.5	69.8	69.8	69.8	69.8	69.8	69.8	
60.6	68.2	69.0	70.4	71.2	71.5	72.0	72.0	72.0	72.2	72.5	72.5	72.5	72.5	72.5	72.5	
64.1	72.2	73.4	75.1	76.1	76.4	77.0	77.1	77.5	77.9	78.2	78.2	78.2	78.2	78.2	78.2	
64.7	73.5	74.9	76.7	77.8	78.4	79.3	79.4	79.7	80.2	80.6	80.4	80.6	80.6	80.6	80.6	
65.7	74.5	76.1	77.9	79.0	79.6	80.5	80.6	80.9	81.3	81.8	81.8	81.8	81.8	81.8	81.8	
67.3	76.3	78.1	80.3	81.3	82.2	83.4	83.5	83.8	84.4	84.8	84.8	84.8	84.8	84.8	84.8	
67.9	77.1	79.0	81.2	82.3	83.4	84.6	85.0	85.3	85.9	86.3	86.3	86.3	86.3	86.3	86.3	
69.3	79.1	81.0	83.5	84.6	85.7	86.8	87.8	88.3	89.0	89.4	89.4	89.4	89.4	89.4	89.4	
69.4	79.3	81.7	84.5	85.8	87.3	88.5	89.4	90.0	90.6	91.0	91.0	91.0	91.0	91.0	91.0	
69.5	79.5	81.9	84.7	86.0	87.6	88.8	89.8	90.3	90.9	91.4	91.4	91.4	91.4	91.4	91.4	
69.6	79.6	82.1	85.0	86.4	88.0	89.5	90.5	91.0	91.7	92.1	92.1	92.1	92.1	92.1	92.1	
69.6	79.9	83.0	86.5	87.9	89.5	91.0	92.1	92.7	93.5	94.0	94.0	94.0	94.0	94.0	94.0	
69.6	79.9	83.0	86.6	88.2	90.0	91.7	92.9	93.4	94.6	95.4	95.4	95.4	95.4	95.4	95.4	
69.6	80.0	83.3	87.1	89.0	90.7	93.1	94.3	94.9	96.4	97.3	97.3	97.3	97.3	97.3	97.3	
69.6	80.0	83.4	87.2	89.4	91.2	94.0	95.3	96.2	97.7	98.6	98.6	98.6	98.6	98.6	98.6	
69.6	80.0	83.4	87.2	89.4	91.2	94.0	95.3	96.2	97.7	98.9	98.9	98.9	99.2	99.2	99.2	
69.6	80.0	83.4	87.2	89.4	91.2	94.0	95.3	96.2	97.7	98.9	99.0	99.0	99.4	99.7	100.0	
69.6	80.0	83.4	87.2	89.4	91.2	94.0	95.3	96.2	97.7	98.9	99.0	99.0	99.4	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS 2100-2300

39.2	41.1	41.6	42.1	42.1	42.2	42.4	42.4	42.5	42.6	42.6	42.6	42.7	42.7	42.7	42.7	
41.3	43.5	44.0	44.6	44.7	44.8	45.0	45.0	45.1	45.2	45.4	45.4	45.5	45.5	45.5	45.5	
41.5	43.7	44.2	44.8	44.9	45.0	45.2	45.2	45.3	45.4	45.6	45.6	45.7	45.7	45.7	45.7	
41.5	43.7	44.2	44.8	44.9	45.0	45.2	45.2	45.3	45.4	45.6	45.6	45.7	45.7	45.7	45.7	
42.4	44.6	45.1	45.6	45.7	45.8	46.1	46.1	46.2	46.3	46.5	46.5	46.6	46.6	46.6	46.6	
43.8	46.0	46.5	47.0	47.1	47.2	47.5	47.5	47.6	47.7	47.9	47.9	48.0	48.0	48.0	48.0	
49.3	52.0	52.6	53.2	53.3	53.4	53.6	53.6	53.7	53.9	54.2	54.2	54.3	54.3	54.3	54.3	
49.8	52.9	53.5	54.0	54.2	54.3	54.5	54.5	54.6	54.8	55.0	55.0	55.1	55.1	55.1	55.1	
52.4	55.4	56.1	56.6	56.7	56.9	57.1	57.1	57.2	57.4	57.6	57.6	57.7	57.7	57.7	57.7	
53.4	56.6	57.3	57.8	57.9	58.0	58.3	58.3	58.4	58.7	58.9	58.9	59.0	59.0	59.0	59.0	
55.2	58.7	59.4	60.0	60.1	60.2	60.4	60.4	60.5	60.8	61.1	61.1	61.2	61.2	61.2	61.2	
57.3	60.9	61.7	62.6	62.8	62.9	63.1	63.1	63.2	63.5	63.8	63.8	63.9	63.9	63.9	63.9	
57.4	61.4	62.1	63.0	63.2	63.3	63.5	63.5	63.6	64.0	64.2	64.2	64.3	64.3	64.3	64.3	
59.3	63.6	64.7	66.0	66.5	66.6	66.8	66.8	66.9	67.2	67.4	67.4	67.5	67.5	67.5	67.5	
60.0	64.5	65.7	67.0	67.4	67.5	67.7	67.7	67.9	68.2	68.4	68.4	68.5	68.5	68.5	68.5	
62.0	67.1	68.7	70.3	70.9	71.0	71.2	71.2	71.3	71.7	72.0	72.0	72.1	72.1	72.1	72.1	
64.7	70.4	72.4	74.4	75.0	75.2	75.4	75.5	75.9	76.5	76.7	76.7	76.8	76.8	76.8	76.8	
65.6	72.1	74.5	76.6	77.1	77.7	78.0	78.1	78.5	79.1	79.3	79.3	79.4	79.4	79.4	79.4	
66.2	72.9	75.5	77.6	78.1	78.6	79.0	79.1	79.5	80.0	80.3	80.3	80.4	80.4	80.4	80.4	
68.5	75.3	78.1	80.2	80.8	81.4	82.1	82.2	82.7	83.3	83.5	83.5	83.6	83.6	83.6	83.6	
69.8	76.9	79.7	81.8	82.8	83.5	84.3	84.6	85.1	85.7	85.9	85.9	86.0	86.0	86.0	86.0	
70.8	78.4	81.2	83.3	84.4	85.0	86.1	86.4	86.9	87.6	87.9	87.9	88.0	88.0	88.0	88.0	
71.3	79.3	82.1	84.3	85.5	86.3	87.6	87.9	88.5	89.1	89.4	89.4	89.5	89.5	89.5	89.5	
71.7	80.2	83.4	85.5	86.9	87.7	89.0	89.3	89.9	90.5	90.8	90.8	90.9	90.9	90.9	90.9	
72.1	80.5	83.7	86.2	87.9	88.8	90.2	90.5	91.0	91.7	92.0	92.0	92.1	92.1	92.1	92.1	
72.1	80.9	84.4	86.8	88.6	89.5	90.9	91.6	92.1	92.8	93.1	93.1	93.2	93.2	93.2	93.2	
72.1	80.9	84.4	87.1	89.0	90.0	91.4	92.1	92.7	93.6	94.0	94.0	94.1	94.1	94.1	94.1	
72.1	80.9	84.7	87.5	89.9	90.9	92.6	93.5	94.2	95.7	96.0	96.0	96.2	96.2	96.2	96.2	
72.1	80.9	84.8	87.9	90.5	91.6	93.3	94.4	95.4	97.4	97.7	97.7	98.4	98.4	98.4	98.4	
72.1	80.9	84.8	87.9	90.5	91.6	93.3	94.4	95.5	97.6	98.0	98.0	98.7	99.0	99.1	99.1	
72.1	80.9	84.8	87.9	90.5	91.6	93.3	94.5	95.6	97.8	98.2	98.3	99.0	99.5	99.9	100.0	
72.1	80.9	84.8	87.9	90.5	91.6	93.3	94.5	95.6	97.8	98.2	98.3	99.0	99.5	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

40.0	42.5	43.0	43.4	43.8	43.9	44.0	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.3	44.3	
43.0	46.0	46.5	46.9	47.3	47.5	47.6	47.6	47.7	47.8	47.9	47.9	47.9	47.9	47.9	47.9	
43.3	46.2	46.7	47.1	47.6	47.7	47.8	47.9	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.2	
43.3	46.2	46.7	47.2	47.6	47.7	47.9	47.9	48.0	48.0	48.2	48.2	48.2	48.2	48.2	48.2	
43.9	46.9	47.4	47.8	48.3	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.9	
45.0	48.0	48.6	49.0	49.5	49.6	49.7	49.8	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	
49.0	52.5	53.1	53.6	54.1	54.2	54.4	54.4	54.5	54.7	54.8	54.8	54.8	54.8	54.8	54.8	
49.7	53.3	54.0	54.5	55.0	55.1	55.3	55.3	55.4	55.5	55.7	55.7	55.7	55.7	55.7	55.7	
52.0	56.0	56.7	57.3	57.8	58.0	58.2	58.2	58.3	58.5	58.6	58.7	58.7	58.7	58.7	58.7	
53.2	57.5	58.2	58.8	59.4	59.6	59.8	59.9	60.0	60.2	60.3	60.3	60.3	60.3	60.3	60.4	
54.6	59.4	60.2	60.9	61.6	61.8	62.1	62.2	62.3	62.5	62.6	62.6	62.7	62.7	62.7	62.7	
56.7	61.9	63.0	63.9	64.7	64.9	65.3	65.4	65.5	65.7	65.9	65.9	65.9	65.9	65.9	66.0	
57.0	62.5	63.6	64.4	65.3	65.5	65.9	66.0	66.1	66.3	66.4	66.5	66.5	66.5	66.5	66.5	
58.7	64.6	66.1	67.1	68.3	68.5	69.0	69.2	69.3	69.6	69.7	69.8	69.8	69.8	69.8	69.8	
59.4	65.6	67.1	68.2	69.4	69.7	70.2	70.3	70.4	70.8	70.9	70.9	71.0	71.0	71.0	71.0	
61.0	67.7	69.3	70.6	71.9	72.1	72.7	72.8	72.9	73.3	73.4	73.5	73.5	73.5	73.5	73.6	
62.7	70.0	71.9	73.5	75.0	75.3	75.9	76.1	76.3	76.8	76.9	77.0	77.0	77.0	77.0	77.0	
64.0	71.9	74.1	75.9	77.5	78.0	78.7	78.9	79.1	79.6	79.8	79.8	79.9	79.9	79.9	79.9	
64.4	72.5	74.8	76.6	78.2	78.7	79.4	79.7	79.9	80.4	80.6	80.6	80.7	80.7	80.7	80.7	
65.8	74.4	76.8	78.7	80.5	81.1	82.1	82.4	82.6	83.2	83.4	83.5	83.5	83.5	83.5	83.6	
66.4	76.0	78.5	80.5	82.5	83.1	84.3	84.6	85.0	85.7	86.0	86.0	86.1	86.1	86.1	86.1	
67.6	77.3	79.9	82.1	84.1	84.8	86.2	86.7	87.0	87.8	88.1	88.1	88.2	88.3	88.3	88.3	
67.9	77.8	80.5	83.0	85.1	85.9	87.4	88.0	88.3	89.1	89.4	89.4	89.6	89.7	89.7	89.7	
68.2	78.2	81.2	83.8	86.1	86.9	88.4	89.1	89.4	90.2	90.5	90.6	90.7	90.8	90.9	90.9	
68.3	78.5	81.6	84.4	87.0	87.8	89.5	90.2	90.6	91.5	91.8	91.8	92.1	92.2	92.2	92.3	
68.4	78.7	82.1	85.2	88.0	88.8	90.6	91.4	91.8	92.7	93.0	93.1	93.4	93.4	93.5	93.5	
68.5	78.8	82.2	85.5	88.5	89.4	91.3	92.3	92.7	93.8	94.2	94.2	94.6	94.6	94.7	94.8	
68.5	79.1	82.6	86.0	89.2	90.2	92.3	93.5	94.0	95.3	95.8	95.9	96.4	96.4	96.5	96.6	
68.5	79.1	82.7	86.1	89.4	90.5	92.8	94.2	95.0	96.7	97.5	97.5	98.0	98.1	98.2	98.3	
68.5	79.1	82.7	86.1	89.4	90.5	92.9	94.3	95.2	96.9	97.7	97.9	98.7	98.9	99.0	99.2	
68.5	79.1	82.7	86.1	89.4	90.5	92.9	94.4	95.2	97.0	97.8	98.1	98.8	99.0	99.5	99.9	
68.5	79.1	82.7	86.1	89.4	90.5	92.9	94.4	95.2	97.0	97.8	98.1	98.8	99.0	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 7434

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727575 GRAND FORKS AFB ND 73-82 ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ALL

50.6	52.8	53.2	53.4	53.7	53.8	53.9	53.9	54.0	54.0	54.1	54.1	54.1	54.1	54.2	54.2	
55.4	58.0	58.4	58.7	59.0	59.1	59.2	59.3	59.3	59.4	59.4	59.4	59.5	59.5	59.5	59.5	
55.7	58.2	58.7	58.9	59.3	59.4	59.5	59.6	59.6	59.7	59.7	59.7	59.8	59.8	59.8	59.8	
55.8	58.4	58.8	59.1	59.5	59.5	59.6	59.7	59.7	59.8	59.9	59.9	59.9	59.9	60.0	60.0	
56.7	59.3	59.8	60.0	60.4	60.4	60.6	60.6	60.7	60.8	60.8	60.8	60.8	60.9	60.9	60.9	
58.1	60.8	61.3	61.6	61.9	62.0	62.1	62.2	62.2	62.3	62.3	62.4	62.4	62.4	62.4	62.5	
61.6	64.6	65.2	65.5	65.9	65.9	66.1	66.1	66.2	66.3	66.3	66.3	66.4	66.4	66.4	66.4	
62.1	65.2	65.8	66.1	66.5	66.5	66.7	66.8	66.8	66.9	66.9	66.9	67.0	67.0	67.0	67.0	
64.5	67.9	68.5	68.8	69.3	69.3	69.5	69.6	69.6	69.7	69.8	69.8	69.8	69.8	69.9	69.9	
65.7	69.2	69.8	70.2	70.7	70.8	70.9	71.0	71.1	71.2	71.2	71.2	71.3	71.3	71.3	71.3	
66.9	70.6	71.3	71.7	72.2	72.3	72.5	72.6	72.6	72.7	72.8	72.8	72.8	72.8	72.9	72.9	
68.9	73.0	73.7	74.2	74.8	74.9	75.1	75.2	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.5	
69.5	73.6	74.4	74.9	75.5	75.6	75.8	75.9	76.0	76.1	76.1	76.1	76.2	76.2	76.2	76.2	
71.7	76.4	77.2	77.8	78.6	78.7	78.9	79.1	79.1	79.3	79.3	79.3	79.4	79.4	79.4	79.4	
72.7	77.5	78.4	79.0	79.8	79.9	80.2	80.4	80.4	80.5	80.6	80.6	80.7	80.7	80.7	80.7	
74.6	79.8	80.8	81.5	82.4	82.6	82.9	83.0	83.1	83.3	83.3	83.3	83.4	83.4	83.4	83.4	
76.2	81.7	82.9	83.6	84.6	84.8	85.2	85.4	85.5	85.7	85.7	85.7	85.8	85.8	85.9	85.9	
77.7	83.7	84.9	85.8	86.9	87.2	87.6	87.9	87.9	88.2	88.2	88.3	88.3	88.4	88.4	88.4	
78.1	84.1	85.4	86.3	87.4	87.7	88.2	88.4	88.5	88.7	88.8	88.8	88.9	88.9	88.9	88.9	
78.9	85.4	86.8	87.8	89.0	89.3	89.9	90.2	90.3	90.5	90.6	90.6	90.7	90.8	90.8	90.8	
79.8	86.6	88.2	89.2	90.5	90.9	91.6	91.9	92.0	92.3	92.4	92.5	92.6	92.6	92.6	92.6	
80.2	87.4	89.0	90.2	91.6	92.0	92.8	93.1	93.2	93.6	93.7	93.8	93.9	93.9	94.0	94.0	
80.4	87.8	89.5	90.7	92.2	92.6	93.4	93.9	94.0	94.4	94.5	94.5	94.7	94.7	94.8	94.8	
80.6	88.1	89.9	91.1	92.7	93.1	94.0	94.4	94.6	95.0	95.2	95.2	95.4	95.4	95.5	95.5	
80.7	88.3	90.2	91.5	93.2	93.6	94.5	95.0	95.2	95.7	95.9	95.9	96.1	96.1	96.2	96.2	
80.8	88.5	90.4	91.8	93.6	94.1	95.1	95.6	95.8	96.3	96.6	96.6	96.8	96.8	96.9	96.9	
80.8	88.7	90.7	92.1	94.0	94.6	95.6	96.3	96.5	97.1	97.3	97.4	97.6	97.7	97.8	97.8	
80.9	88.8	90.9	92.4	94.4	95.0	96.2	96.9	97.2	97.8	98.1	98.2	98.4	98.5	98.6	98.6	
80.9	88.8	90.9	92.4	94.5	95.1	96.4	97.2	97.5	98.2	98.6	98.7	99.0	99.1	99.2	99.2	
80.9	88.8	90.9	92.5	94.5	95.1	96.5	97.3	97.6	98.4	98.8	98.9	99.3	99.3	99.5	99.6	
80.9	88.8	90.9	92.5	94.5	95.1	96.5	97.3	97.6	98.4	98.8	98.9	99.3	99.4	99.7	99.9	
80.9	88.8	90.9	92.5	94.5	95.1	96.5	97.3	97.6	98.4	98.8	98.9	99.3	99.4	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 87633

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED, BROKEN, OVERCAST, & OBSCURED WERE USED AS INPUT FOR THE TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-81 JAN
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NUMBER OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	3-05	32.4			14.2						9.9	39.6	5.4	923
	6-08	32.6			13.9						12.7	41.4	5.7	921
	9-11	25.8			13.8						11.7	42.7	5.9	923
	12-14	14.5			22.9						12.2	42.4	6.7	922
	15-17	15.7			23.3						12.2	41.7	6.6	921
	18-20	15.			23.5						12.9	43.7	6.7	923
	21-23	22.9			21.5						15.7	43.1	6.1	925
	00-02	29.6			23.0						13.5	37.9	5.6	926
TOTALS		23.2			20.6						15.1	41.2	6.1	7379

USAFETAC FORM JUL 64 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 FEB
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
FEB	00-02	29.8			17.7						11.2	41.4	5.7	643
	03-05	28.9			16.7						15.1	39.3	5.8	645
	06-08	16.9			26.3						16.2	40.9	6.3	646
	09-11	9.5			25.3						18.3	45.9	7.3	643
	12-14	8.7			22.1						21.2	48.1	7.4	647
	15-17	8.6			24.4						21.1	45.9	7.2	639
	18-20	13.5			31.3						16.7	39.5	6.3	644
	21-23	27.2			20.5						11.7	40.6	5.7	645
TOTALS		17.9			23.1						16.4	42.7	6.4	6745

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 MAR
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NUMBER OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAR	00-02	26.6			17.3						13.1	42.0	5.8	929
	03-05	25.2			17.3						14.2	43.3	5.1	929
	06-08	13.4			26.2						16.3	44.2	6.7	928
	09-11	9.6			26.1						17.2	47.1	7.0	927
	12-14	8.5			24.3						19.9	47.3	7.2	929
	15-17	7.2			24.4						22.2	46.2	7.3	930
	18-20	8.9			32.2						18.9	40.0	6.7	930
	21-23	25.0			25.5						14.2	35.3	5.6	929
TOTALS		15.8			24.2						16.9	43.2	6.6	7431

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 APR

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	31.8			21.1						12.7	34.5	[illegible]	893
	03-05	27.9			23.6						11.5	37.[illegible]	[illegible].4	893
	06-08	15.4			25.1						20.5	39.0	6.5	894
	09-11	13.0			24.2						19.6	43.2	6.8	898
	12-14	10.2			23.4						22.9	43.4	7.1	900
	15-17	7.9			23.4						24.0	39.7	7.0	895
	18-20	6.6			34.8						22.6	36.[illegible]	[illegible].7	899
	21-23	24.8			26.6						14.0	34.7	5.5	900
TOTALS		17.2			25.9						18.5	36.4	6.3	7172

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 MAY
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	27.7			26.4						16.8	29.1	[illegible].2	928
	03-05	18.4			31.4						16.3	32.[illegible]	5.8	925
	06-08	11.4			28.2						25.3	35.1	6.6	924
	09-11	9.1			25.5						24.1	38.4	6.9	927
	12-14	6.6			25.6						30.1	37.8	7.3	927
	15-17	4.5			24.4						36.2	34.8	7.5	927
	18-20	5.9			29.6						32.8	31.7	7.0	927
	21-23	15.[illegible]			35.2						22.4	27.1	5.8	927
	TOTALS	12.4			28.7						25.8	33.3	6.5	7412

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 JUN

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	24.6			36.0						16.9	22.6	4.9	930
	03-05	13.3			37.7						24.3	25.1	5.8	930
	06-08	8.7			32.5						28.0	30.8	5.6	899
	09-11	7.2			33.6						28.1	31.0	5.6	899
	12-14	4.3			35.6						33.0	27.1	5.7	899
	15-17	3.1			37.8						33.2	25.9	5.7	930
	18-20	5.0			43.0						29.8	22.2	5.7	930
	21-23	9.2			46.8						23.2	20.8	5.6	930
TOTALS		9.4			37.8						27.1	25.7	6.1	7197

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 JUL
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	37.0			33.0						13.7	16.3	3.9	927
	03-05	25.2			38.4						17.9	18.5	4.6	926
	06-08	16.8			36.5						23.9	22.8	5.5	925
	09-11	13.8			35.3						30.9	20.0	5.8	929
	12-14	7.8			42.6						32.3	17.3	5.9	931
	15-17	8.6			43.7						31.7	16.0	5.8	930
	18-20	11.0			46.8						29.4	12.9	5.3	930
	21-23	19.1			47.5						21.1	12.4	4.6	929
TOTALS		17.4			41.5						25.1	17.0	5.2	7426

USAFETAC FORM JUL 64 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 AUG

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02	34.3			33.6						15.1	17.1	4.1	921
	03-05	24.9			34.7						18.2	22.2	4.9	924
	06-08	11.2			35.1						28.2	25.5	6.1	919
	09-11	10.1			36.2						26.0	27.6	6.2	927
	12-14	7.2			37.5						30.4	24.9	6.3	928
	15-17	7.1			41.6						28.9	22.4	6.1	926
	18-20	7.9			44.5						28.7	18.9	5.8	924
	21-23	18.7			44.1						21.0	16.2	4.8	922
TOTALS		15.2			38.4						24.6	21.8	5.5	7391

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 SEP

STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN	TOTAL NUMBER OF
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	41.3			23.9						12.6	22.6	4.1	698
	03-05	38.2			24.7						13.8	23.4	4.3	899
	06-08	15.3			33.2						23.2	28.3	5.9	897
	09-11	14.8			30.3						22.8	32.1	6.2	900
	12-14	10.6			32.9						24.9	31.7	6.4	900
	15-17	9.9			37.3						23.6	29.2	6.2	900
	18-20	13.0			40.9						21.7	24.4	5.6	900
	21-23	31.4			32.5						12.2	23.8	4.5	898
TOTALS		21.6			31.9						19.4	26.9	5.4	7192

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 OCT
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF TOTAL SKY COVER	TOTAL NUMBER OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
OCT	00-02	29.5			21.3						10.4	38.8	5.5	929
	03-05	29.1			22.4						13.4	35.1	5.4	927
	06-08	13.3			31.3						23.2	35.2	6.3	92[illegible]
	09-11	7.3			27.5						27.5	37.7	7.1	928
	12-14	6.4			28.2						27.8	37.6	7.1	927
	15-17	8.7			24.2						28.6	38.4	7.1	929
	18-20	12.7			27.1						24.2	36.0	6.6	93[illegible]
	21-23	24.5			19.5						16.0	40.0	6.[illegible]	93[illegible]
TOTALS		16.4			25.2						21.[illegible]	37.4	6.4	7421

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 NOV
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
NOV	00-02	25.3			17.8						11.9	45.4	5.1	899
	03-05	25.1			17.5						12.4	44.9	5.1	897
	06-08	16.1			22.2						17.2	44.5	5.7	897
	09-11	8.2			23.6						20.8	47.3	7.3	898
	12-14	10.3			25.2						16.3	48.1	7.0	900
	15-17	7.8			27.8						21.5	43.9	7.1	899
	18-20	12.8			28.6						16.9	41.9	6.6	900
	21-23	21.7			19.4						13.6	45.2	6.3	899
TOTALS		15.9			22.8						16.3	45.7	6.7	7189

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 73-82 DEC
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
DEC	00-02	24.3			14.9						12.9	47.9	5.4	927
	03-05	24.0			16.1						11.0	48.9	5.4	93
	06-08	15.7			21.6						14.4	47.3	5.7	93
	09-11	17.3			21.6						19.6	48.1	7.2	93
	12-14	12.1			19.3						19.1	49.5	7.2	927
	15-17	15.2			22.2						19.5	48.1	7.2	927
	18-20	14.7			23.5						12.6	49.2	6.8	924
	21-23	24.0			12.2						14.7	49.8	6.6	924
TOTALS		17.1			19.0						15.4	48.6	6.8	7419

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727575 GRAND FORKS AFB ND 77-82 ALL
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L S T)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NUMBER OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	23.2			27.6						25.1	24.2	5.1	7379
FEB		17.9			23.1						16.4	42.7	5.4	6749
MAR		15.8			24.2						16.9	43.2	5.6	7431
APR		17.2			25.9						15.5	38.4	5.3	7172
MAY		12.4			26.7						25.8	33.3	5.5	7410
JUN		9.4			37.8						17.1	25.7	5.1	7197
JUL		17.4			40.5						25.1	17.	5.2	7426
AUG		15.2			36.4						24.6	21.8	5.5	7391
SEP		21.8			31.9						19.4	26.9	5.4	7192
OCT		16.4			25.2						21.0	37.4	5.4	7427
NOV		15.9			22.8						16.3	45.1	6.7	7189
DEC		17.0			20.0						15.4	48.6	5.8	7419
TOTALS		16.6			28.2						20.1	35.1	5.2	87373

USAFETAC FORM JUL 64 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

   a. Daily maximum temperatures
   b. Daily minimum temperatures
   c. Daily mean temperatures

   NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

   a. Extreme maximum temperature
   b. Extreme minimum temperature

   NOTE: The following symbols are used in the extreme data blocks:

   (1) * indicates the extreme was selected from a month with one or more days missing.

   (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Means for years and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), means ($\bar{X}$), and standard deviations (σx). The number of observations used in the computation for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature data was not reported prior to 1948. Relative humidity data was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

727575 GRAND FORKS AFB ND 59-82
STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
≥100					.1		.1	.7	.1				.1
≥ 95				.1	.4	.7	2.4	3.2	1.0				.7
≥ 90					1.4	4.6	10.4	13.5	3.1				2.8
≥ 85				.6	6.3	13.5	25.9	27.1	8.1	.5			6.8
≥ 80				1.7	13.6	29.0	56.2	47.1	16.0	2.4			13.9
≥ 75			.1	3.6	24.5	51.4	80.4	67.9	27.6	5.6			21.6
≥ 70			.4	6.7	40.3	72.0	94.2	86.3	42.1	11.8	.4		29.5
≥ 65			.8	14.5	55.7	88.7	99.2	94.8	58.6	21.5	1.1		36.2
≥ 60			2.4	24.3	71.0	97.0	99.9	98.9	74.6	34.1	2.9		42.1
≥ 55		.2	4.3	37.0	82.3	99.4	100.0	100.0	88.2	51.7	6.4	.1	47.6
≥ 50			7.6	50.4	90.3	99.9			95.6	66.1	12.5	.7	52.1
≥ 45	.1	1.4	13.2	64.8	96.6	100.0			98.5	80.9	20.1	2.0	56.6
≥ 40	2.2	4.5	22.4	75.9	98.9				100.0	90.6	33.3	4.8	61.5
≥ 35	7.0	11.9	40.0	88.8	99.6					96.6	48.1	12.4	67.2
≥ 30	14.0	22.8	57.8	95.7	99.9					99.6	69.2	25.5	73.9
≥ 25	22.3	35.6	71.2	98.4	100.0					100.0	81.9	40.3	79.3
≥ 20	29.8	47.5	81.1	99.7							89.6	51.5	83.4
≥ 15	39.6	57.8	88.5	100.0							94.4	64.8	87.2
≥ 10	49.6	68.8	95.1								97.6	75.8	90.7
≥ 5	61.1	81.1	99.2								99.3	84.7	93.8
≥ 0	73.2	89.1	99.7								99.7	91.1	96.1
≥ -5	84.4	95.0	100.0								100.0	96.8	98.0
≥ -10	92.8	98.1										98.8	99.2
≥ -15	97.9	99.7										99.9	99.8
≥ -20	99.6	99.8										100.0	100.0
≥ -25	100.0	100.0											100.0
MEAN	10.7	17.6	31.2	50.0	65.9	74.8	80.4	77.0	67.7	55.0	34.7	19.5	48.9
S D	15.017	14.342	12.839	13.064	11.975	8.543	6.923	8.781	11.337	11.718	12.383	13.462	26.955
TOTAL OBS	712	640	713	690	713	690	713	713	706	744	720	744	8496

USAFETAC FORM 0-21 5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 59-82 (YEARS)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
75						.1		.1					.0
70						.4	1.3	1.0					.2
65					.6	4.2	11.1	6.3	1.6				2.0
60					3.4	16.4	38.7	24.8	4.7	.3			7.4
55				.3	9.5	40.7	67.7	52.0	13.3	.8			15.4
50				1.0	22.4	65.5	88.9	77.8	28.0	3.8			23.9
45				4.2	41.7	85.7	98.0	91.9	53.1	13.7	.4		32.1
40			.4	13.5	62.4	96.5	99.9	98.5	74.4	29.2	2.1		39.0
35	.1		2.4	32.8	79.8	99.6	100.0	99.3	92.2	51.1	5.8	.1	47.3
33	.4	.3	6.5	42.6	86.8	99.7		100.0	95.2	60.5	9.4	.4	53.3
30	.7	1.7	15.4	60.9	94.0	99.9			97.0	73.9	17.8	1.5	55.4
25	1.4	5.2	29.9	80.6	98.2	100.0			99.3	90.1	37.1	6.7	62.6
20	5.3	10.6	40.5	91.3	99.7				100.0	96.5	54.7	14.2	68.3
15	9.7	17.8	51.3	95.8	99.9					98.8	70.1	25.7	72.7
10	16.2	26.0	63.0	98.1						99.7	79.7	38.2	77.1
5	22.9	36.7	72.9	98.8						100.0	88.2	47.7	83.8
0	31.9	50.2	82.6	99.7	100.0						93.3	58.6	84.9
-5	44.1	63.0	91.4	100.0							96.9	70.7	89.-
-10	56.9	75.9	96.1								99.2	81.7	92.6
-15	70.6	86.4	98.3								99.4	90.7	95.5
-20	85.7	93.9	99.7								99.7	96.2	98.3
-25	93.4	97.7	99.9								100.0	98.8	99.2
-30	98.6	99.4										99.9	99.8
-35	100.0	99.8	100.0									100.0	100.0
-40		100.0											100.0
MEAN	-6.2	.2	14.2	30.9	42.6	52.4	57.3	54.6	45.2	34.8	19.2	3.5	29.0
S D	13.913	14.144	13.766	6.530	9.009	7.202	6.035	6.927	8.243	8.429	11.541	14.014	23.815
TOTAL OBS	712	642	713	690	713	690	713	713	706	744	720	744	8498

USAFETAC FORM 0-21-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

727575 GRAND FORKS AFB ND 59-82
STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.1	.7					.1
80					.6	.9	3.5	3.1	.8				.7
75					1.3	7.5	17.8	15.1	3.4				3.6
70				.1	6.0	22.0	46.0	38.4	8.5	.5			10.1
65				.9	15.0	43.0	78.0	63.0	18.4	2.0			18.4
60				2.8	30.4	72.8	95.1	84.9	34.3	5.8			27.1
55			.4	8.0	50.2	93.0	99.4	96.6	57.4	15.9	.4		35.1
50			1.1	18.6	69.0	98.0	100.0	99.6	78.6	31.6	2.1		41.6
45			3.2	33.9	84.6	99.6		100.0	91.9	52.8	5.4		47.7
40		.5	9.1	56.8	95.0	100.0			98.4	73.3	13.3	.3	54.0
35	.6	2.0	18.9	74.5	98.7				99.9	87.6	24.6	2.3	59.0
30	2.7	7.3	34.8	87.7	99.6				100.0	95.7	43.7	8.3	65.2
25	6.9	15.3	47.0	94.8	99.7					98.8	63.7	19.0	73.7
20	14.3	25.8	61.3	98.0	99.9					100.0	77.1	32.3	75.9
15	23.6	36.6	73.5	99.1	100.0						86.2	45.7	80.6
10	31.2	48.4	82.7	99.9							92.5	56.2	84.4
5	41.4	61.3	91.4	100.0							96.9	67.3	88.3
0	52.7	73.1	95.9								98.6	79.3	91.7
-5	64.7	83.8	99.4								99.4	88.3	94.7
-10	78.7	92.7	99.9								99.9	94.9	97.2
-15	90.2	96.7	100.0								100.0	98.1	98.8
-20	96.8	98.9										99.5	99.6
-25	99.6	99.8										100.0	100.0
-30	100.0	100.0											100.0
MEAN	2.3	9.1	22.9	40.7	54.5	63.8	69.1	67.0	56.6	45.2	27.2	11.6	39.2
S D	14.211	13.759	12.765	9.936	9.548	7.010	5.673	6.992	8.831	9.095	1.330	3.349	25.145
TOTAL OBS	712	648	713	690	713	690	713	713	706	744	720	744	8498

USAFETAC FORM 0-21 5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

727575 STATION — GRAND FORKS AFB ND STATION NAME — 59-82 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59										* 78	73	43	43	
60		35	40	46	70	88	87	98	95	95	85	53	41	98
61	-	43	40	64	71	85	97	95	102	87	84	62	31	102
62		40	40	36	78	79	88	85	92	86	79	53	32	92
63	-	42	56	79	80	87	94	96	93	90	85	61	41	96
64		41	42	54	74	100	91	96	95	81	80	63	32	100
65	-	32	40	40	76	85	83	87	98	70	74	69	46	98
66		16	35	54	64	88	90	88	90	87	81	42	37	90
67	-	36	38	70	61	86	86	92	94	87	78	58	49	94
68		42	39	62	83	86	97	88	92	87	76	53	39	97
69	-	30*	30	35	69	94	78	96	96	91	66	56	57	96
70		31	39	37	68	92	99	97	95	96	85	54	34	99
71	-	38	41	54	75	82	85	89	94	92	68	46	33	94
72		41	37	51	64	90	93	90	96	81	72	50	37	96
73	-	44	43	59	75	83	92	95	95	79	74	55	35	95
74		28	38	40	78	78	92	96	91	89	80	55	49	96
75	*	37	37	52	59	82	85	99	89	84	88	74	38	99
76		37	47	50	75	87	91	94	101	97	84	61	42	101
77	-	33	47	62	86	88	89	94	84	73	75	59	34	94
78		30	32	57	72	85	88	96	100	101	76	71	36	101
79	-	23	24	35	60	85	92	90	89	94	69	52	50	94
80		41	32	49	99	97	93	101	93	93	82	61	46	101
81	-	46	48	65	82	85	81	96	93	90	68	65	38	96
82	-	33	43	46	84	82	82	89	93	91	71	52	51	93
MEAN		35.6	39.9	52.1	74.0	86.7	89.2	93.3	93.9	88.1	77.2	57.0	41.3	96.5
S D		7.359	6.465	11.842	9.463	5.269	5.452	4.281	4.367	7.051	6.331	8.113	7.188	3.296
TOTAL OBS		712	640	713	690	713	690	713	713	706	744	720	744	8498

NOTES * (BASED ON LESS THAN FULL MONTHS)

(AT LEAST ONE DAY LESS THAN 24 OBS)

USAF ETAC FORM AA 64 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

727575 STATION | GRAND FORKS AFB ND STATION NAME | 59-82 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59									* 25	15	-6	5	
60	-21	-20	-17	14	21	39	45	44	32	22	-7	-22	-22
61	-27	-19	11	11	24	43	46	47	26	16	0	-21	-27
62	-30	-28	-31	11	26	37	44	44	29	16	12	-18	-31
63	-28	-20	-4	16	28	39	49	39	34	25	-4	-30	-30
64	-25	-19	-18	12	29	27	48	33	24	21	-22	-25	-25
65	-33	-21	-15	26	26	41	42	33	25	23	-2	-11	-33
66	-33	-32	-13	22	22	37	51	44	31	17	-8	-21	-33
67	-28	-36	-21	9	2	36	39	33	24	15	-1	-35	-36
68	-35	-18	-3	18	21	43	41	34	35	25	5	-23	-35
69	-28*	-24	-13	7	28	35	46	43	32	17	0	-14	-28
70	-34	-27	-13	0	29	45	49	41	28	21	-7	-26	-34
71	-20	-21	4	15	32	43	44	42	35	22	5	-13	-29
72	-31	-21	-20	12	31	43	44	40	34	13	-2	-19	-31
73	-26	-14	22	18	28	39	42	44	23	29	6	-25	-26
74	-27	-25	-17	12	30	44	48	42	25	24	9	-1	-27
75 *	-15	-17	-11	-3	31	41	45	44	37	26	-4	-18	-18
76	-20	-11	-10	23	20	38	45	44	24	7	-12	-28	-28
77	-30	-19	-2	17	29	44	45	40	35	21	-17	-29	-30
78	-28	-24	-16	20	30	38	44	41	38	23	-9	-16	-25
79	-25	-29	-15	-1	28	43	47	36	34	17	6	-9	-29
80	-18	-17	-16	21	27	35	47	45	29	19	11	-14	-18
81	-12	-18	4	16	24	44	46	44	31	18	15	-12	-19
82	-27	-23	-3	8	27	35	51	34	34	24	-2	-3	-27
MEAN	-26.9	-21.8	-9.2	13.2	25.8	39.3	45.6	40.5	30.3	19.8	-1.4	-17.8	-28.2
S D	5.462	5.871	11.658	7.568	6.278	4.147	3.312	4.450	4.828	4.931	9.055	9.623	4.929
TOTAL OBS	713	640	713	690	713	690	713	713	706	744	720	744	8498

NOTES * (BASED ON LESS THAN FULL MONTHS)

(AT LEAST ONE DAY LESS THAN 24 OBS)

USAF ETAC FORM AM 64 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PAGE 1 0000-0200 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
40/ 39			.2															2	2		
38/ 37		.1	.1															2	2		
36/ 35		.1	.1															2	2	5	
34/ 33			.1															1	1		1
32/ 31		.4	.1															5	5	1	1
30/ 29	.5	1.1	.1															16	16	14	7
28/ 27	1.0	1.9	.1															28	28	23	14
26/ 25	.2	2.0	.2															23	23	17	16
24/ 23	.6	1.1																16	16	31	8
22/ 21	1.5	2.0																33	33	29	23
20/ 19	2.5	3.2																53	53	40	35
18/ 17	.8	2.4																29	29	35	32
16/ 15	.3	3.1																32	32	34	28
14/ 13	.3	2.7																28	28	21	23
12/ 11	1.2	1.5																25	25	37	33
10/ 9	.6	1.6																21	21	20	36
8/ 7	1.0	2.8																35	35	29	17
6/ 5	1.4	2.5																36	36	44	23
4/ 3	2.2	2.5																43	43	40	25
2/ 1	1.4	4.6																56	56	42	33
0/ -1	4.2	1.8																56	56	64	39
-2/ -3	2.2	2.2																40	40	48	33
-4/ -5	2.3	.9																29	29	31	28
-6/ -7	3.0	.6																34	34	34	29
-8/ -9	4.7																	44	44	50	29
-10/-11	5.0																	46	46	46	37
-12/-13	3.0																	28	28	28	22
-14/-15	3.8																	35	35	35	40
-16/-17	2.6																	24	24	24	24
-18/-19	4.6																	43	43	43	37
-20/-21	3.7																	34	34	34	35
-22/-23	1.1																	10	10	10	37
-24/-25	1.5																	14	14	14	38
-26/-27	.4																	4	4	4	29

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

 0000-0200 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-28/-29																					38
-30/-31																					31
-32/-33																					27
-34/-35																					12
-36/-37																					7
-38/-39																					3
TOTAL	57.	64	1.3	1.1														927		927	
																	927		927		

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4713261	64581	69.7	15.206	927							
Dry Bulb	212922	2188	2.4	14.979	927	44.2	92.3					93
Wet Bulb	199996	1704	1.8	14.581	927	46.7	92.5					93
Dew Point	320773	-5111	-5.5	17.776	927	57.7	92.9					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PAGE 1 0300-0500 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
38/ 37			.1															1	1		
36/ 35		.4																4	4		
34/ 33		.2																2	2	5	
32/ 31		.4																4	4	2	3
30/ 29	.4	.8																11	11	8	7
28/ 27	.9	1.4	.1															22	22	21	6
26/ 25	.4	2.0																23	23	13	15
24/ 23	.5	1.3																17	17	33	11
22/ 21	.9	1.5																22	22	20	31
20/ 19	2.2	2.3																41	41	31	13
18/ 17	1.4	2.8																39	39	36	29
16/ 15	1.1	3.3																41	41	39	33
14/ 13	.2	2.4																24	24	26	30
12/ 11	1.5	2.2																34	34	37	20
10/ 9	1.6	2.0																34	34	36	35
8/ 7	1.4	1.7																29	29	29	35
6/ 5	1.6	2.5																38	38	44	31
4/ 3	1.6	2.4																37	37	33	21
2/ 1	1.5	4.5																56	56	42	26
0/ -1	3.4	1.7																48	48	56	38
-2/ -3	2.5	1.9																41	41	48	26
-4/ -5	3.4	.8																39	39	43	26
-6/ -7	2.4	.2																24	24	29	30
-8/ -9	4.8																	45	45	45	42
-10/-11	4.3																	40	40	40	33
-12/-13	2.5																	23	23	23	23
-14/-15	5.8																	54	54	54	35
-16/-17	3.5																	33	33	33	27
-18/-19	3.9																	36	36	36	39
-20/-21	2.5																	23	23	23	40
-22/-23	2.5																	23	23	23	30
-24/-25	1.3																	12	12	12	34
-26/-27	1.1																	10	10	10	37
-28/-29																					26

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dew Point
-30/-31																				20
-32/-33																				35
-34/-35																				18
-36/-37																				20
-38/-39																				5
TOTAL	61	138	7	2														930	930	930

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4731665	64745	69.6	15.536	930							
Dry Bulb	207459	1497	1.6	14.857	930	45.1	92.3					93
Wet Bulb	196464	1060	1.1	14.498	930	47.5	92.5					93
Dew Point	329562	-5828	-6.3	17.761	930	58.4	93.0					93

USAFETAC FORM 0-26-3 (OL-A) PREV. EDITION OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

 0600-0800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
36/ 35			.3	.1														4	4			
34/ 33		.1	.3															4	4	4		
32/ 31			.5															5	5	5	2	
30/ 29		.2	.9															10	10	6	5	
28/ 27		.4	1.1															14	14	13	10	
26/ 25		.2	1.5	.1														17	17	18	6	
24/ 23		1.1	1.4	.2														25	25	24	12	
22/ 21		1.3	1.0															21	21	29	21	
20/ 19		1.6	2.8	.2														43	43	24	27	
18/ 17		1.5	2.0															33	33	35	29	
16/ 15		1.0	1.9															27	27	35	26	
14/ 13		1.6	3.1															44	44	31	37	
12/ 11		1.2	2.0															30	30	39	22	
10/ 9		1.0	2.9															35	35	35	24	
8/ 7		1.2	2.6															35	35	32	26	
6/ 5		1.1	2.6															34	34	39	27	
4/ 3		1.3	2.5															35	35	40	31	
2/ 1		1.3	3.6															45	45	36	31	
0/ -1		3.0	.6															34	34	43	33	
-2/ -3		2.9	2.0															46	46	44	41	
-4/ -5		3.0	1.1															38	38	35	30	
-6/ -7		4.2	.9															47	47	53	21	
-8/ -9		3.6																33	34	37	26	
-10/-11		4.1																38	38	38	34	
-12/-13		2.2																20	20	20	21	
-14/-15		4.8																45	45	45	32	
-16/-17		5.1																47	47	47	24	
-18/-19		5.2																48	48	48	56	
-20/-21		1.7																16	16	16	34	
-22/-23		2.3																21	21	21	35	
-24/-25		2.3																21	21	21	30	
-26/-27		1.1																10	10	10	37	
-28/-29		.3																3	3	3	24	
-30/-31		.1																1	1	1	12	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	· 32 F	· 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AF3 ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PAGE 2 0600-0800

Temp. F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
-32/-33																			37
-34/-35																			42
-36/-37																			16
-38/-39																			7
-42/-43																			1
TOTAL	61	837	6		6													930	929
																		929	929

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 75 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4655803	64201	69.1	15.363	929							
Dry Bulb	210329	789	.8	15.023	930	46.9	92.2					93
Wet Bulb	199955	379	.4	14.673	929	48.3	92.6					93
Dew Point	345293	-6633	-7.1	17.918	929	59.4	93.0					93

USAFETAC FORM 0-26-3 OL-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JAN MONTH

PAGE 1 0900-1100

Temp °F	WET BULB TEMPERATURE DEPRESSION (°F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
40/ 39			.2															2	2			
38/ 37		.1	.2															3	3			
36/ 35		.2	.1															3	3	4		
34/ 33	.2	.3	.2															7	7	7	3	
32/ 31	.2	.3	.2															11	11	7	5	
30/ 29	.1	.9	.1															10	10	9	9	
28/ 27	.3	1.4	.2															18	18	14	8	
26/ 25	.2	1.6	.1															18	18	17	9	
24/ 23	.5	1.7	.1															22	22	25	15	
22/ 21	1.0	1.1	.2															21	21	29	13	
20/ 19	1.4	3.3																44	44	28	32	
18/ 17	1.3	2.6	.3	.1														40	40	41	27	
16/ 15	1.2	2.4																33	33	37	31	
14/ 13	.9	3.3																39	39	35	31	
12/ 11	.9	1.7																24	24	31	29	
10/ 9	1.0	3.2																39	39	37	31	
8/ 7	.5	2.																26	26	27	29	
6/ 5	.8	2.																26	26	33	19	
4/ 3	.8	4.1																45	45	41	25	
2/ 1	.8	3.6																40	40	41	30	
0/ -1	3.9	1.3																48	48	44	28	
-2/ -3	3.9	1.7																52	52	55	33	
-4/ -5	3.1	1.2																40	40	40	35	
-6/ -7	3.2	.4																34	34	39	33	
-8/ -9	4.5																	42	44	46	32	
-10/-11	4.5																	42	44	42	45	
-12/-13	2.7																	25	25	25	27	
-14/-15	4.8																	44	44	44	29	
-16/-17	3.5																	32	32	32	43	
-18/-19	4.9																	45	45	45	37	
-20/-21	2.5																	23	23	23	31	
-22/-23	1.4																	13	13	13	33	
-24/-25	1.1																	10	10	10	38	
-26/-27	.4																	4	4	4	31	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 92 F	Total
% Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 DATA ... PREVIOUS EDITION ... 8 DEC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

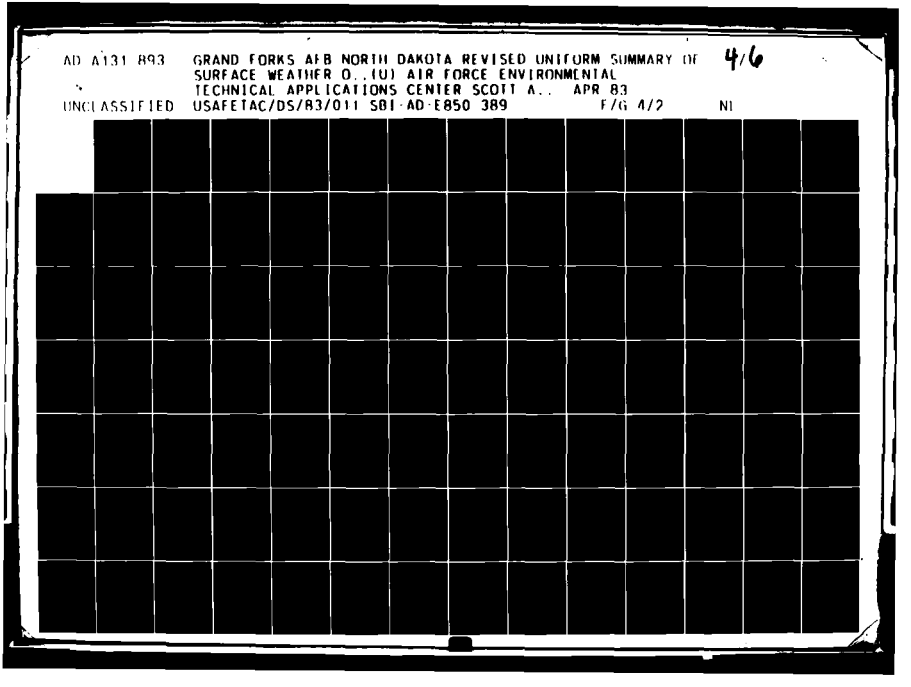
727575 GRAND FORKS AFB ND 73-82 JAN
STATION STATION NAME YEARS MONTH

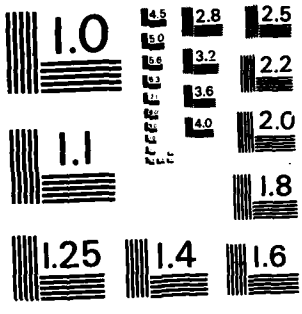
 0900-1100

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B.	W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
-28/-29	.1																	1		1	1	33
-30/-31																						26
-32/-33																						18
-34/-35																						23
-36/-37																						7
-38/-39																						3
-40/-41																						1
TOTAL	56	41	4	2	1	.1												926		930	926	926

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 82 F	≥ 91 F	Total
Rel Hum	4608633	63911	69.0	14.616	926							
Dry Bulb	213568	2102	2.3	14.993	930	45.9	91.5					93
Wet Bulb	198420	1622	1.8	14.541	926	46.5	91.9					93
Dew Point	315652	-5330	-5.8	17.552	926	58.3	92.7					93

USAFETAC FORM 0-8-3


AD A131 893 GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83
UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL
4/6



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

 1200-1400 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45			.1															1	1		
44/ 43			.1															1	1		
42/ 41				.2														2	2	1	
40/ 39			.5															5	5	1	
38/ 37		.5	.4															9	9	3	
36/ 35		.5	.3															8	8	10	1
34/ 33		.9	.4	.1														13	13	9	3
32/ 31		1.2	.4															15	15	14	12
30/ 29	.2	.5	.3															10	10	17	10
28/ 27	.9	1.7	.3															27	27	19	16
26/ 25	.3	2.2	.4	.1														28	28	23	22
24/ 23	1.1	2.3	.4	.1														36	36	34	15
22/ 21	.4	1.7	.2															22	22	34	19
20/ 19	1.3	3.3	.2															45	45	28	29
18/ 17	.9	2.5	.1															32	32	42	30
16/ 15	.8	2.7																32	32	35	26
14/ 13	.4	3.0	.1															33	33	25	40
12/ 11	.8	3.5																39	39	36	27
10/ 9	.6	3.9																42	42	50	35
8/ 7	.8	3.2																37	37	35	25
6/ 5	.2	3.6																35	35	40	29
4/ 3	.5	3.3																36	36	40	23
2/ 1	1.5	4.4																55	55	46	37
0/ -1	3.2	1.6																45	45	51	27
-2/ -3	1.8	2.8																43	43	46	34
-4/ -5	3.6	1.5																47	47	47	44
-6/ -7	2.7	1.3																37	37	40	30
-8/ -9	6.1																	57	57	66	38
-10/-11	4.5																	42	43	42	37
-12/-13	2.5																	23	23	23	20
-14/-15	3.1																	29	31	29	46
-16/-17	1.8																	17	17	17	45
-18/-19	2.0																	19	19	19	34
-20/-21	.5																	5	5	5	44

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

 1200-1400 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
-22/-23																					40
-24/-25																					35
-26/-27																					21
-28/-29																					18
-30/-31																					10
-32/-33																					4
-38/-39																					1
TOTAL	42.7	52.2	4.5	.5														930			927
																	927		927		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4506669	63277	68.3	18.225	927							
Dry Bulb	2330488	5878	6.3	13.523	930	36.7	89.1					93
Wet Bulb	206995	5125	5.5	13.890	927	38.6	90.6					93
Dew Point	261867	-1971	-2.1	16.681	927	53.0	92.6					93

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45				.2														2	2		
44/ 43			.1															1	1		
42/ 41			.6															6	6	2	
40/ 39		.1		.2														3	3	2	
38/ 37		.3	.2															5	5	6	
36/ 35		1.0	.3															12	12	4	4
34/ 33		1.2	.2															13	13	12	3
32/ 31		1.5	.5															19	19	21	13
30/ 29	.3	1.4	.5															21	21	14	19
28/ 27	.4	1.7																20	20	23	18
26/ 25	.5	2.4	.2															29	29	27	15
24/ 23	.8	2.2	.5															32	32	36	16
22/ 21	.5	1.5	.4															23	23	24	23
20/ 19	1.4	2.8	.2															41	41	36	31
18/ 17	1.3	3.1	.1															42	42	41	25
16/ 15	.4	3.5	.2															39	39	37	28
14/ 13	.4	3.4																36	36	34	45
12/ 11	.9	3.0																36	36	39	35
10/ 9	.5	3.4																37	37	36	23
8/ 7	.5	2.9																32	32	35	31
6/ 5	.3	2.6																27	27	36	24
4/ 3	.6	4.4																47	47	44	23
2/ 1	.9	5.3																57	57	52	37
0/ -1	4.1	1.5																52	52	60	29
-2/ -3	2.4	3.5																55	55	49	45
-4/ -5	2.9	1.5																41	41	45	43
-6/ -7	2.8	.8																33	33	40	36
-8/ -9	5.4																	52	52	58	28
-10/-11	5.7																	53	53	53	39
-12/-13	1.4																	13	13	13	21
-14/-15	2.6																	24	24	24	42
-16/-17	1.4																	15	15	15	46
-18/-19	.6																	6	6	6	46
-20/-21	.4																	4	4	4	43

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31				
-22/-23	.2																	2	2	2	28
-24/-25																					32
-26/-27																					18
-28/-29																					14
-30/-31																					5
-32/-33																					2
TOTAL	40.2	55.1	4.3	.4														930	930	930	930

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4609887	69183	69.0	13.932	930							
Dry Bulb	290769	6766	7.3	18.359	930	35.0	88.8					93
Wet Bulb	214550	5962	6.4	13.777	930	36.9	90.4					93
Dew Point	255698	-920	-1.0	16.561	930	51.7	92.3					93

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71 USAFETAC

669-052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
42/ 41				.2														2	2		
40/ 39			.1															1	1		
38/ 37		.1																1	1	1	
36/ 35	.2	.3	.2															7	7	6	1
34/ 33		1.2	.1															12	12	7	3
32/ 31	.1	1.2																12	12	17	8
30/ 29	.9	1.3																20	20	15	18
28/ 27	1.2	1.3	.2															25	25	20	18
26/ 25	.8	1.6																22	22	23	17
24/ 23	1.0	1.7																25	25	27	14
22/ 21	1.3	1.9																30	30	31	19
20/ 19	1.7	3.1																45	45	38	23
18/ 17	1.4	2.7																38	38	41	32
16/ 15	1.1	2.2																30	30	26	33
14/ 13	.6	2.5																29	29	30	38
12/ 11	.5	2.7																30	30	29	28
10/ 9	.9	2.4																30	30	31	24
8/ 7	1.0	3.2																39	39	31	31
6/ 5	.8	3.4																39	39	52	20
4/ 3	1.8	3.2																47	47	45	21
2/ 1	1.1	5.3																59	59	42	37
0/ -1	3.5	1.5																47	47	64	34
-2/ -3	1.7	1.4																29	29	39	37
-4/ -5	2.3	1.7																37	37	26	29
-6/ -7	5.2	.5																53	53	63	35
-8/ -9	4.6																	43	43	48	38
-10/-11	5.6																	52	52	52	37
-12/-13	2.7																	25	25	25	14
-14/-15	3.3																	31	31	31	36
-16/-17	2.7																	25	25	25	33
-18/-19	2.3																	21	21	21	51
-20/-21	1.4																	13	13	13	50
-22/-23	.6																	6	6	6	38
-24/-25	.3																	3	3	3	40

Element (X)	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

669-052

FORM 0-26-3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

 1800-2000 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27	.2																	2	2	2	22
-28/-29																					15
-30/-31																					12
-32/-33																					14
-34/-35																					7
-36/-37																					3
TOTAL	52.7	46.5	.6	.2														930			930
																	930			930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.	4801826	65400	70.3	14.772	930							
Dry Bulb	219186	4406	4.7	14.611	930	38.7	90.7					93
Wet Bulb	203876	3862	4.1	13.226	930	41.8	91.6					93
Dew Point	287387	-2813	-3.0	17.326	930	54.5	92.6					93

USAFETAC FORM 0-26-3 (OL A) JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

PAGE 1 | 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
40/ 39			.1															1	1		
38/ 37			.2															2	2		
36/ 35																				3	
34/ 33		.5																5	5		
32/ 31	.1	1.0																10	10	7	3
30/ 29	.9	1.8																21	21	19	7
28/ 27	1.1	1.2	.1															22	22	24	17
26/ 25	.5	2.5																28	28	16	25
24/ 23	1.4	.6																19	19	37	13
22/ 21	1.8	1.6																32	32	32	20
20/ 19	2.2	3.8																55	55	34	27
18/ 17	1.4	1.8																30	30	42	39
16/ 15	.8	1.8																24	24	25	31
14/ 13	.6	2.2																26	26	19	29
12/ 11	1.4	1.5																27	27	34	27
10/ 9	1.3	2.3																33	33	28	22
8/ 7	1.1	3.1																39	39	35	18
6/ 5	.5	2.3																26	26	35	25
4/ 3	1.0	3.0																37	37	34	27
2/ 1	2.7	4.5																67	67	63	29
0/ -1	5.0	1.1																56	56	63	35
-2/ -3	1.9	1.7																34	34	37	42
-4/ -5	2.2	1.3																32	32	27	35
-6/ -7	3.9	.8																43	43	48	41
-8/ -9	4.0																	37	37	44	32
-10/-11	5.5																	51	51	51	27
-12/-13	3.8																	35	35	35	21
-14/-15	4.0																	37	37	37	30
-16/-17	3.2																	30	30	30	18
-18/-19	1.9																	18	18	18	46
-20/-21	2.4																	22	22	22	36
-22/-23	1.5																	14	14	14	49
-24/-25	1.1																	10	10	10	38
-26/-27	.5																	5	5	5	41

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 3 OL A (JLN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

PAGE 2 2100-2300 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
-28/-29	.1																	1	1	1	27
-30/-31																					16
-32/-33																					13
-34/-35																					13
-36/-37																					9
-38/-39																					1
TOTAL	59.2	40.4	.4															929	929	929	929

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4823392	65454	70.5	15.105	929							
Dry Bulb	214022	2922	3.1	14.857	929	42.5	92.2					93
Wet Bulb	201997	2459	2.6	10.516	929	48.2	92.7					93
Dew Point	307818	-6198	-6.5	17.648	929	57.1	93.0					93

USAFETAC FORM 0-26-3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JAN MONTH

ALL HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45			.0	.0														3	3		
44/ 43			.0															2	2		
42/ 41			.1	.1														10	10	3	
40/ 39		.0	.1	.0														14	14	3	
38/ 37		.1	.2															23	23	10	
36/ 35	.0	.4	.1															40	40	32	6
34/ 33	.0	.6	.1	.0														57	57	44	13
32/ 31	.1	.9	.2															81	81	74	47
30/ 29	.4	1.1	.1															119	119	102	82
28/ 27	.8	1.5	.1															176	176	157	107
26/ 25	.4	2.0	.1	.0														188	188	154	125
24/ 23	.9	1.5	.2	.0														192	192	247	104
22/ 21	1.1	1.5	.1															204	204	228	169
20/ 19	1.8	3.1	.1															367	367	259	217
18/ 17	1.2	2.5	.1	.0														283	283	313	243
16/ 15	.8	2.6	.0															258	258	268	236
14/ 13	.6	2.8	.0															259	259	221	273
12/ 11	1.0	2.3																245	245	282	221
10/ 9	.9	2.7																271	271	273	230
8/ 7	.9	2.7																272	272	253	212
6/ 5	.8	2.7																261	261	323	198
4/ 3	1.2	3.2																327	327	317	196
2/ 1	1.4	4.5																435	435	366	257
0/ -1	3.8	1.4																386	386	495	263
-2/ -3	2.4	2.2																340	340	366	288
-4/ -5	2.8	1.2																303	303	294	270
-6/ -7	3.4	.7																305	305	346	252
-8/ -9	4.8																	353	356	394	265
-10/-11	4.9																	364	367	364	289
-12/-13	2.6																	192	192	192	169
-14/-15	4.0																	299	301	299	290
-16/-17	3.0																	223	223	223	260
-18/-19	3.2																	236	236	236	346
-20/-21	1.9																	140	140	140	313

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JAN (MONTH)

 ALL (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
-22/-23	1.2																	89	89	89	290
-24/-25	.9																	70	70	70	285
-26/-27	.5																	35	35	35	236
-28/-29	.1																	5	5	5	195
-30/-31	.0																	1	1	1	132
-32/-33																					150
-34/-35																					115
-36/-37																					62
-38/-39																					20
-40/-41																					1
-42/-43																					1
TOTAL	54.0	44.1	1.7	.2															7436		7428
																	7428		7428		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	37451096	515752	69.8	18.863	7428							
Dry Bulb	1751298	26544	3.6	18.927	7436	335.1	729.1					744
Wet Bulb	1622253	22153	3.0	18.475	7428	350.5	738.8					744
Dew Point	2424050	-32800	-4.4	17.518	7428	449.9	742.1					744

USAFETAC FORM 0-26-3 OL A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

P 1 0000-0200 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL Bulb	Wet Bulb	Dew Point
40/ 39		.4	.4																6		
38/ 37		.2	.4																5	5	
36/ 35		1.7	.6	.1															20	3	3
34/ 33	.7	1.4	.4	.2														23	23	31	2
32/ 31	.2	.8	.1															10	10	14	27
30/ 29	.6	2.7	.2															30	30	16	15
28/ 27	.7	2.4	.1															27	27	37	16
26/ 25	.1	2.6																23	23	25	21
24/ 23	.8	4.3																43	43	38	22
22/ 21	1.5	2.1																31	31	46	28
20/ 19	2.4	3.4																49	49	28	47
18/ 17	.7	3.7	.2															39	39	41	43
16/ 15	.6	3.2																32	32	40	23
14/ 13	.8	2.1																25	25	26	27
12/ 11	1.3	2.8																35	35	30	39
10/ 9	.8	3.8																39	39	36	37
8/ 7	.9	5.4																54	54	46	22
6/ 5	1.2	1.8																25	25	49	25
4/ 3	1.2	3.2																37	37	32	27
2/ 1	1.5	5.0																55	55	46	50
0/ -1	3.3	.4																31	31	47	35
-2/ -3	1.9	1.7																30	30	26	25
-4/ -5	2.4	1.7																34	34	29	38
-6/ -7	2.7	.8																30	30	35	22
-8/ -9	2.1																	18	18	25	33
-10/-11	3.9																	33	33	33	16
-12/-13	1.1																	9	9	9	14
-14/-15	1.9																	16	16	16	25
-16/-17	2.0																	17	17	17	14
-18/-19	1.7																	14	14	14	29
-20/-21	.4																	3	3	3	37
-22/-23																					22
-24/-25	.1																	1	1	1	20
-26/-27	.1																	1	1	1	15

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

PAGE 2 0000-0200 HOURS

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-28/-29	.1																	1	1	1	9
-30/-31																					2
-32/-33																					9
-34/-35																					4
-40/-41																					3
TOTAL	39.8	57.4	2.4	.4														846		846	846

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4598779	61311	72.5	13.568	846							
Dry Bulb	256673	8157	9.6	14.515	846	23.6	78.6					84
Wet Bulb	233871	7493	8.9	14.079	846	25.5	80.1					84
Dew Point	253939	2041	2.4	7.167	846	36.9	83.5					84

USAFETAC FORM 0 26 3 01 A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

 0300-0500 (HRS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
40/ 39		.1	.2															3	3			
38/ 37		.5	.1	.1														6	6	1		
36/ 35		.4	.7															9	9	7		
34/ 33	.7	2.0	.4	.1														27	27	20		5
32/ 31	.4	2.2	.1	.1														24	24	23		20
30/ 29	.7	.8	.1															14	14	22		23
28/ 27	.1	1.8																16	16	14		17
26/ 25	.2	3.8	.1															35	35	24		11
24/ 23	.6	3.1																31	31	40		23
22/ 21	2.0	2.8																41	41	44		18
20/ 19	1.8	3.8																47	47	37		47
18/ 17	.8	4.1																42	42	46		34
16/ 15	.8	3.1	.1															34	34	34		38
14/ 13	.7	2.0																23	23	27		30
12/ 11	1.2	2.2	.1															30	30	28		40
10/ 9	.7	3.7																37	37	35		25
8/ 7	.9	3.7																39	39	33		23
6/ 5	1.4	2.7																35	35	52		23
4/ 3	1.7	3.7																45	45	42		32
2/ 1	1.5	4.7																53	53	48		46
0/ -1	2.6	.6																27	27	36		27
-2/ -3	2.2	2.0																36	36	31		34
-4/ -5	2.0	1.2																27	27	29		32
-6/ -7	3.1	.6																31	31	37		31
-8/ -9	3.0																	25	25	27		29
-10/-11	3.0																	25	25	25		25
-12/-13	1.4																	12	12	12		11
-14/-15	3.2																	27	27	27		20
-16/-17	1.9																	16	16	16		18
-18/-19	2.0																	17	17	17		32
-20/-21	.8																	7	7	7		29
-22/-23	.5																	4	4	4		31
-24/-25	.1																	1	1	1		16
-26/-27																						9

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

 0300-0500 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-28/-29																					22
-30/-31																					5
-32/-33																					7
-34/-35																					6
-36/-37																					6
-40/-41																					1
TOTAL	42.1	55.6	2.0	.4															846		846
																		846		846	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4557404	60982	72.1	13.831	846							
Dry Bulb	246371	7339	8.7	14.704	846	25.3	79.5					84
Wet Bulb	225736	6720	7.9	14.282	846	26.7	81.2					84
Dew Point	258571	1149	1.4	17.440	846	38.8	83.5					84

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

 0600-0900 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
42/ 41				.1														1	1		
40/ 39			.5															4	4		
38/ 37		.1	.4	.2														6	6	1	
36/ 35		.8	.5															11	11	5	
34/ 33	.5	1.9																20	20	19	4
32/ 31	.9	2.6	.2															27	27	22	18
30/ 29	.2	.6	.1															8	8	27	21
28/ 27	.1	1.3	.1															13	13	7	19
26/ 25	.4	2.8																27	27	15	14
24/ 23	.9	1.8																23	23	36	13
22/ 21	1.7	2.6																36	36	30	20
20/ 19	2.4	5.0																62	62	48	34
18/ 17	1.3	3.8																43	43	49	42
16/ 15	.8	3.7																38	38	44	31
14/ 13	.8	1.9																23	23	26	35
12/ 11	.9	1.5																21	21	24	45
10/ 9	1.1	2.7																32	32	27	30
8/ 7	1.5	3.7																44	44	36	23
6/ 5	.8	3.8																39	39	49	24
4/ 3	.9	3.3																36	36	37	22
2/ 1	1.3	4.8																52	52	48	36
0/ -1	3.0	1.7																39	39	39	34
-2/ -3	2.8	1.1																29	29	40	31
-4/ -5	2.1	1.2																28	28	21	34
-6/ -7	3.0	.2																27	27	37	25
-8/ -9	4.5																	38	38	38	32
-10/-11	3.2																	27	27	27	24
-12/-13	1.3																	11	11	11	28
-14/-15	2.7																	23	23	23	13
-16/-17	2.5																	21	21	21	20
-18/-19	1.5																	13	13	13	25
-20/-21	2.5																	21	21	21	24
-22/-23	.4																	3	3	3	31
-24/-25																					24

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-25 ? OLA ? PREVIOUS EDITION ? IS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

 0600-0800 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27																					18
-28/-29																					13
-30/-31																					8
-32/-33																					14
-34/-35																					10
-36/-37																					7
TOTAL	45.	052.	8	1.	8	.	4											846		846	
																	846		846		

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	8531977	60767	71.8	14.065	846							
Dry Bulb	237267	6535	7.7	14.868	846	27.8	79.8					84
Wet Bulb	217947	5949	7.0	14.416	846	29.2	81.5					84
Dew Point	265179	311	.4	17.711	846	41.2	83.6					84

USAFETAC FORM 0-26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

 0900-1100 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
44/ 43				.1														1	1		
40/ 39			1.4	.2														14	14		
38/ 37		.7	.9															14	14	6	
36/ 35		1.3	.5															15	15	16	
34/ 33	.6	1.5	.6															23	23	29	9
32/ 31		1.7	.7															20	20	17	25
30/ 29		1.4	.1															13	13	18	22
28/ 27	.7	2.8	.2															32	32	28	20
26/ 25	.4	3.5	.1															34	34	29	17
24/ 23	.1	2.0																18	18	30	22
22/ 21	1.2	2.7	.5															37	37	27	27
20/ 19	1.9	4.4	.1															54	54	47	36
18/ 17	.6	4.5																43	43	54	30
16/ 15	.1	3.1	.1															28	28	29	31
14/ 13		3.0																25	25	23	35
12/ 11	.7	4.4	.2															45	45	36	38
10/ 9	.8	3.8																39	39	48	27
8/ 7	.7	3.4																35	35	34	31
6/ 5	.7	2.5																27	27	35	22
4/ 3	1.2	3.5																40	40	39	35
2/ 1	1.2	4.6																49	49	53	48
0/ -1	4.7	1.5																53	53	49	21
-2/ -3	1.7	1.5																27	27	34	30
-4/ -5	1.1	1.2																19	19	17	40
-6/ -7	1.5	1.3																24	24	25	31
-8/ -9	4.1																	35	35	41	26
-10/-11	2.2																	19	19	19	33
-12/-13	1.5																	13	13	13	11
-14/-15	1.9																	16	16	16	20
-16/-17	1.3																	11	11	11	18
-18/-19	1.8																	15	15	15	23
-20/-21	.8																	7	7	7	28
-22/-23	.1																	1	1	1	23
-24/-25																					19

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 21 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

 0900-1100 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27																					16
-28/-29																					12
-30/-31																					9
-32/-33																					6
-34/-35																					1
-36/-37																					4
TOTAL	33.7	60.4	5.6	.4													846	846		846	
																			846		

E' (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel.	4379220	59850	70.71	13.106	846							
Dry Bulb	2738488	48688	10.28	18.798	846	23.8	77.3					84
Wet Bulb	2481240	7872	9.31	18.220	846	24.6	78.9					84
Dew Point	2556805	2089	2.51	17.216	846	36.8	83.1					84

USAFETAC FORM 0 26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

 1200-1400 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
48/ 47				.4														3	3		
46/ 45			.2	.6														7	7		
44/ 43			.1	.6														6	6		
42/ 41		.2	.8	.5														13	13	5	
40/ 39		.4	.9	.5														15	15	12	
38/ 37		1.2	1.2															20	20	16	4
36/ 35		1.3	.8	.1														19	19	23	5
34/ 33	.2	1.4	.8															21	21	27	22
32/ 31		2.1	1.1															27	27	21	29
30/ 29	.2	2.4	.9	.1														31	31	26	22
28/ 27	.9	3.2	.4															38	38	40	27
26/ 25	.2	3.0	.6															32	32	36	31
24/ 23		2.4	.5															24	24	31	23
22/ 21	.8	3.7	.5															42	42	33	23
20/ 19	.4	6.6	.6															64	64	42	39
18/ 17	.4	3.3	.1															32	32	59	35
16/ 15	.2	4.0	.4															39	39	35	29
14/ 13	.5	4.1	.2															41	41	35	52
12/ 11	.6	3.4	.4															37	37	39	32
10/ 9	.5	3.7	.1															36	36	45	37
8/ 7	.1	4.1																36	36	35	33
6/ 5	.4	2.5																24	24	37	20
4/ 3	.5	4.6																43	43	38	26
2/ 1	.6	4.6																44	44	39	44
0/ -1	2.7	1.5																36	36	43	30
-2/ -3	.9	1.7																22	22	25	39
-4/ -5	1.2	1.7																24	24	22	33
-6/ -7	1.9	.5																20	20	28	23
-8/ -9	1.8																	15	15	19	35
-10/-11	2.2																	19	19	19	18
-12/-13	.4																	3	3	3	17
-14/-15	.8																	7	7	7	16
-16/-17	.5																	4	4	4	16
-18/-19	.2																	2	2	2	32

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3 OL A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

609 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

 1200-1400 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-20/-21																				17
-22/-23																				12
-24/-25																				12
-26/-27																				7
-28/-29																				3
-30/-31																				2
-34/-35																				1
TOTAL	19	167	510	6	2												846	846	846	846

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4201092	58688	69.4	12.393	846							
Dry Bulb	361892	12558	14.8	9.411	846	15.1	73.7					89
Wet Bulb	309618	11352	13.4	8.693	846	17.1	75.8					89
Dew Point	258972	5990	6.4	6.263	846	31.1	80.9					89

USAFETAC FORM 0-26-3-OL-A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
48/ 47			.1	.5	.2													7	7		
46/ 45		.1	.6	.6														11	11		
44/ 43			.6	.4	.2													10	10	3	
42/ 41		.2	.5	.6														11	11	13	1
40/ 39		.5	1.7	.1														19	19	10	1
38/ 37		1.4	1.4	.1														25	25	17	9
36/ 35		1.9	.7															22	22	32	9
34/ 33	.1	.8	.8															15	15	28	22
32/ 31	.1	2.2	1.2	.4														33	33	20	35
30/ 29	.2	1.7	.1															17	17	22	20
28/ 27	.4	2.6	.9															33	33	29	30
26/ 25	.6	3.9	1.1															47	47	33	23
24/ 23	.5	3.6	.6															39	39	60	21
22/ 21	.6	4.1	.7															46	46	34	24
20/ 19	.8	6.6	.5															67	68	54	43
18/ 17	.1	3.4	.5															34	34	56	44
16/ 15	.8	3.0																32	32	37	52
14/ 13		4.0	.1															35	35	22	37
12/ 11	.5	4.4	.4															44	44	36	33
10/ 9	.6	2.7	.4															31	31	50	33
8/ 7	.6	3.0																30	30	34	38
6/ 5	.4	3.2																30	30	35	28
4/ 3	.9	5.0																46	46	42	24
2/ 1		4.7																40	40	39	36
0/ -1	1.5	1.2																23	23	31	30
-2/ -3	.1	2.1																19	19	20	38
-4/ -5	1.4	1.3																23	23	23	25
-6/ -7	1.8	.6																21	21	25	31
-8/ -9	1.8																	15	15	20	22
-10/-11	1.4																	12	12	12	20
-12/-13	.5																	4	4	4	6
-14/-15	.5																	4	4	4	10
-16/-17																					29
-18/-19																					33

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

PAGE 2 | 1500-1700 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
-20/-21																					14
-22/-23																					6
-24/-25																					8
-26/-27																					7
-28/-29																					3
TOTAL	15.9	68.3	12.8	2.6	.5													846			845
																	845		845		

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Re Mum	822018	58773	69.6	12.520	845							
Dry Bulb	900216	13900	16.9	9.260	846	12.0	72.1					84
Wet Bulb	380808	12580	14.9	13.987	845	13.8	73.8					84
Dew Point	272913	6755	8.0	16.087	845	28.0	79.8					84

USAFETAC FORM 0-26 3 OCT 69 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

 1800-2000 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
44/ 43			.5															4	4		
42/ 41			.5															4	4		
40/ 39		.1	1.1	.1														11	11	4	
38/ 37		.9	.6	.1														14	14	11	1
36/ 35		2.2	.5															23	23	16	1
34/ 33	.1	2.4	.7															27	27	31	18
32/ 31	.6	3.9	.6															43	43	28	41
30/ 29	.2	1.5	.7															21	21	39	18
28/ 27	.8	2.6																29	29	22	29
26/ 25	.8	3.3	.1															36	36	39	31
24/ 23	.5	2.4	.2															26	26	33	23
22/ 21	1.2	3.1	.4															39	39	37	24
20/ 19	1.3	3.1	.4															40	40	28	40
18/ 17	.8	5.7																55	55	55	36
16/ 15	.8	3.5																37	37	50	21
14/ 13	.5	3.7																35	35	26	45
12/ 11	.8	2.6	.1															30	30	37	32
10/ 9	.7	2.8																30	30	32	38
8/ 7	.8	5.6																54	54	39	43
6/ 5	.9	2.5																29	29	54	25
4/ 3	.6	3.7																36	36	32	23
2/ 1	.7	4.8																47	47	41	39
0/ -1	3.3	.7																34	34	44	28
-2/ -3	1.5	1.2																23	23	23	24
-4/ -5	1.7	2.1																32	32	25	29
-6/ -7	2.4	.9																28	28	34	37
-8/ -9	1.3																	11	11	18	35
-10/-11	1.9																	16	16	16	24
-12/-13	.5																	4	4	4	12
-14/-15	1.4																	12	12	12	13
-16/-17	1.1																	9	9	9	19
-18/-19	.5																	4	4	4	23
-20/-21	.1																	1	1	1	27
-22/-23																					13

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | FEB MONTH

PAGE 2 | 1800-2000 HOURS (L... T...)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
-24/-25	.2																	2	2	2	12
-26/-27																					5
-28/-29																					7
-30/-31																					4
-32/-33																					1
-34/-35																					4
-36/-37																					1
TOTAL	28.1	65.4	6.3	.2															846		846
																		846		846	

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4551548	61070	72.2	13.013	846							
Dry Bulb	320397	11171	13.2	19.309	846	17.5	75.8					89
Wet Bulb	285452	10276	12.1	13.788	846	19.1	77.8					89
Dew Point	265258	4870	5.8	16.755	846	31.6	82.0					89

USAFETAC FORM 0 26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

PAGE 1 — 2100-2300 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
42/ 41			.1															1	1		
40/ 39		.1	.7															7	7	1	
38/ 37		.8	.6															12	12	5	
36/ 35		1.9	.5															20	20	9	1
34/ 33	.1	1.3	.6															17	17	28	9
32/ 31	.4	2.5	.4															27	27	21	31
30/ 29	.1	3.2																28	28	23	22
28/ 27	1.1	2.7	.1															33	33	39	10
26/ 25	.4	2.8		.1														28	28	31	33
24/ 23	.5	3.5	.1															35	35	40	26
22/ 21	1.8	2.5	.5															40	40	37	33
20/ 19	1.3	2.6	.2															35	35	30	41
18/ 17	.7	3.5																36	36	29	39
16/ 15	.9	3.4																37	37	49	17
14/ 13	.5	3.5																34	34	29	24
12/ 11	1.2	2.0																27	27	38	32
10/ 9	1.9	2.7																39	39	35	35
8/ 7	.8	3.8																39	39	23	50
6/ 5	1.8	2.2																34	34	57	24
4/ 3	2.1	4.5																56	56	42	20
2/ 1	1.3	4.8																52	52	64	41
0/ -1	3.1	1.3																37	37	33	29
-2/ -3	1.8	2.2																34	34	37	39
-4/ -5	1.1	1.2																19	19	19	38
-6/ -7	2.2	.6																24	24	30	24
-8/ -9	3.3																	28	28	30	24
-10/-11	1.8																	15	15	15	28
-12/-13	.6																	5	5	5	20
-14/-15	2.4																	20	20	20	22
-16/-17	1.8																	15	15	15	14
-18/-19	.8																	7	7	7	25
-20/-21	.2																	2	2	2	25
-22/-23																					16
-24/-25	.2																	2	2	2	11

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA Previous Editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) FEB (MONTH)

PAGE 2 2100-2300 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27	.1																			1	1	16
-28/-29																						14
-30/-31																						4
-32/-33																						2
-34/-35																						4
-36/-37																						1
-38/-39																						2
TOTAL	36.	25.	9.	3.	8.	.1														846		846
																		846			846	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum	4629836	61518	72.7	13.608	846							
Dry Bulb	276191	9257	10.9	14.387	846	20.8	78.3					84
Wet Bulb	249841	8531	10.1	13.924	846	21.4	79.7					84
Dew Point	256271	3157	3.7	17.010	846	35.5	83.0					84

USAFETAC FORM 0-26-3 OL-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION GRAND FORKS AFB ND STATION NAME 73-82 YEARS FEB MONTH

 ALL

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5	6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry B.-Wet B.	TOTAL Wet B.-Dew P.
48/ 47			.0	.1	.0														10	10		
46/ 45		.0	.1	.1															18	18		
44/ 43			.1	.1	.0														21	21	3	
42/ 41		.1	.2	.1															30	30	18	1
40/ 39		.2	.9	.1															79	79	27	1
38/ 37		.7	.7	.1															102	102	62	14
36/ 35		1.4	.6	.0															139	139	111	19
34/ 33	.4	1.6	.5	.0															173	173	213	91
32/ 31	.3	2.3	.5	.1															211	211	166	226
30/ 29	.3	1.8	.3	.0															162	162	193	163
28/ 27	.6	2.4	.2																221	221	216	168
26/ 25	.4	3.2	.3	.0															262	262	232	181
24/ 23	.5	2.9	.2																239	239	310	173
22/ 21	1.3	3.0	.3																312	312	288	197
20/ 19	1.5	4.4	.2																418	419	314	327
18/ 17	.7	4.0	.1																324	324	389	30[illegible]
16/ 15	.7	3.4	.1																277	277	318	242
14/ 13	.5	3.0	.0																241	241	214	285
12/ 11	.9	2.9	.1																269	269	268	291
10/ 9	.9	3.2	.1																283	283	308	262
8/ 7	.8	4.1																	331	331	280	263
6/ 5	.9	2.6																	243	243	368	191
4/ 3	1.1	3.9																	339	339	334	259
2/ 1	1.0	4.8																	392	392	378	340
0/ -1	3.0	1.1																	280	280	322	234
-2/ -3	1.6	1.7																	220	220	236	260
-4/ -5	1.6	1.4																	206	206	185	269
-6/ -7	2.3	.7																	205	205	251	224
-8/ -9	2.7																		185	185	218	236
-10/-11	2.5																		166	166	166	188
-12/-13	.9																		61	61	61	119
-14/-15	1.8																		125	125	125	139
-16/-17	1.4																		93	93	93	148
-18/-19	1.1																		72	72	72	222

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITIONS ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — FEB MONTH

 ALL HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-20/-21	.6																	41	41	41	201
-22/-23	.1																	8	8	8	154
-24/-25	.1																	6	6	6	122
-26/-27	.0																	2	2	2	93
-28/-29	.0																	1	1	1	83
-30/-31																					34
-32/-33																					39
-34/-35																					30
-36/-37																					19
-38/-39																					2
-40/-41																					4
TOTAL	32.5	60.9	5.6	.9	.1														6768		6767
																		6767		6767	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	35669985	482959	71.4	13.325	6767							
Dry Bulb	2372855	77585	11.5	14.806	6768	165.9	615.2					672
Wet Bulb	2106893	70773	10.5	14.213	6767	177.5	628.9					672
Dew Point	2085708	25812	3.8	17.138	6767	280.0	659.5					672

USAFETAC FORM 0-26-3-OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 1 | 0000-0200 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
48/ 47				.1	.2													3	3		
46/ 45			.2	.1														3	3		
44/ 43			.5															5	5		
42/ 41		.6	.9	.1														15	15	5	
40/ 39		.6	.9	.1														15	15	16	
38/ 37	.1	2.4	.5	.4														32	32	15	7
36/ 35	.5	2.8	1.4															44	44	38	19
34/ 33	1.5	7.0	1.4	.1	.1													94	94	64	44
32/ 31	2.1	7.0	1.5	.6														104	104	98	75
30/ 29	1.0	4.1	1.8	.1														65	65	82	57
28/ 27	.6	4.1	1.2															55	55	60	64
26/ 25	.9	2.9	1.9															53	53	63	60
24/ 23	.4	1.4	.2															19	19	47	44
22/ 21	1.2	1.7	.5															32	34	38	46
20/ 19	.2	3.9	.2															40	40	21	41
18/ 17	1.0	4.3	.1															50	51	55	36
16/ 15	.6	3.7																40	40	43	38
14/ 13	.6	1.6																21	21	32	38
12/ 11	1.3	2.6																36	36	29	59
10/ 9	.9	2.6																32	33	38	36
8/ 7	1.4	2.4																35	37	35	32
6/ 5	.4	1.5																18	18	27	26
4/ 3	.8	1.3																19	19	20	17
2/ 1	.8	2.5																30	30	21	28
0/ -1	.6	.6																12	12	20	25
-2/ -3	1.0	1.2																20	20	22	31
-4/ -5	.4	.6																10	10	9	14
-6/ -7	.5	.2																7	7	11	6
-8/ -9	.4																	4	4	4	5
-10/-11	.2																	2	2	2	14
-12/-13	.3																	3	3	3	14
-14/-15	.4																	4	4	4	16
-16/-17	.2																	2	2	2	12
-18/-19																					8

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

PAGE 2 0000-0200 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-20/-21																					2
-22/-23																					1
-26/-27																					2
-28/-29																					2
-30/-31																					3
-32/-33																					1
-34/-35																					1
TOTAL	20.	6	64.	0	13.	4	1.	7	.3										930		924
																		924		924	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5586306	70848	76.7	12.917	924							
Dry Bulb	597351	20325	21.9	12.840	930	6.4	71.9					93
Wet Bulb	528207	18915	20.5	12.360	924	7.7	79.1					93
Dew Point	418368	14312	15.5	10.598	924	15.8	86.0					93

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

PAGE 1 — 0300-0500 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45			.1	.2														3	3	
44/ 43			.2	.1														3	3	
42/ 41		.4	.2															6	6	2
40/ 39		.6	.6															12	12	8
38/ 37		1.8	.9	.1														26	26	12	5
36/ 35	.5	2.8	1.1															41	41	28	8
34/ 33	1.8	6.1	1.4	.2														88	88	57	38
32/ 31	2.7	6.4	1.4	.6														103	103	97	77
30/ 29	1.1	4.1	1.1	.2														60	60	79	53
28/ 27	.5	4.2	1.3	.1														57	57	56	58
26/ 25	.9	3.8	1.0															52	54	63	51
24/ 23	.6	2.1	.8															32	33	60	46
22/ 21	1.5	1.9	.9															40	40	42	44
20/ 19	.5	3.7	.6															45	45	30	51
18/ 17	.9	3.7	.2															44	44	49	32
16/ 15	.6	2.5																29	29	35	46
14/ 13	.6	2.4																28	28	23	43
12/ 11	1.4	2.6																37	37	39	40
10/ 9	1.0	2.7																34	34	31	43
8/ 7	.9	2.9																35	38	44	42
6/ 5	1.0	1.6																24	24	27	24
4/ 3	.9	1.8																25	25	25	31
2/ 1	.6	1.8																23	23	24	33
0/ -1	1.1	.6																16	16	16	26
-2/ -3	.3	1.6																18	18	14	22
-4/ -5	.9																	8	8	18	8
-6/ -7	1.3	.2																14	14	13	10
-8/ -9	.3																	3	3	4	8
-10/-11	.9																	8	8	8	12
-12/-13	.3																	3	3	3	10
-14/-15	.3																	3	3	3	14
-16/-17	.4																	4	4	4	15
-18/-19																					14
-20/-21																					9

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 2 | 0300-0500 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-22/-23																					2
-26/-27																					4
-28/-29																					1
-30/-31																					1
-32/-33																					1
-34/-35																					2
TOTAL	24.0	62.6	11.8	1.6														924	930	924	926

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5592932	70862	76.7	13.104	924							
Dry Bulb	552387	19247	20.7	12.878	930	7.7	75.1					93
Wet Bulb	490539	17931	19.4	12.428	924	8.4	82.2					93
Dew Point	392023	13259	14.3	8.785	924	16.0	87.9					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 1 | 0600-0800 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
44/ 43				.1														1	1		
42/ 41			.3	.5														8	8		
40/ 39			.2	.8														9	9	5	
38/ 37	.1	2.1	1.0															29	29	12	4
36/ 35	.3	2.8	.8	.3														39	39	33	4
34/ 33	1.8	6.1	2.5	.1														97	97	55	43
32/ 31	2.1	5.4	1.1	.8														86	86	91	73
30/ 29	1.1	3.6	1.6	.3														61	61	76	48
28/ 27	1.0	3.6	.8															49	49	55	56
26/ 25	.5	3.9	1.7	.1														58	59	61	52
24/ 23	.1	2.7	.3															29	29	54	36
22/ 21	1.6	1.9	.8															40	41	46	46
20/ 19	1.3	4.0	.6															55	55	35	43
18/ 17	.6	3.9																42	42	56	45
16/ 15	.3	2.6																27	27	35	48
14/ 13	1.0	3.6																42	42	30	42
12/ 11	1.1	1.5																24	25	43	38
10/ 9	1.3	1.7																28	28	27	51
8/ 7	.6	2.6																30	30	30	38
6/ 5	1.0	2.2																29	31	33	27
4/ 3	.8	2.7																32	32	25	25
2/ 1	.6	2.8																32	32	34	36
0/ -1	1.6	.3																18	18	26	19
-2/ -3	.4	.5																9	9	10	14
-4/ -5	.8	.5																12	12	10	18
-6/ -7	.8																	7	7	11	20
-8/ -9	1.1																	10	10	10	16
-10/-11	.8																	7	7	7	13
-12/-13	.3																	3	3	3	9
-14/-15	.9																	8	8	8	9
-16/-17	.4																	4	4	4	12
-18/-19																					14
-20/-21																					8
-22/-23																					5

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 2 | 0600-0800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31					
-24/-25																						4
-26/-27																						2
-28/-29																						4
-30/-31																						2
-32/-33																						1
TOTAL	24.3	61.5	12.4	1.7																930		925
																			925		925	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5562931	70681	76.4	13.248	925							
Dry Bulb	538316	18762	20.2	13.116	930	7.8	74.7					93
Wet Bulb	477706	17474	18.9	12.639	925	8.9	82.4					93
Dew Point	383945	12729	13.8	15.032	925	17.1	87.9					93

FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 1 | 0900-1100 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
54/ 53						.1												1	1		
52/ 51				.2		.2												4	4		
50/ 49				.1	.1													2	2		
48/ 47				.3	.2	.1												6	6		
46/ 45		.1	.2	.4	.2	.1												10	10	2	
44/ 43	.1		1.2	.4	.1													17	17	4	1
42/ 41		.8	1.2	.5	.1	.2												26	25	11	1
40/ 39	.1	1.3	1.7	.5	.3													37	37	24	4
38/ 37	.1	2.9	1.7	.6	.2													52	52	38	15
36/ 35	.4	4.0	2.2	.3	.3													67	67	65	25
34/ 33	.8	5.2	1.8	.6														78	78	71	48
32/ 31	1.4	3.1	2.8	.8	.1													72	72	83	82
30/ 29	.6	1.6	2.5	.3														47	47	52	66
28/ 27	.9	2.6	1.1	.2														44	44	50	46
26/ 25	.3	3.7	.6	.1														44	44	59	43
24/ 23	.4	3.2	.2															36	36	52	28
22/ 21	.5	3.0	.5															38	39	43	48
20/ 19	1.2	4.4	.2															54	55	45	45
18/ 17	.5	3.5																37	37	55	55
16/ 15	.4	4.1	.1															43	44	35	52
14/ 13	.6	2.2	.1															27	28	39	48
12/ 11		2.4																22	22	20	34
10/ 9	.5	2.1	.2															26	26	26	39
8/ 7	.3	2.8	.1															30	30	29	40
6/ 5	.2	2.6																26	26	30	21
4/ 3	.2	1.7																18	18	25	21
2/ 1	.3	2.1																22	22	20	22
0/ -1	1.1	.1																11	11	20	17
-2/ -3	.2	.5																7	7	5	20
-4/ -5	.2	.5																7	7	8	17
-6/ -7	.5																	5	5	7	24
-8/ -9	.8																	7	7	7	17
-10/-11	.1																	1	1	1	8
-12/-13	.1																	1	1	1	6

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 01 A (8-73) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 2 0900-1100 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≠ 31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
-14/-15	.1																	1	1	1	9
-16/-17																					5
-18/-19																					10
-20/-21																					1
-22/-23																					3
-24/-25																					4
-28/-29																					1
TOTAL	13.3	60.5	18.1	5.6	1.7	.8													930		926
																		926		926	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5087943	67407	72.8	13.998	926							
Dry Bulb	701421	22551	24.2	12.900	930	4.0	63.0					93
Wet Bulb	594668	20620	22.3	12.103	926	5.0	71.4					93
Dew Point	436528	15220	16.4	18.194	926	14.3	83.6					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

PAGE 1 — 1200-1400 HOURS (L.S.T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63								.1	.1									2	2			
60/ 59						.2		.2										4	4			
58/ 57					.1		.1	.2										4	4			
56/ 55		.1	.1	.1	.3	.1	.3											10	10			
54/ 53						.5	.2											7	7	1		
52/ 51				.1		.3	.2											6	6	1	1	
50/ 49			.3	.5	.5	.3	.1											17	17	6	1	
48/ 47		.1	.6	.8	.4		.2											20	20	5		
46/ 45		.1	1.1	1.1	.3	.1												25	25	12	1	
44/ 43		.3	.9	1.1	.2	.4												27	27	21	3	
42/ 41		1.2	1.2	.5	.3	.2												32	32	33	6	
40/ 39		1.0	1.7	1.0	.1	.2												37	37	39	16	
38/ 37	.1	2.9	2.0	.3	.3													53	53	38	23	
36/ 35	.5	4.6	3.1	.9	.1	.1												87	87	60	21	
34/ 33	.4	3.2	1.8	1.2	.2													64	64	92	47	
32/ 31	.6	1.9	3.2	1.2														63	63	61	107	
30/ 29	.4	2.2	1.7	.3														43	44	54	62	
28/ 27	.1	3.2	1.5	.1														46	47	58	39	
26/ 25	.2	3.2	1.1															42	42	59	45	
24/ 23	.2	2.4	1.3															36	37	55	34	
22/ 21	.3	1.9	.9															29	29	37	44	
20/ 19	.8	5.6	.6															65	65	32	64	
18/ 17	.1	3.1	.8															37	37	60	58	
16/ 15	.3	2.9	.4															34	34	40	48	
14/ 13		2.7	.4															29	29	24	38	
12/ 11	.3	1.7	.5															24	24	31	41	
10/ 9	.1	1.6	.2															18	18	24	50	
8/ 7	.3	2.4																25	25	21	22	
6/ 5		1.1																10	10	26	18	
4/ 3	.1	1.4																14	14	15	20	
2/ 1	.2	.4																6	6	11	26	
0/ -1	.4																	4	4	4	12	
-2/ -3		.4																4	4	4	16	
-4/ -5		.2																2	2	1	14	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Ref. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

 1200-1800 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-6/ -7		.1																1	1		2	17
-8/ -9																						12
-10/-11																						4
-12/-13																						10
-14/-15																						3
-16/-17																						1
-20/-21																						2
-22/-23																						1
TOTAL	5.7	52.2	25.5	9.2	3.0	2.6	1.2	.5	.1									927		930		927
																		927			927	

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4600606	63859	68.9	18.777	927							
Dry Bulb	911909	26611	28.6	12.726	930	1.1	53.5					93
Wet Bulb	735250	23876	25.8	11.398	927	1.1	62.1					93
Dew Point	595500	17724	19.1	13.005	927	9.2	81.1					93

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

PAGE 1 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL Wet Bulb	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
66/ 55									.1									1	1		
64/ 63									.2									2	2		
62/ 61								.2	.2									4	4		
60/ 59						.2		.2										4	4		
58/ 57					.2		.1	.1										4	4		
56/ 55						.2	.3											5	5		
54/ 53						.6	.3	.1										10	10		
52/ 51			.2	.1	.6	.3	.2											14	14		
50/ 49		.1	.6	.3	.9	.2	.2											22	22	6	
48/ 47		.2	.4	1.0	1.0		.1											25	25	9	
46/ 45		.1	1.0	1.1	.5	.1												26	26	15	2
44/ 43			1.4	.3	.4	.4	.1											25	25	28	6
42/ 41		.6	2.3	.4	.4	.1												36	36	37	6
40/ 39		.8	1.4	.3	.9													31	31	44	14
38/ 37	.1	3.2	2.2	1.1	.3	.3												67	67	37	20
36/ 35	.2	4.8	2.2	.9														74	74	55	27
34/ 33	.8	4.0	2.8	1.5	.1													85	85	99	65
32/ 31	.9	1.0	3.5	1.0														58	58	69	109
30/ 29	.4	3.1	2.2	.1														54	55	61	54
28/ 27	.2	2.6	1.7															42	45	70	47
26/ 25	.3	2.1	1.1	.1														33	33	54	52
24/ 23		1.9	.2															20	20	34	37
22/ 21	.8	2.7	1.6															47	47	42	43
20/ 19	.8	4.0	.8															51	51	37	67
18/ 17	.4	2.6	1.6															43	43	49	60
16/ 15	.1	1.7	.9															25	25	32	50
14/ 13		2.2	.4															24	24	28	38
12/ 11	.5	2.3	.5															31	31	30	30
10/ 9	.3	1.9	.8															28	28	29	23
8/ 7	.2	1.3																14	14	30	28
6/ 5		1.0																9	9	16	31
4/ 3		.2																2	2	5	27
2/ 1		.4																4	4	3	18
0/ -1																				1	21

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 83 F	≤ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAR MONTH

PAGE 2 1500-1700

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-2/ -3		.3																3		3	1	20
-4/ -5		.3																3		3	5	5
-6/ -7																						5
-8/ -9																						8
-10/-11																						7
-12/-13																						1
-14/-15																						2
-20/-21																						3
TOTAL	6.0	45.5	29.7	8.2	5.4	2.6	1.4	.6	.5										930			926
																		926		926		

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	4570095	63523	68.6	15.155	926							
Dry Bulb	984263	27939	30.0	12.490	930		.6	49.5				93
Wet Bulb	782834	24932	26.9	10.982	926		.7	59.9				93
Dew Point	522276	18816	20.3	12.300	926	7.2		78.9				93

USAFETAC FORM 0-26

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION GRAND FORKS AFB ND STATION NAME 73-82 YEARS MAR MONTH

 1800-2000

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B	TOTAL W.B.	TOTAL Dry Bulb / Wet Bulb	TOTAL Dew Point
60/ 59								.2										2	2		
56/ 55					.1		.1											2	2		
54/ 53					.1	.2	.1											4	4		
52/ 51				.1	.1	.2												4	4		
50/ 49			.2		.3	.2												7	7	1	
48/ 47			.4	.3	.3	.1	.1											12	12	1	
46/ 45		.3	.6	1.1	.6	.1												26	26	5	
44/ 43		.4	.5	.9	.2	.2												21	21	14	1
42/ 41		1.1	.9	.8		.2												27	27	24	10
40/ 39	.1	2.1	1.6	.5	.1													41	41	25	11
38/ 37	.4	2.5	1.2	.3	.4													45	45	62	16
36/ 35	.3	5.4	2.8	.1	.3													83	83	44	27
34/ 33	1.3	5.4	2.3	.5														88	88	94	49
32/ 31	1.5	3.5	3.6	.2														81	81	82	110
30/ 29	.1	3.2	3.2	.4														65	65	70	68
28/ 27	1.0	3.5	1.3	.1														54	57	74	53
26/ 25	.1	2.1	.5															25	25	61	48
24/ 23		1.2	.3															14	14	34	33
22/ 21	.3	2.5	1.1															36	36	20	57
20/ 19	1.1	4.5	.3															55	55	37	61
18/ 17	.5	3.2	.3															38	38	60	40
16/ 15	.3	2.8	.1															30	30	31	38
14/ 13	.4	3.1	.1															34	34	29	41
12/ 11	.8	2.3																28	29	35	38
10/ 9	.1	2.4	.4															27	27	24	28
8/ 7	.3	2.7																28	28	30	30
6/ 5		1.2																11	11	25	35
4/ 3	.4	.5																9	9	14	16
2/ 1	.2	1.2																13	13	10	26
0/ -1	.6	.2																8	8	10	23
-2/ -3	.1																	1	1	3	18
-4/ -5	.1	.2																3	3	2	5
-6/ -7	.2																	2	2	3	16
-8/ -9	.2																	2	2	2	14

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

 1800-2000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-10/-11																					5
-12/-13																					2
-14/-15																					1
-16/-17																					1
-18/-19																					1
-20/-21																					2
-22/-23																					2
TOTAL	10.	757.	521.	9	5.4	2.7	1.3	.3	.2									926	930	926	926

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	5143605	67843	73.3	13.680	926							
Dry Bulb	824292	25278	27.2	12.153	930	1.6	56.8					93
Wet Bulb	691372	23078	24.9	11.209	926	2.0	65.9					93
Dew Point	498740	17934	19.4	12.799	926	9.0	81.6					93

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

 2100-2300

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
52/ 51					.1													1	1		
50/ 49				.1	.1													2	2		
48/ 47			.2	.1	.2													5	5		
46/ 45		.1	.1	.1														3	3	1	
44/ 43		.4	1.0	.1														14	14	5	
42/ 41		.4	.4	.3	.1													12	12	11	2
40/ 39	.1	1.4	1.0	.3														26	26	13	7
38/ 37	.4	2.6	.9	.4	.1													41	41	27	11
36/ 35	1.0	5.3	1.5	.1														73	73	47	27
34/ 33	1.3	7.5	1.4	.4														98	98	86	41
32/ 31	1.4	5.5	1.7	.4														84	84	97	82
30/ 29	1.0	5.1	2.3	.2														79	79	63	74
28/ 27	.8	4.9	.9	.1														61	62	82	56
26/ 25	.5	3.4	1.0															45	46	71	61
24/ 23	.2	1.0	.2															13	13	44	45
22/ 21	1.0	1.6	.3															27	27	23	43
20/ 19	.8	4.9	.1															53	54	29	66
18/ 17	1.0	3.8																44	44	60	30
16/ 15	.2	2.3																23	23	28	38
14/ 13	.4	2.7																29	29	24	43
12/ 11	1.2	2.4																33	35	37	37
10/ 9	1.0	2.3																30	31	32	32
8/ 7	.5	2.1																24	24	25	31
6/ 5	.2	1.8																19	19	28	27
4/ 3		2.4																22	22	16	23
2/ 1	.2	1.4																15	15	24	30
0/ -1	1.0	.8																16	16	12	11
-2/ -3	1.0	.6																15	15	19	19
-4/ -5	.6	.1																7	7	10	15
-6/ -7	.4																	4	4	4	21
-8/ -9	.1																	1	1	1	10
-10/-11	.4																	4	4	4	12
-12/-13																					10
-14/-15																					9

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

 2100-2300 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B. Dry Bulb	Wet Bulb	Dew Point
-16/-17	.1																	1	1	1	4
-18/-19																					1
-20/-21																					2
-22/-23																					1
-24/-25																					1
-26/-27																					1
-28/-29																					1
TOTAL	16.9	66.7	13.0	2.8	.6														930		924
																		924		924	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5564112	70828	76.6	12.116	924							
Dry Bulb	674820	22262	23.9	12.360	930	4.8	65.5					93
Wet Bulb	590775	20659	22.4	11.816	924	5.1	73.9					93
Dew Point	454027	16169	17.5	13.615	924	11.9	84.1					93

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

PAGE 1 — ALL

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point		
66/ 65									.0									1	1		
64/ 63								.0	.0									4	4		
62/ 61								.0	.0									4	4		
60/ 59						.1		.1										10	10		
58/ 57					.0		.0	.0										8	8		
56/ 55		.0	.0	.0	.1	.0	.1											17	17		
54/ 53					.0	.2	.1	.0										22	22	1	
52/ 51			.0	.1	.1	.1	.1											29	29	1	1
50/ 49		.0	.1	.1	.2	.1	.0											50	50	13	1
48/ 47		.0	.2	.3	.3	.0	.1											71	71	15	
46/ 45		.1	.4	.5	.2	.1												96	96	35	3
44/ 43	.0	.1	.7	.4	.1	.1	.0											113	113	72	11
42/ 41		.7	.9	.3	.1	.1												162	162	123	25
40/ 39	.0	1.0	1.2	.4	.2	.0												208	208	174	52
38/ 37	.2	2.6	1.3	.4	.2	.0												345	345	241	101
36/ 35	.5	4.1	1.9	.3	.1	.0												508	508	370	158
34/ 33	1.2	5.6	1.9	.6	.1													692	692	618	375
32/ 31	1.6	4.2	2.3	.7	.0													651	651	678	715
30/ 29	.7	3.4	2.1	.3														474	476	537	482
28/ 27	.6	3.6	1.2	.1														408	416	505	419
26/ 25	.5	3.1	1.1	.0														352	356	491	412
24/ 23	.3	2.0	.4															199	201	380	303
22/ 21	.9	2.2	.8															289	293	291	371
20/ 19	.8	4.4	.4															418	420	266	438
18/ 17	.6	3.5	.4															335	336	442	356
16/ 15	.4	2.8	.2															251	252	289	358
14/ 13	.5	2.6	.1															234	235	229	331
12/ 11	.8	2.2	.1															235	239	264	317
10/ 9	.6	2.2	.2															223	225	231	302
8/ 7	.6	2.4	.0															221	226	244	263
6/ 5	.4	1.6																146	148	212	209
4/ 3	.4	1.5																141	141	145	180
2/ 1	.4	1.6																145	145	147	219
0/ -1	.8	.3																85	85	109	154

Element (X)	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3-OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAR MONTH

 ALL HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-2/ -3	.4	.7																77		77	78	160
-4/ -5	.4	.3																52		52	63	96
-6/ -7	.5	.1																40		40	51	119
-8/ -9	.4																	27		27	28	90
-10/-11	.3																	22		22	22	75
-12/-13	.1																	10		10	10	62
-14/-15	.2																	16		16	16	63
-16/-17	.1																	11		11	11	50
-18/-19																						48
-20/-21																						29
-22/-23																						15
-24/-25																						9
-26/-27																						9
-28/-29																						9
-30/-31																						6
-32/-33																						3
-34/-35																						3
TOTAL	15	25	8	18	2	4	5	1	7	.9	.4	.2	.1					7402	7440	7402	7402	7402

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.	41708530	545842	73.7	14.030	7402							
Dry Bulb	5784759	182975	24.6	13.142	7440	34.0	510.0					744
Wet Bulb	4891351	167485	22.6	12.201	7402	39.0	576.8					744
Dew Point	3601407	126163	17.0	14.002	7402	100.5	670.9					744

USAFETAC FORM 0 26 3 OL A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AF3 ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

PAGE 1 0000-0200 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69									.1									1	1		
66/ 67									.1									1	1		
66/ 65									.1									1	1		
64/ 63			.1						.1									2	2		
62/ 61			.2		.3			.2	.1									8	8		
60/ 59		.1	.1	.1			.3	.3										9	9	1	
58/ 57		.1	.2	.2			.1	.1										7	7	4	
56/ 55			.2	.3	.1	.2		.1										9	9	3	5
54/ 53			.2	.2	.3	.1	.1											9	9	5	1
52/ 51			.3		.7	.6	.1											15	15	8	2
50/ 49	.3	.6	.2	.7	.1	.1	.1											19	19	8	5
48/ 47	.1	1.7	.9	1.0	.3	.3												39	39	20	10
46/ 45	.1	1.7	1.0	1.2	1.2	.2												49	49	35	17
44/ 43	.3	2.1	1.2	1.7	.2	.1												51	51	44	20
42/ 41	.3	2.0	1.6	1.1	.9													53	53	42	28
40/ 39	1.6	2.6	3.1	.9	.6													78	78	67	36
38/ 37	.9	2.8	1.1	1.9	.1													61	61	78	49
36/ 35	.3	2.8	4.4	1.4	.1													82	82	62	45
34/ 33	.9	4.7	4.2	1.1														98	98	77	59
32/ 31	.9	6.2	4.3	1.2														114	114	120	74
30/ 29	.6	3.6	2.2	.2														59	59	98	85
28/ 27	.2	3.2	.7															37	37	74	75
26/ 25		1.9	.9															25	25	54	84
24/ 23		1.0	.8															16	16	23	62
22/ 21		.6	.8															12	12	16	56
20/ 19		.6	.2															7	7	16	64
18/ 17		.8																7	7	9	26
16/ 15		.7																6	6	6	19
14/ 13		.2																2	2	5	18
12/ 11		.3	.1															4	4	3	11
10/ 9		.1																1	1	2	7
8/ 7		.8																7	7	2	13
6/ 5	.1	.4																5	5	10	5
4/ 3		.2																2	2	2	2

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA (PREVIOUS EDITION OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | APR MONTH

 0000-0200 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
2/ 1	.1	.2																3	3	4		3
0/ -1	.1																	1	1	2		2
-2/ -3																						5
-4/ -5																						2
-6/ -7																						7
-8/ -9																						2
-10/-11																						1
TOTAL	6.9	41.8	29.2	13.3	5.0	1.7	.8	.8	.6										900			900
																		900		900		

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4951580	65328	72.6	15.271	900							
Dry Bulb	1276139	32661	36.3	10.059	900	.1	30.8	.2				90
Wet Bulb	1059996	29806	33.1	9.008	900	.2	49.6					90
Dew Point	789459	24969	27.7	10.373	900	1.9	62.3					90

USAFETAC FORM 0 26 3 OL A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | APR MONTH

 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
62/ 61			.1		.1			.1	.1									4	4		
60/ 59			.1		.1		.1	.1										4	4		
58/ 57			.2	.3			.2											7	7	2	
56/ 55		.6	.4		.1	.2	.1											13	13	2	1
54/ 53					.1	.1												2	2	9	5
52/ 51		.1	.7	.1	.1	.2												11	11	5	3
50/ 49	.4	.3	.1	.1	.4	.1												14	14	7	7
48/ 47	.1	.3	.2	.7	.7													18	18	13	8
46/ 45	.2	.7	1.0	1.2	.9	.2												38	38	14	9
44/ 43		1.3	1.9	.7	.1	.2												38	38	20	7
42/ 41	.6	2.6	1.2	1.1	.2													51	51	48	20
40/ 39	1.6	1.6	3.0	.8	.4													66	66	66	35
38/ 37	1.1	4.2	2.8	2.1														92	92	55	43
36/ 35	.9	3.2	2.4	1.3														71	71	84	45
34/ 33	.2	5.0	4.2	.7														91	91	76	51
32/ 31	1.0	7.0	4.7	.3														117	117	99	85
30/ 29	1.3	5.0	2.8															82	82	126	76
28/ 27	.3	4.2	1.6															55	55	86	86
26/ 25	.1	2.7	1.7															40	40	56	83
24/ 23		1.3	.7															18	18	42	56
22/ 21		1.1	.8															17	17	26	77
20/ 19		.7	.8															13	13	11	70
18/ 17		.2	.3															5	5	12	23
16/ 15																				7	30
14/ 13	.1	.8																8	8	2	21
12/ 11		.2																2	2	9	10
10/ 9		.2	.1															3	3		3
8/ 7		.4																4	4	3	9
6/ 5		.3																3	3	5	7
4/ 3		.2																2	2	2	4
2/ 1	.1	.7																7	7	6	5
0/ -1	.4																	4	4	7	
-2/ -3																					1
-4/ -5																					7

Element (X)	Σx^2	$\bar{x}$	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

 0300-0500 (HOUR)

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 ≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
-6/ -7			6
-8/ -9			2
-10/-11			2
-12/-13			1
-14/-15			1
-16/-17			1
TOTAL	9.645.031.8 9.4 3.3 1.1 .4 .2 .1	900	900
		900	900

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5196157	67225	74.7	13.945	900							
Dry Bulb	1145869	30935	34.4	9.583	900	.4	38.0					90
Wet Bulb	972881	28895	31.7	8.868	900	.7	89.9					90
Dew Point	740935	24077	26.8	10.378	900	2.1	66.6					90

USAFETAC FORM 0 26 3 OLA (PREVIOUS EDITION OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

PAGE 1 0600-0800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
66/ 65					.1													1	1			
62/ 61			.2					.1										3	3			
60/ 59			.1	.2		.3	.2	.1										9	9			
58/ 57		.1	.2	.1	.3													7	7	3		
56/ 55		.3	.1		.1	.4	.2											11	11	3		2
54/ 53	.1		.3		.2	.3												9	9	8		6
52/ 51		.3	.7	.2	.4	.3												18	18	2		3
50/ 49	.4	.7	1.0	.4	.3	.6	.1											32	32	17		6
48/ 47		.2	.8	.3	.8													19	19	19		6
46/ 45		.8	1.0	1.4	1.0	.3												41	41	22		14
44/ 43	.3	1.9	.8	1.2	.3	.1												42	42	29		14
42/ 41	.3	2.6	2.8	1.8	.9													75	75	48		26
40/ 39	.8	2.0	2.8	2.0	.3													71	71	59		39
38/ 37	1.7	1.8	2.2	1.4	.1													65	65	82		41
36/ 35	.9	4.0	3.8	1.0														87	87	69		49
34/ 33	.9	4.8	4.1	1.0														97	97	114		51
32/ 31	.7	5.3	3.8	.2														90	90	82		94
30/ 29	1.0	3.7	2.4	.1														65	65	111		70
28/ 27	.4	3.3	1.2															45	45	66		87
26/ 25	.1	2.2	1.8															37	37	52		93
24/ 23		1.1	.2															12	12	34		62
22/ 21		.3	.8															10	10	18		57
20/ 19		.9	.1															9	9	9		56
18/ 17		.3	.4															7	7	8		27
16/ 15		.3																3	3	6		25
14/ 13	.1	.2																3	3	5		9
12/ 11		.8																7	7	5		9
10/ 9		.3																3	3	4		12
8/ 7		.2	.1															3	3	3		3
6/ 5		.1																1	1	4		6
4/ 3		.9																8	8	3		4
2/ 1		.3																3	3	5		1
0/ -1	.6																	5	5	8		3
-2/ -3	.1																	1	1	1		2

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A (Previous editions of this form are obsolete.) (8-80)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

PAGE 2 0600-0800

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	≥ 31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
-4/ -5																																				5
-6/ -7																																				7
-8/ -9																																				4
-10/-11																																				1
-12/-13																																				1
-14/-15																																				3
-16/-17																																				1
TOTAL	9	5	39	93	1	81	1.6	5.0	2.4	.6	.2																						899	899	899	899

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5021725	65891	73.3	18.635	899							
Dry Bulb	1235352	32044	35.6	10.186	899	.6	31.2					90
Wet Bulb	1035498	29359	32.7	9.262	899	.9	42.9					90
Dew Point	779679	24870	27.9	10.699	899	2.7	69.3					90

USAFETAC FORM 0 26 3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

PAGE 1 0900-1100

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26-27	28	29	30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81												.1								1	1			
80/ 79										.1			.1							2	2			
78/ 77									.1				.1							2	2			
76/ 75											.3									3	3			
74/ 73							.1			.1		.1								3	3			
72/ 71							.1		.1	.3	.1									6	6			
70/ 69					.1	.1					.4									6	6			
68/ 67							.1	.3	.4		.1									9	9			
66/ 65				.3	.1		.2	.3	.2	.2	.1									14	14			
64/ 63				.1	.1	.6	.3	.2	.3											15	15	2		
62/ 61		.1	.1	.3		.1	.3	.7		.1										16	16	2		
60/ 59			.2		.4	.7	.4	.3	.3	.1										23	23	7		
58/ 57		.2	.3	.1	.7	.2	.6	.4	.2											25	25	7	3	
56/ 55	.1		.6	.3	.9	.8	.7													30	30	14	6	
54/ 53	.1	.2	.4	1.2	.7	.7	1.1	.3												43	43	22	6	
52/ 51	.1	.6	1.0	1.1	1.1	.7	1.1	.2												53	53	27	14	
50/ 49		.3	.6	.9	1.3	1.6	.3													45	45	34	8	
48/ 47	.1	.6	1.0	1.0	1.4	1.7	.2													54	54	53	11	
46/ 45	.1	.6	1.0	2.1	1.2	.7	.1													52	52	45	14	
44/ 43		1.1	1.4	1.3	1.6	.9	.1													58	58	56	28	
42/ 41	.3	1.6	2.3	1.6	.9	.4														64	64	73	48	
40/ 39	.9	.7	2.7	2.1	.9	.3														68	68	88	40	
38/ 37	.6	1.7	2.6	1.0	.7															58	58	78	44	
36/ 35	.1	3.0	2.1	1.0	.1															57	57	69	53	
34/ 33	.3	1.4	2.3	.6	.2															44	44	87	75	
32/ 31	.1	1.2	2.9	.4																42	42	57	86	
30/ 29	.3	1.0	1.3	.2																26	26	48	72	
28/ 27	.3	1.1	.9	.1																22	22	35	66	
26/ 25	.1	.6	.6																	11	11	32	74	
24/ 23		.2	.2																	4	4	14	45	
22/ 21		.4	.4																	8	8	6	47	
20/ 19		.1	.2																	3	3	5	47	
18/ 17		.2	.1																	3	3	5	30	
16/ 15		.3	.4																	7	7	4	17	

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 3 OCA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) APR (MONTH)

PAGE 2 0900-1100

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B. & W.B.	TOTAL Dry B.	TOTAL Wet B.	TOTAL Dew Point
14/ 13		.8	.2															9	9	5	9
12/ 11		.6																5	5	9	13
10/ 9		.4	.1															5	5	8	7
8/ 7		.3																3	3	4	3
6/ 5		.1																1	1	4	4
4/ 3																					7
2/ 1																					6
0/ -1																					7
-2/ -3																					6
-4/ -5																					1
-6/ -7																					2
-8/ -9																					1
TOTAL	3.7	19.4	26.1	15.9	12.4	9.3	5.9	2.9	1.8	1.0	1.1	.2	.2					900	900	900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3694145.	55173.	61.3	18.625	900							
Dry Bulb	1836682.	39070.	43.4	12.506	900		14.9	3.2	1.1	.2		90
Wet Bulb	1566332.	33908.	37.7	9.940	900		23.6					90
Dew Point	896071.	26639.	29.6	10.940	900	1.7	55.0					90

USAFETAC FORM 0-26 (OCR)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
96/ 95																	.1	1	1			
94/ 93																.1		1	1			
88/ 87														.1				1	1			
86/ 85												.1		.1				2	2			
84/ 83															.2			2	2			
82/ 81											.1	.1	.1	.4				7	7			
80/ 79									.1	.1		.1	.1	.2				6	6			
78/ 77								.1		.1		.1	.3					6	6			
76/ 75									.2	.1	.1	.2	.2					8	8			
74/ 73							.2		.1	.1	.4	.9						16	16			
72/ 71							.1	.1		.1	.2	.4						9	9			
70/ 69						.3		.1	.3	.3	.1	.1						12	12			
68/ 67					.2	.1		.1	.6	.3	.1							13	13			
66/ 65				.2	.3	.1	.3	.6	.8	.2								23	23			
64/ 63				.3	.2	.6	.3	.4	.7	.6	.2							30	30	6		
62/ 61		.1		.1	.4	.9	.2	.7	.3	.6								30	30	9		
60/ 59			.2	.1	.4	.8	.3	.6	.9	.2								32	32	12	1	
58/ 57	.1		.3	.2	.6	1.1	1.1	1.1	.7									47	47	15	1	
56/ 55				.3	1.3	1.1	1.6	1.6										53	53	22	7	
54/ 53	.2	.2		.4	.6	1.1	1.3	.7										41	41	37	10	
52/ 51		.2	1.2	.7	1.2	1.1	1.0	.4										53	53	40	9	
50/ 49	.1	.4	.7	1.1	1.1	1.6	.6	.2										52	52	43	12	
48/ 47		.7	1.0	1.3	.8	1.4	1.0	.1										57	57	62	17	
46/ 45		.6	.8	1.4	1.3	1.7	.6											57	57	64	30	
44/ 43		1.2	1.3	1.1	.7	.7	.1											46	46	79	16	
42/ 41	.3	.6	2.4	1.6	.6	.3												52	52	85	48	
40/ 39	.2	1.3	1.6	1.0	.3	.4												44	44	68	39	
38/ 37		1.3	1.4	1.1	.2													37	37	77	51	
36/ 35		1.3	1.0	.9		.2												31	31	72	65	
34/ 33		.8	1.9	.7														30	30	44	61	
32/ 31		.8	1.7	.7														28	28	34	86	
30/ 29	.4	.7	1.6	.1														25	25	40	70	
28/ 27		.4	.2	.1														7	7	27	62	
26/ 25			.3	.1														4	4	21	73	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤45 F	≤73 F	≤95 F	≥23 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-8 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 APR

STATION STATION NAME YEARS MONTH

 1200-1400

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
24/ 23		.2	.3															5	5	3		35
22/ 21		.2	.4															6	6	8		43
20/ 19		.1	.4	.1														6	6	5		57
18/ 17		.4	.7															10	10	3		31
16/ 15		.7	.1															7	7	12		15
14/ 13		.3																3	3	8		19
12/ 11																				4		5
10/ 9																						6
8/ 7																						8
6/ 5																						9
4/ 3																						4
2/ 1																						6
0/ -1																						2
-4/ -5																						2
TOTAL	1.4	12.7	19.7	13.8	10.3	13.6	8.8	6.8	4.7	2.8	1.3	2.1	.8	.9	.2	.1	.1	900	900	900	900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	2933497	47969	53.3	20.473	900							
Dry Bulb	2308905	43869	48.7	13.775	900		10.1	8.4	5.0	1.7	.2	90
Wet Bulb	1574788	36596	40.7	9.821	900		16.5					90
Dew Point	925631	27225	30.3	10.656	900	.4	53.3					90

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

 1500-1700

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	TOTAL W.B. Dry Bulb	Wet Bulb Dew Point
98/ 97																	.1	1	1	
96/ 95																	.2	2	2	
90/ 89															.1			1	1	
86/ 87															.2			2	2	
86/ 85												.1						1	1	
84/ 83												.1		.1	.6			7	7	
82/ 81											.1			.7				7	7	
80/ 79									.1	.1			.4	.1				7	7	
78/ 77									.1	.3		.1	.7	.2				13	13	
76/ 75							.1	.1					.6					7	7	
74/ 73							.2	.1			.1	.8	.1					12	12	
72/ 71								.1		.8	.2	.6						15	15	
70/ 69					.2	.4	.1	.2	.2	.8	.2							20	20	
68/ 67						.2	.2	.3	.6	.1	.2							15	15	
66/ 65				.1	.1	.3	1.0	1.3	.4	.8	.3							40	40	
64/ 63				.2	.7	.3		.2	.6	.4	.3							25	25	6
62/ 61				.2	.1	.6	.4	.8	.8	.8	.1							34	34	11
60/ 59			.2	.1	.3	.8	.9	.8	.4	.1								33	33	14
58/ 57				.6	.4	1.1	1.0	1.0	1.8									53	53	7
56/ 55				.4	1.1	1.1	1.7	1.2										50	50	37 5
54/ 53		.2	.7	1.1	1.0	1.1	1.7	.4	.2									58	58	49 7
52/ 51	.3	.1		.3	.9	1.6	1.3	.4										45	45	54 16
50/ 49		.3	.8	.4	1.4	1.0	1.8	.7										58	58	34 17
48/ 47	.2	.4	1.2	.9	1.0	1.2	.7	.2										53	53	64 16
46/ 45		.4	1.2	1.1	1.3	.7	.3											46	46	72 20
44/ 43	.1	1.3	1.1	1.6	.3	.3												43	43	72 26
42/ 41		.4	2.0	1.0	.6													36	36	100 29
40/ 39		1.3	.7	.7	.1	.3	.2											30	30	58 47
38/ 37		.8	2.2	1.1	.1	.1												39	39	90 60
36/ 35	.2	1.3	1.9	.9														39	39	36 73
34/ 33		.2	1.1	1.0														21	21	53 45
32/ 31		1.7	1.4	.6														33	33	32 90
30/ 29		.1	.8	.2														10	10	35 71
28/ 27		.2	.2	.1														5	5	19 61

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

PAGE 2 1500-1700

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
26/ 25		.1	.6															6		6	14	65
24/ 23		.3	.3															6		6	7	45
22/ 21		.3	.4															7		7	7	52
20/ 19		.8	.7															13		13	6	55
18/ 17		.3																3		3	15	30
16/ 15		.2																2		2	4	11
14/ 13		.1																1		1	2	12
12/ 11																					1	11
10/ 9																						17
8/ 7																						8
6/ 5																						6
4/ 3																						1
2/ 1																						3
TOTAL	.9	11.2	17.6	12.7	9.8	11.2	11.7	8.0	5.2	4.2	1.7	1.7	1.8	1.1	.9		.3	899		899		899
																		899			899	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum.	2693557	45485	50.6	20.900	899							
Dry Bulb	2489133	45573	50.7	14.115	899		8.6	11.0	6.0	2.4	.3	90
Wet Bulb	1643652	37466	41.7	9.570	899		14.2					90
Dew Point	923555	27293	30.4	10.283	899		53.9					90

USAFETAC FORM 0-26-3 OL-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

 1800-2000 HOURS (LST)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93																	.1	1	1		
86/ 85															.1			1	1		
84/ 83															.1			1	1		
82/ 81											.1		.1	.1				3	3		
80/ 79													.2	.2				4	4		
76/ 75								.1	.1		.1	.2	.4					9	9		
74/ 73								.2		.1	.1	.3						7	7		
72/ 71							.1				.3	.6	.1					10	10		
70/ 69							.1		.2	.4								7	7		
68/ 67					.2	.1	.2	.1	.3	.8	.1							17	17		
66/ 65				.2	.1		.3	.3	.2	.4	.1							16	16		
64/ 63				.1	.2	.2	.7	.6	.3	.2	.1							22	22	1	
62/ 61				.3	.2	.4	.7	.6	.6	.1								26	26	4	
60/ 59				.7	.3	.3	.3	1.0	.4	.1								29	29	7	
58/ 57			.1	.2	.6	.8	.6	.7	.7									32	32	11	
56/ 55			.4	.6	.6	.4	.9	.7	.3									35	35	18	3
54/ 53			.6	1.7	.6	1.2	.7	.9										50	50	24	4
52/ 51	.2	.4	.9	.6	.9	1.2	.9	.4										50	50	41	9
50/ 49		.3	.7	1.3	.9	1.2	1.2	.2										53	53	48	15
48/ 47		1.2	1.2	1.7	1.6	1.0	1.1											70	70	55	17
46/ 45	.1	.8	1.6	.9	1.1	.9	.3	.1										52	52	61	24
44/ 43		1.3	1.8	1.3	1.2	.8	.1											59	59	65	31
42/ 41	.3	.6	2.8	1.6	1.2	.2												60	60	90	38
40/ 39	.4	1.3	1.4	1.0	.4	.2												44	44	70	50
38/ 37		1.8	2.3	1.2	.1	.3												52	52	88	50
36/ 35	.3	2.3	2.1	.7														49	49	66	58
34/ 33	.2	.7	2.1	.6	.2	.1												35	35	72	69
32/ 31		1.6	1.3	.4	.2													32	32	47	89
30/ 29	.2	.6	1.1	.1														18	18	38	69
28/ 27		.4	.6															9	9	24	68
26/ 25		.2	.7															8	8	17	67
24/ 23		.3	.2															5	5	10	42
22/ 21		.3	.8															10	10	8	50
20/ 19		.4	.2															6	6	10	42

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 81 F	≤ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OCT 73 PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

PAGE 2 1800-2000

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
18/ 17		.6	.1															6	6	6	28
16/ 15		.4																4	4	7	17
14/ 13		.3	.1															4	4	4	11
12/ 11		.4																4	4	4	11
10/ 9																				4	13
8/ 7																					6
6/ 5																					9
4/ 3																					5
2/ 1																					2
0/ -1																					1
-2/ -3																					2
TOTAL	1.9	16.4	23.1	15.1	10.7	9.6	8.2	5.9	3.2	2.2	1.0	1.1	.9	.3	.2		.1		900		900
																		900		900	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	< 32 F	> 67 F	> 73 F	> 80 F	> 93 F	Total
Rel. Hum.	3338242	51608	57.3	20.530	900							
Dry Bulb	2096414	41872	46.5	12.846	900		10.6	6.0	2.6	.9	.1	90
Wet Bulb	1482743	35551	39.5	9.341	900		17.9					90
Dew Point	914129	27173	30.2	10.210	900	.3	53.2					90

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM IS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

PAGE 1 — 2100-2300 HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
72/ 71											.1							1	1	
70/ 69										.1	.1							2	2	
68/ 67									.1	.1	.1							3	3	
66/ 65								.2	.1									3	3	
64/ 63			.3		.1	.2		.2	.3		.2							13	13	
62/ 61				.1	.1				.6									7	7	
60/ 59			.3	.2	.4	.1	.4	.3	.1									18	18	3	
58/ 57			.4	.1	.1		.2	.8	.1									16	16		3
56/ 55			.2	.4	.4	.4	.8											21	21	8	
54/ 53		.2	.2	.8	.7	.2	.6	.1										25	25	8	
52/ 51	.1	.2	1.2	.4	.7	.2	.1											27	27	16	8
50/ 49	.2	1.3	1.0	.9	.8	.6	.4											47	47	23	10
48/ 47		.8	.4	.9	1.8	.6	.1											41	41	46	13
46/ 45		1.9	1.1	1.9	1.4	.4	.1											62	62	43	22
44/ 43	.2	2.0	1.9	1.1	.6	.3												55	55	54	33
42/ 41	.6	2.3	1.6	1.8	1.4	.1												70	70	67	33
40/ 39	.9	2.0	3.8	1.4	.9	.1												82	82	71	43
38/ 37	.3	3.1	2.9	1.6	.4													75	75	89	43
36/ 35		2.9	3.8	1.2	.2													73	73	76	50
34/ 33	.6	3.1	2.7	.9	.3													68	68	95	65
32/ 31	.6	3.3	3.2	.8														71	71	78	105
30/ 29		2.0	1.1	.3														31	31	69	78
28/ 27	.2	.6	.4	.3														14	14	48	71
26/ 25		1.3	1.1															22	22	27	76
24/ 23		.4	.6															9	9	18	35
22/ 21		.6	.1															6	6	14	51
20/ 19		1.1																10	10	9	43
18/ 17		.4																4	4	10	30
16/ 15		.7																6	6	4	14
14/ 13		.4																4	4	6	19
12/ 11		.3																3	3	4	14
10/ 9		.7																6	6	4	8
8/ 7		.4																4	4	7	11
6/ 5		.1																1	1	3	4

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 DEC 68 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | APR MONTH

PAGE 2 | 2100-2300 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
4/ 3																				2
2/ 1																				9
0/ -1																				2
-2/ -3																				1
-4/ -5																				2
-6/ -7																				2
TOTAL	3.7	32.3	28.4	15.2	10.4	3.3	2.8	1.7	1.3	.2	.6							900		900
																	900		900	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4424148	61068	67.8	17.680	900							
Dry Bulb	1547238	36056	40.1	10.691	900		19.1	.6				90
Wet Bulb	1223819	32189	35.8	8.989	900		30.1					90
Dew Point	866505	26351	29.3	10.278	900	.7	57.7					90

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — APR MONTH

PAGE 1 — ALL HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
98/ 97																	.0	1	1	
96/ 95																	.0	3	3	
94/ 93																.0	.0	2	2	
92/ 89															.0			1	1	
88/ 87														.0	.0			3	3	
86/ 85												.0		.0	.0			4	4	
84/ 83												.0		.0	.1			10	10	
82/ 81											.0	.0	.0	.2				18	18	
80/ 79									.0	.0		.0	.1	.1				19	19	
78/ 77								.0	.0	.1		.0	.1	.0				21	21	
76/ 75							.0	.0	.0	.0	.1	.1	.2					27	27	
74/ 73							.1	.0	.0	.0	.1	.3	.0					38	38	
72/ 71							.0	.0	.0	.2	.1	.2	.0					41	41	
70/ 69					.0	.1	.0	.0	.1	.2	.1	.0						48	48	
68/ 67					.1	.1	.1	.1	.3	.2	.1							58	58	
66/ 65				.1	.1	.1	.2	.3	.2	.2	.1							98	98	
64/ 63			.1	.1	.2	.2	.2	.2	.3	.2	.1							107	107	15	
62/ 61		.0	.1	.1	.2	.3	.2	.4	.3	.2	.0							128	128	26	
60/ 59		.0	.2	.2	.3	.4	.4	.4	.3	.1								157	157	44	1
58/ 57	.0	.1	.2	.2	.3	.4	.5	.5	.4									194	194	49	7
56/ 55	.0	.1	.3	.3	.6	.6	.7	.4	.0									222	222	107	29
54/ 53	.1	.1	.3	.7	.5	.6	.7	.3	.0									237	237	162	39
52/ 51	.1	.3	.8	.4	.8	.7	.6	.2										272	272	193	64
50/ 49	.2	.5	.6	.7	.8	.8	.6	.1										320	320	214	80
48/ 47	.1	.7	.8	1.0	1.0	.8	.4	.0										351	351	332	98
46/ 45	.1	.9	1.1	1.1	1.2	.6	.2	.0										397	397	356	150
44/ 43	.1	1.5	1.4	1.3	.6	.4	.0											392	392	419	175
42/ 41	.3	1.6	2.1	1.4	.8	.1												461	461	553	270
40/ 39	.8	1.6	2.0	1.2	.5	.2	.0											483	483	547	329
38/ 37	.6	2.2	2.2	1.4	.2	.1												479	479	637	381
36/ 35	.3	2.6	2.7	1.1	.1	.0												489	489	534	438
34/ 33	.4	2.6	2.8	.8	.1	.0												484	484	618	476
32/ 31	.4	3.4	2.9	.6	.0													527	527	549	709
30/ 29	.5	2.1	1.7	.2														316	316	565	591

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-8 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | APR MONTH

 ALL HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
28/ 27	.2	1.7	.7	.1														194	194	379	576
26/ 25	.0	1.1	.9	.0														153	153	273	615
24/ 23		.6	.4															75	75	151	382
22/ 21		.5	.6															76	76	103	433
20/ 19		.6	.3	.0														67	67	71	434
18/ 17		.4	.2															45	45	68	225
16/ 15		.4	.1															35	35	50	148
14/ 13	.0	.4	.0															34	34	37	118
12/ 11		.3	.0															25	25	39	84
10/ 9		.2	.0															18	18	22	73
8/ 7		.3	.0															21	21	19	61
6/ 5	.0	.1																11	11	26	50
4/ 3		.2																12	12	7	29
2/ 1	.0	.2																13	13	15	35
0/ -1	.1																	10	10	17	17
-2/ -3	.0																	1	1	1	17
-4/ -5																					19
-6/ -7																					24
-8/ -9																					9
-10/-11																					4
-12/-13																					2
-14/-15																					4
-16/-17																					2
TOTAL	4.4	27.4	26.0	13.4	8.4	6.5	4.9	3.3	2.1	1.3	.7	.6	.5	.3	.2	.0	.1	7198	7198	7198	7198

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	32253051	459743	63.92	0.035	7198							
Dry Bulb	13935732	302080	42.01	3.222	7198	1.1	163.3	29.4	14.7	5.2	.6	720
Wet Bulb	10359709	263365	36.61	0.027	7198	1.8	239.3					720
Dew Point	6835959	208397	29.01	0.559	7198	9.8	466.2					720

USAFETAC FORM 0-26 1 OCT 68

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 1 0000-0200 HOURS (L.S.T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75											.1							1	1			
74/ 73											.1							1	1			
72/ 71				.1	.1			.1		.2								5	5			
70/ 69				.2		.3		.2	.3									10	10			
68/ 67			.4	.2		.2	.1	.3	.1									13	13			
66/ 65		.2	.2	.3	.8	.1	.1	.5	.1									22	22	2		
64/ 63		.6	.1	.8	.2	.2		.2	.2									22	22	9	2	
62/ 61	.1	.8	.5	1.1	.5		.5	.1										34	34	10	7	
60/ 59		.5	1.2	1.1	.4	1.1	.2	.4	.1									47	47	23	17	
58/ 57		1.8	1.1	.8	.6	.4	.2	.5										51	51	26	5	
56/ 55		2.6	1.9	.9	.5	.2	.9	.1										66	66	57	32	
54/ 53		1.4	2.9	1.2	1.0	1.1	.3											73	73	58	40	
52/ 51		1.0	1.8	1.9	1.2	1.3	.4											71	71	50	41	
50/ 49	.2	1.4	3.8	2.2	1.1	1.3	.2											94	94	63	46	
48/ 47		1.4	1.9	1.2	1.6	1.1	.1											68	68	60	42	
46/ 45		2.0	2.0	.9	.9	.2												56	56	90	38	
44/ 43		.4	2.3	.9	.4	.4												41	41	80	51	
42/ 41		1.4	2.9	.8	1.1	.1												58	58	62	71	
40/ 39	.1	1.4	3.2	.9	.6													58	58	74	53	
38/ 37		.6	2.4	1.1	.3													41	41	75	53	
36/ 35		1.1	1.0	1.2	.2													32	32	38	60	
34/ 33	.1	.6	1.9	.4														29	29	54	59	
32/ 31	.1	.8	1.0	.2	.1													20	20	38	61	
30/ 29			.4															4	4	32	58	
28/ 27		.2	.3	.2														7	7	10	46	
26/ 25		.3	.1															4	4	8	40	
24/ 23		.1																1	1	8	21	
22/ 21		.1																1	1	2	36	
20/ 19																				1	18	
18/ 17																					19	
16/ 15																					6	
14/ 13																					4	
12/ 11																					1	
10/ 9																					3	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 (3-74) Previous editions are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

PAGE 2 0000-0200 HOUR

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
TOTAL	.620	.933	.418	.311	.7	8.1	3.1	2.6	.9	.2	.2							930	930	930

Element X	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs	Mean No. of Hours with Temperature < 0 F	< 32 F	< 67 F	> 73 F	> 80 F	> 93 F	Total
Re. Hum.	4522841.	62939.	67.7	16.837	930							
Dry Bulb	2319980.	45584.	49.0	9.603	930		3.7	3.0	.2			93
Wet Bulb	1873349.	40920.	44.0	8.856	930		9.9					93
Dew Point	1452050.	35300.	38.0	10.988	930		31.3					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 1 0300-0500 HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
72/ 71									.1									1	1			
70/ 69				.1					.1									2	2			
68/ 67			.2					.4										6	6			
66/ 65		.2	.1		.1	.1	.2											7	7			
64/ 63		.6		.5	.5		.2	.1										19	19	5		
62/ 61		1.0	.5	1.0	.6	.3	.2											34	34	11		4
60/ 59	.1	.9	1.3	.4	.8	.8	.1											40	40	13		14
58/ 57		.5	.6	.3	.2	.3	.2	.1										22	22	19		10
56/ 55	.1	2.8	1.3	.9	.5		.3	.1										56	56	40		12
54/ 53		2.9	2.3	1.1	1.3	.4	.3											77	77	49		37
52/ 51		2.5	1.5	1.0	.5	1.4												64	64	58		40
50/ 49		1.3	3.5	1.0	1.3	.3												69	69	60		47
48/ 47	.2	2.4	1.9	1.5	2.9	.9												91	91	52		46
46/ 45		2.5	1.9	1.9	.9	.3												70	70	79		42
44/ 43	.2	1.9	3.0	1.1	.5	.2												65	65	73		56
42/ 41	.1	1.1	1.9	.6	.3													38	38	73		65
40/ 39		2.6	4.2	.6	.2													71	71	78		48
38/ 37		.8	1.4	1.0	.1													30	30	79		63
36/ 35		1.6	3.1	1.5														58	58	50		54
34/ 33	.1	.8	3.0	.8														43	43	39		47
32/ 31		.8	2.3	.3														31	31	50		79
30/ 29		.9	1.0	.1														18	18	44		58
28/ 27		.3	.3	.1														7	7	29		42
26/ 25		.1	.2															3	3	14		44
24/ 23		.4																4	4	4		30
22/ 21		.1																1	1	7		38
20/ 19	.1	.2																3	3	2		20
18/ 17																				2		17
16/ 15																						5
14/ 13																						6
12/ 11																						3
10/ 9																						1
8/ 7																						2

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 83 F	≤ 93 F	Total
Rel. Hum.											
Dry Bulb											
Wet Bulb											
Dew Point											

USAFETAC FORM 0-24-1 OLA (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

PAGE 2 0300-0500

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
TOTAL	1.0	29.0	35.7	15.8	10.9	5.1	1.6	.8	.2									930	930
																		930	930

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4943722	66364	71.4	14.965	930							
Dry Bulb	2093232	43240	46.5	9.441	930		6.7	.9				93
Wet Bulb	1743810	39394	42.4	8.992	930		15.2					93
Dew Point	1394007	34579	37.2	10.797	930		34.5					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 MAY

PAGE 1 0600-0800

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B.	W.B	Dry Bulb	Wet Bulb	Dew Point	
76/ 75									.1									1	1				
74/ 73						.1	.1	.1	.1									4	4				
72/ 71				.2	.1		.1			.2	.1							7	7				
70/ 69				.3	.1		.1	.1										6	6				
68/ 67			.2	.3	.5	.2	.4	.1	.2									19	19				
66/ 65			.6	.2	.3	.5	.1	.4										21	21	2			
64/ 63		.5	.5	.5	.4	.2	.3		.2									26	26	9			
62/ 61		.9	1.4	.6	1.1	.3	.2	.2	.1									45	45	17	6		
60/ 59		1.2	1.6	1.0	.8	.6	.6	.4										58	58	26	19		
58/ 57		1.3	.9	1.0	1.4	.4	.5	.2										53	53	41	21		
56/ 55	.1	2.2	1.7	1.0	1.3	.6	1.2											75	75	45	33		
54/ 53	.1	1.2	2.5	2.0	.9	.5	.3											70	70	58	39		
52/ 51		1.7	2.8	1.2	.9	1.1	.2											73	73	65	29		
50/ 49		1.5	1.5	1.0	1.5	.9	.1											60	60	70	52		
48/ 47	.1	1.9	2.0	2.3	1.3	.4												75	75	76	60		
46/ 45	.1	1.5	2.4	1.3	.6	.2	.1											58	58	73	50		
44/ 43		1.3	3.4	1.3	1.2													67	67	71	60		
42/ 41		.8	2.7	1.3	.6													50	50	77	55		
40/ 39		1.5	3.5	1.2	.3													61	61	72	52		
38/ 37		.4	1.2	1.2	.3													29	29	67	61		
36/ 35		.6	1.4	.6	.1													26	26	48	67		
34/ 33	.1	.5	.9	.3	.1													18	18	39	65		
32/ 31		.4	1.0	.2														15	15	30	65		
30/ 29		.1	.5	.1														7	7	18	51		
28/ 27		.1	.1	.1														3	3	12	40		
26/ 25		.2																2	2	7	34		
24/ 23																				3	19		
22/ 21		.1																1	1	2	19		
20/ 19																					16		
18/ 17																					7		
16/ 15																					4		
14/ 13																					5		
10/ 9																					1		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Pressure												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

 0600-0800

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	.520	.032	.919	.213	.9	6.2	4.5	1.6	.8	.2	.1							930	930	930	930

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum	4562253	63453	68.2	15.838	930							
Dry Bulb	2411182	46538	50.0	9.417	930		2.8	3.7	.5			93
Wet Bulb	1953690	41860	45.0	8.652	930		7.2					93
Dew Point	1535606	36514	39.3	10.477	930		26.1					93

USAFETAC FORM 0-26-3 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 1 0900-1100

Temp. °F	WET BULB TEMPERATURE DEPRESSION (°F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dew Point
88/ 87										.1			.1		.1			3	3	
86/ 85										.1			.1		.1			3	3	
84/ 83										.2		.2		.1	.1			6	6	
82/ 81							.1		.3	.2	.1	.1	.2	.1				11	11	
80/ 79						.1	.2	.1	.2	.1		.1	.3					11	11	
78/ 77					.1	.1	.2	.5	.1	.2	.1	.3	.1					17	17	
76/ 75					.5	.4	.3	.3	.3	.2	.1	.3						24	24	
74/ 73					.3	.4	.3	.8	.5		.4							26	26	
72/ 71				.5	.5	.5	.3	.5	.6	.3	.4	.1						37	37	
70/ 69			.3	.5	.2	.4	1.0	.8	1.1	.6	.4							50	50	4	
68/ 67			.3	.4	1.1	1.3	1.0	.6	.5	.3	.1							53	53	15	
66/ 65		.1	.6	.2	1.3	.9	.9	.5	.8	.3	.1							53	54	24	4
64/ 63		.4	.6	.9	.6	1.0	1.3	.6	.9	.6								65	65	28	7
62/ 61		.5	.4	.3	1.2	1.6	.9	1.0	.9	.1								64	64	34	24
60/ 59		.1	.6	1.0	1.0	1.2	.4	.8	.5									52	52	51	21
58/ 57		1.1	1.0	.8	1.0	.6	1.0	.5	.2									57	57	62	22
56/ 55	.2		.6	.5	1.8	.8	.8	.8										51	51	71	34
54/ 53		.6	1.5	1.4	.6	.8	.9	.4										58	58	74	35
52/ 51		.6	1.5	.5	.8	1.4	.6											51	51	76	46
50/ 49		.5	1.8	1.0	.9	.8	.3	.1										50	50	80	47
48/ 47		.5	.9	1.4	1.4	.5	.3	.1										48	48	76	47
46/ 45		1.0	1.1	1.2	.8	.5												42	42	68	56
44/ 43		.5	1.4	.6	.3	.1	.1											29	29	58	63
42/ 41		.3	1.8	.5	.1	.2												28	28	62	82
40/ 39			.8	.8	.1	.3												18	18	58	47
38/ 37			.4	.6	.1													11	11	31	53
36/ 35			.3	.2	.1													6	6	22	54
34/ 33			.3															3	3	15	50
32/ 31			.1															1	1	9	76
30/ 29			.1															1	1	8	45
28/ 27																				3	21
26/ 25																					32
24/ 23																					23
22/ 21																					19

Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 72 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

 0900-1100 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
20/ 19																			9
18/ 17																			2
16/ 15																			3
14/ 13																			6
12/ 11																			4
TOTAL	.2	6.5	16.7	13.5	14.9	14.0	10.9	8.5	7.0	3.6	1.8	1.2	.9	.2	.3			930	929
																		929	929

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3096639	50711	54.6	18.814	929							
Dry Bulb	3324837	54649	58.8	11.055	930		.2	24.1	10.1	2.9		93
Wet Bulb	2374315	46273	49.8	8.653	929		2.0	1.9				93
Dew Point	1653859	37833	40.7	11.041	929		24.0					93

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

PAGE 1 1200-1400 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
96/ 95																	.3	3	3			
94/ 93																	.1	1	1			
92/ 91															.1			1	1			
90/ 89													.1	.1	.2	.2		6	6			
88/ 87											.3		.1	.1	.1	.4		10	10			
86/ 85								.2	.2	.1	.5	.2		.2	.5			19	19			
84/ 83							.2	.2	.1	.5	.2	.1		.9				21	21			
82/ 81						.1	.2	.2	.4	.5	.4	.2	.3	.3				26	26			
80/ 79							.1	.5	.2	.5	.1	.2	.9					24	24			
78/ 77						.2	.8	.3	.6	1.0	.4	.5	.3					39	39			
76/ 75					.2	.1	.4	.8	1.1	.9	.3	.4	.3					42	42			
74/ 73				.2	.6	.6	.4	.3	.6	.6	.3	.6						42	42			
72/ 71				.1	.4	.8	.5	1.1	1.4	.6	.6	.3	.1					56	56	6		
70/ 69			.1	.4	.4	.4	.9	1.2	2.3	.5	.5	.2						65	65	6		
68/ 67			.3	.2	.1	.5	1.3	.6	.8	1.1	.4							50	50	19		
66/ 65		.1	.5	.2	.6	.6	1.3	1.0	.5	1.3	.3							61	61	41	6	
64/ 63			.1	.1	.4	1.0	1.7	.5	.9	.5								49	49	44	8	
62/ 61		.3	.1	.2	.6	.5	.6	.8	.9	.3								41	41	45	19	
60/ 59		.6	.4	.4	.9	1.0	.9	.8	1.0	.2								57	57	63	22	
58/ 57		.4	.6	.1	.4	1.5	.4	.9	.5									46	46	63	33	
56/ 55		.2	1.1	.8	.9	.6	1.0	.5	.6									53	53	90	25	
54/ 53		.2	1.1	1.0	.8	.9	1.2	.2	.1									50	50	83	33	
52/ 51		.3	1.2		.9	.8	.4	.2										35	35	75	33	
50/ 49		.5	.6	.5	.1	.5		.3										25	25	72	51	
48/ 47		.1	.2	.6	.6	.5		.1										21	21	81	54	
46/ 45		.6	1.2	.3	.9	.3	.3											34	34	55	59	
44/ 43		.3	1.2	.6	.1	.2												23	23	56	62	
42/ 41		.1	.2	.4	.3	.2												12	12	45	61	
40/ 39			.6	.3														9	9	30	58	
38/ 37				.5														5	5	21	62	
36/ 35			.3	.1														4	4	13	45	
34/ 33																				16	46	
32/ 31																				6	59	
30/ 29																					63	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-25 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 2 — 1200-1400 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
28/ 27																			29
26/ 25																			29
24/ 23																			17
22/ 21																			25
20/ 19																			13
18/ 17																			4
16/ 15																			6
14/ 13																			5
12/ 11																			3
TOTAL	4.0	10.0	7.3	9.4	11.5	12.7	10.8	12.3	8.8	4.6	2.9	2.2	1.6	1.0	.6	.4		930	930
																		930	930

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel Hum.	2326833	42871	46.1	19.426	930							
Dry Bulb	3945436	59532	64.0	17.038	930			40.5	23.4	9.4	.4	93
Wet Bulb	2585162	48396	52.0	8.473	930		.6	3.1				93
Dew Point	1638836	37616	40.4	11.240	930		25.3					93

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 1 — 1500-1700 HOURS (LST)

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
98/ 97																	.1	1	1		
96/ 95																	.3	3	3		
94/ 93																	.2	2	2		
92/ 89														.1	.3	.2	.2	8	8		
88/ 87										.1	.4	.2	.2	.2	.2	.4		17	17		
86/ 85								.4	.1	.5	1.0	.4		.1	.4			28	28		
84/ 83									.1	.2	.4	.3	.1	.6	.2			19	19		
82/ 81								.2	.8	.4	.4	.5	.2	.3	.2			29	29		
80/ 79					.1		.1	.2	.6	.6	.6	.3	.6	.3	.1			35	35		
78/ 77							.3	.5	.9	.4	.5	.1	.9					33	33		
76/ 75				.1	.1	.1	.6	.9	1.0	.5	.2	.4	.2					39	39		
74/ 73				.2	.4	.4	.2	.6	1.6	1.1	1.6	.4	.6					68	68	1	
72/ 71			.1	.3	.4	.5	.8	1.0	.9	1.4	.5	.3						58	58	5	
70/ 69			.2	.4	.6	.3	.4	1.1	.8	1.0	1.0	.6						60	60	5	1
68/ 67			.4	.2	.3	.4	.6	.5	.6	.5	1.1							45	45	17	2
66/ 65			.2	.3	.4	.6	1.7	.8	1.5	.8	.6							65	65	45	5
64/ 63			.4	.8	.9	.9	.9	1.2	.9	.5	.1							60	60	55	3
62/ 61			.2	.8	.6	.9	1.4	.5	1.2	.9								60	60	46	14
60/ 59		.3	.2		.1	1.5	.9	.6	.1	.5								40	40	69	20
58/ 57		.4	.6	.6	.6	1.0	.4	.6	.4	.2								47	47	75	31
56/ 55			.5	.6	1.3	.5	1.3	.5										45	45	77	39
54/ 53		.3	1.3	.5	.2	1.1	.3	.2	.1									38	38	93	32
52/ 51		.1	.6	.1	.1	.4	.3	.3										19	19	65	40
50/ 49		.3	.4	.6		.2	.1											16	16	103	49
48/ 47		.1	.2	.8	.5	.3	.5											23	23	65	49
46/ 45		.5	1.2	.5	1.0	.9	.3											41	41	89	63
44/ 43		.1	.6	.4	.1	.2												14	14	86	59
42/ 41			.2	.2														4	4	39	51
40/ 39			.3	.3														6	6	19	70
38/ 37		.1		.4														5	5	25	50
36/ 35		.1	.1															2	2	20	50
34/ 33																				9	43
32/ 31																				2	59
30/ 29																					39

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

PAGE 2 1500-1700 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
28/ 27																			37
26/ 25																			39
24/ 23																			20
22/ 21																			21
20/ 19																			18
18/ 17																			13
16/ 15																			8
14/ 13																			1
12/ 11																			3
10/ 9																			1
TOTAL	2.5	8.1	8.4	8.0	10.3	11.3	10.3	11.5	9.8	8.6	3.8	2.8	1.7	1.5	.6	.9		930	930
																		930	930

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2095292	40358	43.4	19.241	930							
Dry Bulb	4147197	61105	65.7	11.935	930			44.5	28.2	12.8	.6	93
Wet Bulb	2695932	49012	52.7	8.232	930		.2	2.8	.1			93
Dew Point	1621647	37397	40.2	11.453	930		25.9	.3				93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

PAGE 1 1800-2000 HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
96/ 95																	.1	1	1			
92/ 91																.1		1	1			
90/ 89														.1		.1		2	2			
88/ 87														.2	.2			4	4			
86/ 85								.1			.1		.1	.2	.1			6	6			
84/ 83								.1	.2	.1	.3	.2		.3				12	12			
82/ 81							.1		.2	.5	.3		.3	.1				15	15			
80/ 79						.1		.3	.8	.5	.1	.4	.3	.1				25	25			
78/ 77							.4	.4	.6	.2	.3	.2	.6					27	27			
76/ 75						.5	.3	1.0	.5	.9		.3	.1					34	34			
74/ 73						.2	1.1	1.0	.5	.5	.3	.4	.2					40	40	1		
72/ 71			.3		.3	.3	.5	.6	1.2	.8	.9	.2						44	44	1		
70/ 69			.1	.1	.3	.9	.8	1.2	1.1	.5	.9	.1						55	55	4		
68/ 67		.1	.3	.4	.4	.4	.9	1.1	.9	.3	.3	.1						49	49	8	4	
66/ 65		.1	.4	.6	.4	.9	1.1	.9	.6	1.2	.8							65	65	20		
64/ 63		.2	.3	1.0	.8	1.2	1.5	.6	.8	.8	.1							67	67	39	5	
62/ 61		.1	.4	1.0	1.0	1.3	1.6	1.0	1.1	.5								74	74	57	7	
60/ 59		1.1	.5	.6	.3	1.2	.6	.4	.8	.2								54	54	50	19	
58/ 57		.6	1.1	.6	1.2	.9	.4	1.2	.6	.1								63	63	76	31	
56/ 55		.5	.9	.8	1.6	1.2	1.0	.1	.3									59	59	72	36	
54/ 53		.2	1.0	1.0	.6	.4	.4	.3	.1									38	38	95	49	
52/ 51			.9	.3	.4	1.3	.6	.3										36	36	79	36	
50/ 49		.2	1.0	1.0	.3	.6	.3											32	32	81	59	
48/ 47		.8	.8	.8	.8	.2	.4											34	34	72	40	
46/ 45		.5	.8	.6	.6	.5	.2											31	31	66	43	
44/ 43		.3	.8	.6	.4	.3	.1											24	24	60	70	
42/ 41		.1	.4	.6	.3													14	14	44	66	
40/ 39			.3	.6	.1	.2												12	12	39	71	
38/ 37			.2	.6														8	8	19	52	
36/ 35		.1	.2															3	3	21	54	
34/ 33																				16	40	
32/ 31	.1																	1	1	10	52	
30/ 29																					35	
28/ 27																					40	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) MAY (MONTH)

 1800-2000

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
26/ 25																					45
24/ 23																					13
22/ 21																					17
20/ 19																					22
18/ 17																					14
16/ 15																					5
14/ 13																					3
12/ 11																					2
TOTAL	.1	5.1	10.6	11.4	10.0	12.7	12.5	10.6	10.3	7.2	4.0	2.0	1.7	1.1	.3	.2	.1	930	930	930	930

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2579622	45844	48.9	19.659	930							
Dry Bulb	3674012	57532	61.9	11.123	930		.1	31.5	16.7	5.3	.1	93
Wet Bulb	2986092	47478	51.1	8.187	930		1.0	1.9	.1			93
Dew Point	1616709	37350	40.2	11.207	930		24.8	.9				93

USAFETAC FORM 0-26-3 OLA Previous Editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 MAY

STATION STATION NAME YEARS MONTH

PAGE 1 2100-2300

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
86/ 85														.1				1	1			
80/ 79												.2						2	2			
78/ 77								.1				.2						3	3			
76/ 75					.1	.2			.2		.3							8	8			
74/ 73					.3	.2	.1		.3	.2	.1							12	12			
72/ 71				.1	.1	.3	.3	.2	.2	.1	.1							14	14			
70/ 69		.1			.3	.6	.6	.3	.4	.2	.2							27	27			
68/ 67			.1	.3	.8	.8	.2	.5	.2	.1	.1							29	29	3	1	
66/ 65		.2	.5	.4	1.0	.2	.4	.4	.2	.4								36	36	5		
64/ 63		.6	.4	1.7	.8	.4	.5	.5	.3									50	50	11	6	
62/ 61		.3	.8	.3	.6	.6	1.5	.1	.6	.1								47	47	24	3	
60/ 59		.8	1.2	1.5	.9	.6	.5	1.0	.8									67	67	36	16	
58/ 57	2.2	1.9	.9	1.6	1.0	1.0	.2	.3										84	84	66	14	
56/ 55	1.7	2.0	1.1	1.0	1.1	1.1	.8	.2										83	83	60	44	
54/ 53	1.0	1.2	2.2	1.4	1.0	.8	.6											75	75	65	55	
52/ 51	.8	1.7	2.0	1.3	.6	1.0	.2											71	71	70	40	
50/ 49	.8	2.6	1.5	.1	1.2	.1												58	58	67	49	
48/ 47	1.1	1.1	1.0	.5	.4	.1												39	39	80	40	
46/ 45	1.3	1.6	1.2	1.1	.4	.2												54	54	106	48	
44/ 43	.4	1.7	1.5	1.0	.6													49	49	63	61	
42/ 41	.2	2.6	1.3	.3	.2													43	43	56	70	
40/ 39	.2	.9	.8	.3														20	20	65	59	
38/ 37	.1	.6	.5	.2	.1													15	15	47	62	
36/ 35	.2	.5	1.3	.4	.2													25	25	32	55	
34/ 33			.6	.2														8	8	34	43	
32/ 31			.3	.3														6	6	19	44	
30/ 29			.2	.1														3	3	11	50	
28/ 27			.1															1	1	4	38	
26/ 25																				5	44	
24/ 23																				1	22	
22/ 21																					28	
20/ 19																					10	
18/ 17																					12	
16/ 15																					10	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 3 OCT 68 (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | MAY MONTH

 2100-2300 HOUR

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
14/ 13																						3
12/ 11																						3
TOTAL	.2	12.3	23.5	19.4	13.9	10.8	8.5	5.1	3.9	1.2	.9	.4		.1				930		930		930
																		930		930		

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	3778624	56686	61.0	18.660	930							
Dry Bulb	2801299	50229	54.0	9.757	930		1.0	9.6	2.6	.2		93
Wet Bulb	2131829	43832	47.1	8.427	930		4.0	.3				93
Dew Point	1563669	36721	39.5	11.065	930		26.4	.1				93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — MAY MONTH

 ALL

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B	Dry Bulb	TOTAL Wet Bulb	Dew Point
98/ 97																.0	1	1		
96/ 95																.1	7	7		
94/ 93																.0	3	3		
92/ 91														.0	.0		2	2		
90/ 89												.0	.0	.1	.1	.0	16	16		
88/ 87									.0	.1	.0	.1	.1	.1	.1		34	34		
86/ 85							.1	.0	.1	.2	.1	.0	.1	.1			57	57		
84/ 83						.0	.0	.1	.1	.1	.1	.0	.2	.0			58	58		
82/ 81					.0	.1	.1	.2	.2	.2	.1	.1	.1	.0			81	81		
80/ 79				.0	.0	.1	.1	.2	.2	.1	.2	.3	.1	.0			97	97		
78/ 77				.0	.0	.2	.2	.3	.2	.2	.2	.2					119	119		
76/ 75			.0	.1	.2	.2	.4	.4	.3	.1	.2	.1					149	149		
74/ 73			.1	.2	.3	.3	.3	.5	.3	.4	.2	.1					193	193	2	
72/ 71		.1	.2	.3	.3	.3	.4	.6	.5	.3	.1	.0					222	222	12	
70/ 69	.0	.1	.3	.3	.4	.5	.6	.8	.4	.4	.1						275	275	19	1
68/ 67	.0	.3	.3	.4	.5	.6	.5	.4	.3	.3	.0						264	264	62	7
66/ 65	.1	.4	.3	.6	.5	.7	.6	.5	.5	.2							330	331	139	15
64/ 63	.4	.3	.8	.6	.6	.8	.5	.5	.3	.0							358	358	200	31
62/ 61	.0 .5	.6	.7	.8	.7	.9	.5	.6	.2								399	399	244	84
60/ 59	.0 .7	.9	.8	.6	1.0	.5	.6	.4	.1								415	415	331	148
58/ 57	1.0	1.0	.6	.9	.8	.5	.5	.3	.0								423	423	428	167
56/ 55	.1 1.3	1.3	.8	1.1	.6	.9	.4	.1									488	488	512	255
54/ 53	.0 1.0	1.7	1.3	.8	.8	.6	.2	.0									479	479	575	320
52/ 51	.9	1.5	.9	.8	1.0	.5	.1										420	420	538	305
50/ 49	.0 .8	1.9	1.1	.7	.7	.1	.1										404	404	596	400
48/ 47	.0 1.0	1.1	1.2	1.2	.6	.2	.0										399	399	564	378
46/ 45	.0 1.3	1.5	1.0	.8	.4	.1											386	386	586	399
44/ 43	.0 .7	1.8	.9	.5	.3	.0											312	312	507	482
42/ 41	.0 .5	1.6	.7	.4	.1												247	247	458	521
40/ 39	.0 .7	1.7	.7	.2	.1												255	255	435	458
38/ 37	.3	.8	.8	.1	.0												144	144	364	453
36/ 35	.0 .5	1.0	.5	.1													156	156	244	439
34/ 33	.0 .2	.8	.2	.0													101	101	222	393
32/ 31	.0 .2	.6	.1	.0													74	74	164	495

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 83 F	≤ 91 F	≤ 93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 MAY

PAGE 2 ALL

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1	2	3	4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
30/ 29			.1	.3	.0															33	33	113	399
28/ 27			.1	.1	.1															18	18	58	293
26/ 25			.1	.0																9	9	34	307
24/ 23			.1																	5	5	16	165
22/ 21			.0																	3	3	11	203
20/ 19	.0		.0																	3	3	3	126
18/ 17																						2	88
16/ 15																							47
14/ 13																							33
12/ 11																							19
10/ 9																							6
8/ 7																							2
TOTAL	.3	12.5	21.4	14.2	11.6	9.8	8.1	6.3	5.8	3.9	2.5	1.3	.9	.6	.4	.2	.2			7440		7439	
																				7439		7439	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	27905826.	428826.	57.62	20.696.	7439							
Dry Bulb	24717175.	418409.	56.21	12.631.	7440		14.5	157.8	81.7	30.6.	1.1	744
Wet Bulb	17794169.	357165.	48.0	9.318.	7439		40.1	9.5.	.2.			744
Dew Point	12876378.	293260.	39.41	1.094.	7439		218.3	.8				744

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

 0000-0200

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
79/ 77					.1		.2											3	3		
76/ 75					.1		.3	.1										5	5		
74/ 73		.3		.1			.4											8	8	3	
72/ 71		.3	.1	.7	.2	.1	.2											15	15	2	5
70/ 69		.2	.6	.3	.2	.7												18	18	2	1
68/ 67		.6	.8	.2	1.2	1.0	.4											38	38	8	1
66/ 65		1.0	.6	.7	1.2	.4	.7											41	41	19	11
64/ 63	.2	1.6	1.1	.9	1.6	1.0												57	57	28	19
62/ 61	.6	2.0	2.8	2.3	.8	.2												78	78	37	28
60/ 59		2.1	1.9	1.3	.8	.4												59	59	56	24
58/ 57	.4	2.7	3.4	1.7	1.2		.1											86	86	82	46
56/ 55	.3	4.4	4.7	2.6	1.0													117	117	94	58
54/ 53	.7	4.4	3.3	2.6	.7	.1												106	106	110	75
52/ 51	.1	3.7	3.3	1.2	.4	.1												80	80	110	114
50/ 49	.3	2.1	2.3	2.0	.1													62	62	96	101
48/ 47	.1	2.6	2.2	1.0														53	53	78	67
46/ 45		2.0	2.1	.2														39	39	59	84
44/ 43		.8	.7															13	13	48	61
42/ 41		.6	.6	.2														14	14	36	66
40/ 39	.2	.3																5	5	11	55
38/ 37			.1															1	1	7	30
36/ 35			.1															1	1	1	19
34/ 33																				2	6
32/ 31																					4
30/ 29																					3
28/ 27																					1
TOTAL	3.0	31.9	30.7	18.0	9.7	4.1	2.4	.1											899		899
																		899		899	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5532263	69535	77.3	13.093	899							
Dry Bulb	2906544	50700	56.4	7.255	899			8.7	1.6			90
Wet Bulb	2512098	47156	52.5	6.555	899			1.5	.3			90
Dew Point	2211312	44094	49.0	7.356	899		.8	.7				90

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION GRAND FORKS AFB ND STATION NAME 73-82 YEARS JUN MONTH

 0300-0500

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73		.3					.2											5	5	2		
72/ 71				.2	.3		.1											6	6	1		3
70/ 69			.3	.3	.7	.1												13	13			
68/ 67		.7	.1	.3	.2	.3												15	15			
66/ 65		1.6	.6	.6	.3	.1												28	28	15		7
64/ 63		1.1	1.3	1.2	.7	.2												41	41	22		13
62/ 61	.4	1.6	1.7	1.9	.2	.6												57	57	31		22
60/ 59	.3	2.4	2.4	2.3	.4													72	72	40		24
58/ 57	.6	3.6	2.8	2.2	.7	.3												91	91	76		45
56/ 55	1.1	2.8	3.3	2.0	.9													91	91	81		69
54/ 53	.4	5.0	4.3	2.3	.4	.2												115	115	88		59
52/ 51	.6	4.7	3.8	.8	.1													89	89	114		94
50/ 49	.3	3.4	3.2	1.2	.3													77	77	105		93
48/ 47	.1	3.2	2.7	.7														60	60	85		91
46/ 45	.2	3.7	2.1	.2														56	56	80		91
44/ 43		2.8	1.9	.4														46	46	67		64
42/ 41	.1	1.7	.3															19	19	43		80
40/ 39	.2	.7	.4															12	12	33		53
38/ 37	.2	.2	.2															6	6	11		48
36/ 35		.1																1	1	4		26
34/ 33																				2		7
32/ 31																						9
30/ 29																						2
TOTAL	4.7	39.4	31.6	16.8	5.3	1.9	.3												900		900	900
																		900		900		

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5958135	72503	80.6	11.426	900							
Dry Bulb	2680196	48706	54.1	7.023	900			3.9	.5			90
Wet Bulb	2372099	45823	50.9	6.590	900			.3	.2			90
Dew Point	2126186	43250	48.1	7.291	900		1.1	.3				90

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JUN MONTH

PAGE 1 0600-0900

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dew Point
80/ 79						.1												1	1	
78/ 77					.3													3	3	
76/ 75					.2		.1	.1	.1									5	5	
74/ 73		.3	.1	.1	.6	.3		.1										14	14	2
72/ 71			.4	.1	.2	.3	.6	.1										16	16	2
70/ 69		.1	.6	1.0	.6	.6	.4	.3										34	34	5
68/ 67		.2	.6	.6	1.7	.9	.3											38	38	10
66/ 65		1.0	1.3	1.7	2.3	.8	.3											67	67	19
64/ 63		1.6	2.0	1.9	1.8	1.4	.2											80	80	33
62/ 61	.3	3.0	1.9	2.0	1.3	.2	.2											81	81	52
60/ 59	.3	2.0	3.8	3.9	2.0	.4												112	112	90
58/ 57	.4	2.9	3.0	2.2	.9	.3												88	88	100
56/ 55	1.0	3.4	3.9	2.7	.8	.1												107	107	117
54/ 53	.1	3.1	2.8	1.9	.7													77	77	127
52/ 51	.2	2.8	3.0	1.1	.4													68	68	95
50/ 49		2.1	1.8	1.3	.1													48	48	85
48/ 47	.1	1.8	1.1	.1														28	28	66
46/ 45	.1	1.3	.4	.3														20	20	57
44/ 43		.3	.6	.1														9	9	20
42/ 41	.1		.2															3	3	13
40/ 39		.1																1	1	4
38/ 37																				3
36/ 35																				8
34/ 33																				3
32/ 31																				2
TOTAL	2.8	26.1	27.7	21.0	13.9	5.6	2.2	.7	.1									900	900	900
																		900	900	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5303912	68038	75.6	13.357	900							
Dry Bulb	3129837	52717	58.6	6.832	900			11.1	2.3			90
Wet Bulb	2671160	48738	54.2	5.951	900			1.9	.2			90
Dew Point	2336169	45453	50.5	6.728	900		.2	.6				90

USAFETAC FORM 0-26 1 JAN 73

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PAGE 1 0900-1100

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
90/ 89										.1								1	1		
88/ 87												.1						1	1		
86/ 85								.3	.1	.2			.1					7	7		
84/ 83							.1	.2	.3	.1	.1	.1						9	9		
82/ 81							.7	.2	.6	.1	.4							18	18		
80/ 79				.4		.3	.2	1.2	1.1	.3	.2							35	35		
78/ 77			.1	.2	.1	.8	.2	.9	.4	.8	.1	.1						34	34		
76/ 75		.1		.3	.2	1.1	1.0	1.1	.4	.3	.1							43	43	1	
74/ 73				.4	.8	.9	1.4	.9	.9	.2	.1							51	51	5	3
72/ 71		.1	.6	.4	.9	1.2	1.7	.8	.7									57	57	10	3
70/ 69			.6	1.4	1.8	1.6	1.8	1.4	.9									85	85	18	3
68/ 67		.2	1.0	1.4	1.9	2.7	1.2	2.1										95	95	36	5
66/ 65		.6	2.0	2.6	2.9	2.0	.9	.6	.1									104	104	56	21
64/ 63		.9	1.7	1.9	3.1	1.4	.9	.2										91	92	70	24
62/ 61	.1	1.3	1.2	2.4	1.6	1.6	.6	.1										80	80	116	37
60/ 59		.4	1.3	1.3	.8	.4	.2											41	41	128	68
58/ 57	.2	1.3	1.4	1.3	1.3	.4	.1											56	56	97	84
56/ 55	.6	.9	.8	1.0	.4	.1	.2											36	36	138	91
54/ 53		1.1	.6	.8	.7													28	28	86	87
52/ 51		.1	.3	.4	.1													9	9	56	104
50/ 49		.2	.1	.4														7	7	34	98
48/ 47		.3	.3															6	6	20	59
46/ 45		.3																3	3	16	57
44/ 43		.1																1	1	8	62
42/ 41																				1	39
40/ 39																					25
38/ 37																					19
36/ 35																					6
34/ 33																					2
32/ 31																					1
TOTAL	.9	8.1	12.0	17.0	16.6	14.6	11.2	10.1	5.6	2.2	1.1	.3	.1						899		898
																		898		898	

Element	Σx	Σx^2	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 62 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3644268.	55254	61.5	16.509	898							
Dry Bulb	4038746.	59846	66.6	7.814	899			43.6	19.9	5.8		90
Wet Bulb	3078069.	52321	58.3	5.749	898			7.0	.6			90
Dew Point	2473432.	46660	52.0	7.160	898		.1	1.4	.3			90

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

PAGE 1 1200-1400

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
94/ 93													.1					1		1		
92/ 91										.1	.1	.2		.1				5		5		
90/ 89										.4	.1	.4	.2	.1				12		12		
88/ 87								.1	.3	.4	.4	.9	.1	.1				22		22		
86/ 85					.1		.1	.1	.2	.9	.8	.3	.2					25		25		
84/ 83					.1			.6	.7	.6	.6	.4						26		26		
82/ 81			.1	.2	.1		.2	.7	.7	2.0	.6	.2	.1					44		44		
80/ 79					.2	.2	.9	.9	.4	1.6	.7	.3						47		47		
78/ 77		.1			.7	1.3	.9	1.4	.7	1.2	.2							59		59	2	1
76/ 75			.2	.2	1.2	1.2	.6	1.2	1.6	2.2	.1							77		77	4	1
74/ 73		.1	.1	.4	.2	1.6	1.0	2.6	1.7	1.3								81		81	7	3
72/ 71		.2	.3	.2	.7	1.6	2.3	1.2	2.1	.4	.1							83		83	17	4
70/ 69		.2	.1	.7	1.2	1.9	1.7	1.4	.6									70		70	36	4
68/ 67		.4	.1	.9	.7	2.6	2.0	.9	.7									74		74	71	11
66/ 65		.4	1.1	.9	2.1	1.8	1.1	.4	.4									75		75	67	24
64/ 63		.3	.6	.9	1.4	1.6	.8	.6	.1									56		57	91	26
62/ 61	.1	1.1	.6	.7	.9	.7	.8	.2										45		45	97	45
60/ 59	.2	.8	.9	.6	.6	.8		.2										36		36	130	51
58/ 57	.1	.6	1.3	.2	.3	.2	.1											26		26	123	74
56/ 55	.1	.6	.4	.2	.4		.1											17		17	109	68
54/ 53			.2	.4	.1													7		7	64	75
52/ 51			.1	.1														2		2	26	112
50/ 49		.1	.1	.1														3		3	30	100
48/ 47		.4																4		4	14	56
46/ 45																					9	74
44/ 43																						62
42/ 41																						42
40/ 39																						33
38/ 37																						13
36/ 35																						8
34/ 33																						7
32/ 31																						3
TOTAL	.6	5.5	6.4	6.8	11.1	15.4	12.6	12.6	10.1	11.3	3.7	2.9	.8	.3				897		898	897	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2758682	47212	52.6	17.480	897							
Dry Bulb	4626932	64004	71.3	8.520	898			62.7	40.2	15.8	.1	90
Wet Bulb	3260029	53825	60.0	5.808	897			13.7	1.3			90
Dew Point	2447715	46349	51.7	7.677	897		.3	2.4	.5			90

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JUN MONTH

PAGE 1 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-31	≥31	TOTAL D.B. & W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93													.1					1	1		
92/ 91										.1	.3	.3	.2	.4				13	13		
90/ 89									.2	.6	.4	.3	.3	.1				18	18		
88/ 87										.3	.8	.9	.6		.1			24	24		
86/ 85				.1	.2			.1	.3	1.0	.6	.9		.2				31	31		
84/ 83				.1	.1	.2		.6	.7	.8	.6	.9	.2					37	37		
82/ 81					.4		.6	1.0	.3	1.6	.4	.2	.1					42	42		
80/ 79				.1	.2	.1	.6	.6	1.0	1.6	1.0	.4	.2					61	61	1	
78/ 77				.4	.7	.3	1.3	.6	1.3	2.2	.9							70	70	4	1
76/ 75				.1	.4	.4	.7	2.6	2.1	1.4	.8							77	77	1	1
74/ 73			.1	.6	.3	1.0	1.6	1.9	1.7	1.6	.6							83	83	15	3
72/ 71			.2	.4	.3	1.1	2.1	1.4	2.0	.2	.3							74	74	16	2
70/ 69			.2	.6	1.0	1.0	1.6	1.8	.9									63	63	48	11
68/ 67		.4	1.1	.6	.8	1.4	2.0	1.2	1.0									77	77	55	8
66/ 65		.2	.6	1.0	1.8	1.8	2.1	.4	.7	.2								79	79	68	20
64/ 63		.3	.6	.7	.7	.2	.2		.1									25	25	88	34
62/ 61		.8	.7	.8	.9	1.0	.8	.3										47	47	111	38
60/ 59		.6	1.3	.6		.3	.2	.1										28	28	137	48
58/ 57	.1	.3	1.3	.4	.4	.1												25	25	111	61
56/ 55		.3	.3	.8	.2													15	15	105	63
54/ 53			.1	.1	.2													4	4	67	85
52/ 51			.1															1	1	32	90
50/ 49			.4															4	4	24	94
48/ 47		.1																1	1	14	78
46/ 45																				3	82
44/ 43																					49
42/ 41																					57
40/ 39																					28
38/ 37																					21
36/ 35																					10
34/ 33																					8
32/ 31																					8
TOTAL	.1	3.1	7.1	7.3	8.8	10.1	13.7	12.6	12.3	11.6	6.7	4.0	1.8	.8	.1			900	900	900	900

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2486306	44660	49.6	17.336	900							
Dry Bulb	4807629	65313	72.6	8.688	900			67.1	45.7	19.6	.1	90
Wet Bulb	3295431	54207	60.2	5.829	900			14.0	2.1			90
Dew Point	2408969	46002	51.1	8.008	900		.8	2.6	.5			90

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JUN MONTH

PAGE 1 — 1800-2000 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
92/ 91											.1							1	1		
90/ 89											.1		.2					3	3		
88/ 97								.1	.1	.4	.1	.3	.1					11	11		
86/ 85							.2	.1	.2	.3	.6	.1		.1				15	15		
84/ 83				.1		.1		.2	.4	.7	.4	.1	.1					20	20		
82/ 81				.1	.1		.3	.7	.3	.8	.4	.1	.1					27	27		
80/ 79			.1	.1	.3	.2	.2	.4	1.3	.6	.7							36	36		
78/ 77			.3	.6	.1	.8	1.3	.8	.9	.8	.6	.2						57	57	2	
76/ 75			.2	.1	.6	.3	.7	1.6	1.4	.8								51	51	2	1
74/ 73			.1	1.1	1.0	1.0	1.6	1.9	2.0	.8	.1							86	86	10	2
72/ 71		.1	.2	.6	.6	1.3	2.2	1.9	1.2	.4	.1							78	78	13	7
70/ 69		.2	.8	.9	.7	2.0	1.1	2.4	.8									80	80	24	11
68/ 67		.6	1.0	1.1	1.7	1.7	1.3	1.4	1.0	.2								90	90	52	7
66/ 65			1.3	1.1	1.6	1.2	1.8	1.0	.7									78	78	60	15
64/ 63		.1	1.2	.9	1.3	1.6	1.3	.4	.2									64	64	77	34
62/ 61		.8	1.8	1.6	1.7	.8	.8	.1										67	67	91	30
60/ 59	.3	1.1	1.3	.7	.4	1.2	.6	.3										54	54	146	61
58/ 57	.2	.6	1.9	.9	.2	.2		.1										37	37	112	57
56/ 55		.4	.7	.4	.4	.2												20	20	104	83
54/ 53	.2	.2	.4	.4		.1	.1											14	14	93	101
52/ 51			.7	.1														7	7	52	82
50/ 49		.2	.1															3	3	34	77
48/ 47		.1																1	1	20	79
46/ 45																				5	71
44/ 43																				2	59
42/ 41																				1	52
40/ 39																					21
38/ 37																					17
36/ 35																					21
34/ 33																					4
32/ 31																					5
28/ 27																					2
24/ 23																					1

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3-DLA (USAFETAC)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 JUN
STATION NAME YEARS MONTH

PAGE 2 1800-2000
HOURS

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	.8	4.4	12.2	10.8	10.7	12.8	13.6	13.6	10.7	5.8	3.2	.9	.6	.1				900	900	900	900

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3071699	50117	55.7	17.677	900							
Dry Bulb	4358766	62216	69.1	8.021	900			55.5	30.7	9.4		90
Wet Bulb	3165159	53109	59.0	5.891	900			10.3	1.4			90
Dew Point	2825428	46158	51.3	8.041	900		.8	2.8	.3			90

USAFETAC FORM 0 26 3 OL A PREV

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JUN MONTH

PAGE 1 — 2100-2300 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81						.2			.2	.1								5	5			
80/ 79					.1		.2	.1		.1								5	5			
78/ 77			.1		.1	.2	.2	.6	.3	.2								16	16			
76/ 75		.1	.2		.2	.1	.4	.3	.1		.1							15	15			
74/ 73		.3	.1	.2	.7	.4	.4			.1								21	21	4	1	
72/ 71		.3	.2	.3	.3	.7	.8	.2	.3									29	29	9	4	
70/ 69		.2	1.1	.3	1.0	1.7	.9	.6										52	52	6	6	
68/ 67		.6	1.0	.9	1.2	1.8	.7	.7	.1									64	64	16	7	
66/ 65	.2	1.1	1.6	1.9	1.9	1.6	.4	.1										79	79	37	14	
64/ 63	.1	.9	2.0	2.0	1.3	1.3	1.0	.1										79	79	36	27	
62/ 61		1.9	2.2	1.7	2.4	1.0	.6	.1										89	89	65	13	
60/ 59	.1	1.8	2.9	2.3	1.8	1.2	.3	.1										95	95	91	53	
58/ 57	.1	2.6	3.8	2.1	2.0	.7	.1											102	102	97	47	
56/ 55	.3	2.6	2.4	1.7	1.6	.3												80	80	134	93	
54/ 53	.6	2.1	1.3	1.9	.8	.2												62	62	116	103	
52/ 51		1.7	1.4	1.3	.9	.1												49	49	93	97	
50/ 49		.8	2.1	.7	.1													33	33	60	91	
48/ 47		.8	.3	.4														14	14	66	77	
46/ 45				.2	.1													3	3	40	66	
44/ 43		.3	.2		.1													6	6	17	50	
42/ 41		.1		.1														2	2	6	66	
40/ 39																				2	29	
38/ 37																				2	27	
36/ 35																				1	17	
34/ 33																					9	
28/ 27																					1	
26/ 25																					2	
TOTAL	1.4	18.3	23.1	18.1	16.7	11.6	6.1	2.9	1.1	.6	.1								900		900	
																		900		900		

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4592432	62754	69.7	15.529	900							
Dry Bulb	3407717	54987	61.1	7.322	900			20.7	6.2	.7		90
Wet Bulb	2786105	49761	55.3	6.223	900			3.5	.4			90
Dew Point	2384088	45822	50.5	7.583	900		.3	1.8	.1			90

USAFETAC FORM 0-26-3 OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUN (MONTH)

 ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
94/ 93													.0					2	2		
92/ 91										.0	.1	.1	.0	.1				19	19		
90/ 89									.0	.1	.1	.1	.1	.0				34	34		
88/ 87								.0	.1	.2	.2	.3	.1	.0	.0			58	58		
86/ 85				.0	.0		.0	.1	.1	.3	.2	.2	.0	.0				78	78		
84/ 83				.0	.0	.0	.0	.2	.3	.3	.2	.2	.0					92	92		
82/ 81			.0	.0	.1	.0	.2	.3	.3	.6	.2	.1	.0					136	136		
80/ 79			.0	.1	.1	.3	.3	.4	.5	.5	.3	.1	.0					185	185	1	
78/ 77		.0	.1	.2	.3	.4	.5	.5	.5	.7	.2	.0						242	242	8	2
76/ 75		.0	.1	.1	.4	.4	.5	.9	.7	.6	.1							273	273	8	3
74/ 73		.2	.1	.4	.4	.7	.8	.9	.8	.5	.1							349	349	48	12
72/ 71		.1	.3	.4	.4	.8	1.3	.7	.8	.1	.1							358	358	70	31
70/ 69		.1	.6	.7	.9	1.2	.9	1.0	.4									415	415	139	36
68/ 67		.5	.7	.8	1.2	1.5	1.0	.8	.3	.0								491	491	248	42
66/ 65	.0	.7	1.1	1.3	1.8	.2	.9	.3	.2	.0								551	551	341	123
64/ 63	.0	.8	1.3	1.3	1.5	1.1	.6	.2	.1									493	495	445	194
62/ 61	.2	1.6	1.6	1.7	1.2	.8	.5	.1										544	544	602	242
60/ 59	.2	1.4	2.0	1.6	.8	.6	.2	.1										497	497	818	381
58/ 57	.3	1.8	2.4	1.4	.9	.3	.1	.0										511	511	798	466
56/ 55	.4	1.9	2.1	1.4	.7	.1	.0											483	483	882	612
54/ 53	.3	2.0	1.6	1.3	.4	.1	.0											413	413	751	665
52/ 51	.1	1.6	1.6	.6	.3	.0												305	305	578	807
50/ 49	.1	1.1	1.3	.7	.1													237	237	468	766
48/ 47	.0	1.2	.8	.3														167	167	363	608
46/ 45	.0	.9	.6	.1	.0													121	121	279	614
44/ 43		.5	.4	.1	.0													75	75	162	471
42/ 41	.0	.3	.1	.0														38	38	102	447
40/ 39	.1	.1	.1															18	18	50	270
38/ 37	.0	.0	.0															7	7	23	197
36/ 35		.0	.0															2	2	6	115
34/ 33																				4	46
32/ 31																					32
30/ 29																					5
28/ 27																					4

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — JUN MONTH

 ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
26/ 25																						2
24/ 23																						1
TOTAL	1.8	17.1	18.8	14.5	11.6	9.5	7.8	6.6	5.0	3.9	1.8	1.0	.4	.2	.0			7194	7196		7194	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	33347697	470373	65.3	19.129	7194							
Dry Bulb	29956367	458489	63.7	10.169	7196			273.4	146.9	51.3	.2	720
Wet Bulb	23140150	404940	56.3	6.942	7194			52.2	6.5			720
Dew Point	18770290	363388	50.5	7.592	7194		4.4	12.6	1.7			720

USAFETAC FORM 0-26-3-DLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 JUL

PAGE 1 0000-0200

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
84/ 83								.1										1	1		
82/ 81						.1												1	1		
80/ 79					.1		.4	.1										6	6		
78/ 77					.4			.1										5	5		
76/ 75		.2	.3	.6	.2	.4	.1	.3										21	21		
74/ 73		.2	.2	.5	.1		.1	.2										13	13	4	1
72/ 71		1.1	1.1	.9	.3	.2	.3											36	36	13	5
70/ 69	.2	1.2	2.3	1.6	1.1	.9	.1											68	68	27	16
68/ 67	.5	1.5	3.2	.9	1.1	.8	.1	.1										76	76	47	34
66/ 65	.5	2.8	3.9	2.8	1.3	.3	.1											109	109	48	36
64/ 63	.4	4.7	5.2	2.9	.5	.2												130	130	91	42
62/ 61	.2	4.8	3.4	2.8	.5													110	110	123	84
60/ 59	.3	4.1	4.7	1.0	.5													99	99	130	115
58/ 57	.3	2.4	3.9	1.5	.5													80	80	114	100
56/ 55	.2	2.2	2.6	1.4														59	59	98	106
54/ 53		2.0	2.3	1.0														49	49	75	94
52/ 51		1.5	1.7	.1														31	31	61	95
50/ 49		1.6	.5	.1														21	21	46	53
48/ 47		1.1	3															13	13	34	73
46/ 45			.2															2	2	16	44
44/ 43																				2	19
42/ 41																				1	8
40/ 39																					5
TOTAL	2.8	31.4	35.8	18.1	6.8	2.9	1.3	1.0											930		930
																		930		930	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 62 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	6054647	74317	79.9	11.170	930							
Dry Bulb	3644095	57905	62.3	6.457	930			22.7	4.7	.4		93
Wet Bulb	3214287	54397	58.5	5.917	930			9.1	.4			93
Dew Point	2932531	51869	55.8	6.532	930			5.6	.1			93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 JUL
STATION STATION NAME MONTH

 0300-0500
HOUR (LST)

Temp. °F	WET BULB TEMPERATURE DEPRESSION °F 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
80/ 79						.1												1	1		
76/ 75				.6	.1													7	7		
74/ 73			.2	.3	.1	.3	.1											10	10		
72/ 71		1.2	.8	.2	.2	.4												26	26	6	3
70/ 69		1.5	1.7	1.2	.4	.1												46	46	24	11
68/ 67	.4	1.1	2.5	1.0	1.2	.3												60	60	29	25
66/ 65	.6	2.7	2.9	1.5	1.2		.1											84	84	41	29
64/ 63	.6	5.1	3.1	1.5	.3		.1											100	100	80	42
62/ 61	.9	6.3	2.9	2.4	.4													120	120	96	70
60/ 59	.3	4.9	5.1	.9	.5													109	109	114	101
58/ 57	.9	2.9	3.7	1.7	.3													88	88	117	107
56/ 55	.4	3.5	4.3	1.5	.1													92	92	99	88
54/ 53		4.1	2.6	.8														69	69	85	68
52/ 51		3.1	.5															34	34	98	99
50/ 49		2.0	1.6	.2														36	36	55	85
48/ 47		2.0	1.1															29	29	33	71
46/ 45	.1	1.2	.3															15	15	30	49
44/ 43		.1																1	1	18	28
42/ 41		.3																3	3	3	19
40/ 39																				2	11
38/ 37																					4
TOTAL	4.3	42.2	33.2	13.8	4.9	1.3	.3												930		930
																		930		930	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	6466699.	76999.	82.8	9.930	930							
Dry Bulb	3385650	55784	60.0	6.526	930			15.0	1.8			93
Wet Bulb	3048821	52937	56.9	6.188	930			5.9				93
Dew Point	2817238	50806	54.6	6.700	930			3.9				93

USAFETAC FORM 0-26 (OL-A) 8-74

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

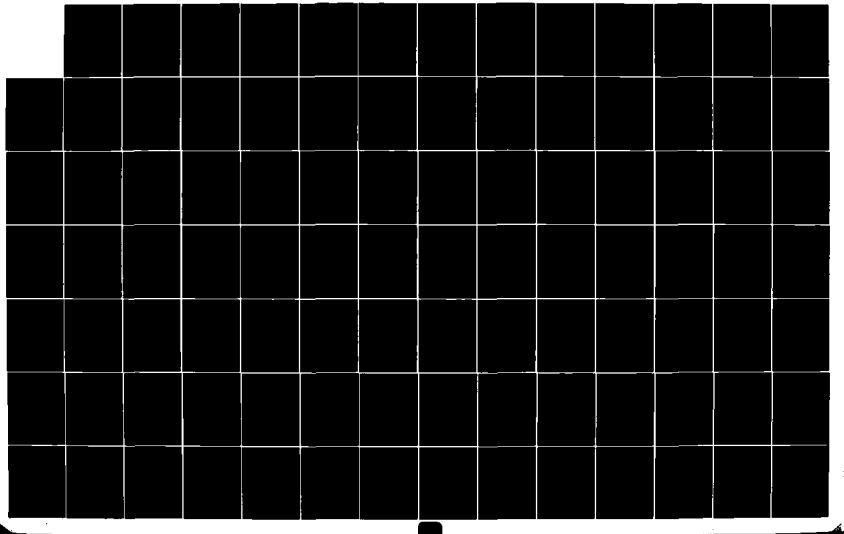
727575 GRAND FORKS AFB ND 73-82 JUL

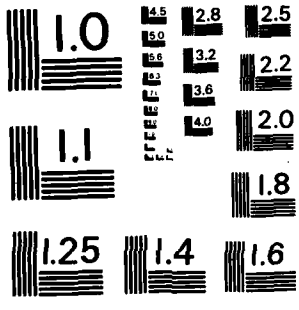
PAGE 1 0600-0800

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry B.	TOTAL Wet B.	TOTAL Dew P.
84/ 83								.1										1	1			
82/ 79				.1	.1	.1		.1										4	4			
78/ 77				.2	.2	.3	.3											10	10			
76/ 75			.2	.5	.9	.2	.5											22	22			
74/ 73		.2	.3	1.7	.3	.9	.1	.1										34	34	3		
72/ 71	.1	.8	1.3	1.5	1.7	.6	.4	.1										61	61	14	5	
70/ 69		2.2	2.9	1.7	2.5	.8	.2	.2										99	99	28	20	
68/ 67	.5	1.2	4.0	2.2	1.5	.9												95	95	61	29	
66/ 65	.3	2.2	4.6	3.4	1.6	.4	.2											119	119	69	39	
64/ 63	.5	3.2	2.4	3.2	1.2	.3												101	101	125	63	
62/ 61	.3	4.7	3.3	2.8	1.0	.5												118	118	129	109	
60/ 59	.3	2.9	4.0	1.6	.5													87	87	120	110	
58/ 57	.2	1.9	3.8	1.0	.4													68	68	113	101	
56/ 55	.3	2.7	2.2	1.0														57	57	98	108	
54/ 53		1.1	1.1	.1														21	21	75	93	
52/ 51		1.2	.4															15	15	54	103	
50/ 49		.5	.1															6	6	21	62	
48/ 47		.6	.5															11	11	9	42	
46/ 45		.1																1	1	9	22	
44/ 43																				2	16	
42/ 41																					5	
40/ 39																					2	
38/ 37																					1	
TOTAL	2.7	25.5	31.1	21.3	11.9	5.1	1.8	.6											930			930
																		930		930		

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs	Mean No. of Hours with Temperature < 0 F	< 32 F	< 57 F	< 73 F	< 80 F	< 90 F	Total
Rel. Hum	5755990	72334	77.8	11.328	930							
Dry Bulb	3843590	59510	64.0	6.189	930			32.6	7.1	.3		93
Wet Bulb	3340065	55501	59.7	5.475	930			10.6	.3			93
Dew Point	3020727	52693	56.7	6.154	930			5.4				93

AD A131 893 GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF 5/6
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83
UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

PAGE 1 | 0900-1100 HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93											.1							1	1		
92/ 91											.1	.1						2	2		
90/ 89								.1	.1	.5								7	7		
88/ 87						.1	.1	.2	.1	.2		.1						8	8		
86/ 85						.1	.3	.3	.4	.5	.1	.1						18	18		
84/ 83					.5	.4	.4	.5	.4	.2	.1	.1	.1					27	27		
82/ 81				.4	.5	1.1	.9	1.2	.4	.6								48	48		
80/ 79				.9	.9	1.8	1.2	1.8	1.1	.6	.3							80	80		
78/ 77			.3	.8	1.4	1.7	2.3	1.7	.5	.4								85	85	3	
76/ 75		.1	.5	2.0	1.8	2.8	1.4	2.2	.5	.1								107	107	12	1
74/ 73		.3	1.1	2.0	1.5	2.8	2.4	1.4	.6									113	113	38	6
72/ 71	.1	.4	1.1	2.3	1.8	1.3	2.6	.4	.1									94	94	57	24
70/ 69		.3	1.7	1.8	1.8	1.8	.8	.9	.2									87	87	89	36
68/ 67			2.0	1.7	2.4	1.9	.9	.8										90	90	95	51
66/ 65		.9	1.4	1.7	1.3	.8		.2										58	58	133	63
64/ 63		1.0	1.3	1.8	1.5	.6	.3											61	61	135	68
62/ 61		.4	1.0	.6	.6	.4												29	29	121	108
60/ 59	.1	.4	.1	.5	.2													13	13	107	98
58/ 57		.1		.1														2	2	66	100
56/ 55																				39	98
54/ 53																				28	88
52/ 51																				7	60
50/ 49																					50
48/ 47																					33
46/ 45																					18
44/ 43																					12
42/ 41																					8
40/ 39																					6
38/ 37																					2
TOTAL	.2	4.0	10.5	16.8	16.3	17.7	13.4	11.7	4.6	3.3	.8	.4	.1						930		930
																		930		930	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3711612	57160	61.5	18.615	930							
Dry Bulb	4990457	67859	73.0	6.480	930			76.7	49.6	15.5	.1	93
Wet Bulb	3838143	59517	64.0	5.213	930			29.4	5.3			93
Dew Point	3196182	54136	58.2	6.951	930			11.8	.7			93

USAFETAC FORM 0 26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

 1200-1400 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
100/ 99														.1		.1		2	2		
98/ 97													.1					1	1		
96/ 95											.2	.2		.1				5	5		
94/ 93									.1	.5	.4	.5	.2					17	17		
92/ 91							.1	.3	.3	.4	.1	.2	.8					21	21		
90/ 89							.2	.5	.6	.3	.3	.8	.4	.2				32	32		
88/ 87					.2	.2	.6	.3	.8	.1	.3	.4	.2	.1	.1			32	32		
86/ 85					.3	.6	1.1	1.2	1.1	.8	1.0	.5	.1					62	62		
84/ 83				.2	.5	.5	1.7	2.4	.8	1.4	1.0	.4						83	83		
82/ 81				.5	.6	.8	2.5	1.2	1.6	2.0	1.2	.3						100	100		
80/ 79			.2	.3	.8	.8	1.3	1.5	2.2	1.9	.6							89	89	5	
78/ 77		.2	.9	.2	.9	1.5	1.6	2.6	1.3	1.2	.3							99	99	15	
76/ 75		.2	.2	.6	1.3	2.8	2.0	1.7	1.8	.8								107	107	48	11
74/ 73		.1	.2	1.2	2.0	.9	1.5	.9	1.2	.6	.1							81	81	62	23
72/ 71			.1	.6	1.1	1.3	1.3	.8	1.0									57	57	72	20
70/ 69			.6	1.5	1.0	1.1	1.1	.1	.2									52	52	78	34
68/ 67	.3		.8	.8	1.2	.8	1.0	.2										46	46	101	56
66/ 65		.1	.3	.6	.2	.5	.2											19	19	142	59
64/ 63		.3	.3	.2	.8	.3												18	18	133	74
62/ 61			.2	.1	.1													4	4	109	90
60/ 59																				80	82
58/ 57	.1	.2																3	3	43	56
56/ 55																				34	95
54/ 53																				8	83
52/ 51																					58
50/ 49																					80
48/ 47																					55
46/ 45																					23
44/ 43																					10
42/ 41																					12
40/ 39																					6
38/ 37																					3
TOTAL	.4	1.2	3.9	7.0	11.0	12.0	16.2	13.7	12.9	10.1	5.6	3.4	1.8	.5	.1	.1		930		930	
																		930		930	

Element (X)	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2707818	48184	51.8	15.070	930							
Dry Bulb	5729490	72690	78.2	7.184	930			88.6	73.1	39.8	2.5	93
Wet Bulb	5084575	61115	65.7	5.529	930			38.1	13.0	.1		93
Dew Point	3179795	53887	57.9	7.862	930			14.9	3.9			93

669 052

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71 USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
102/101																.1		1	1		
100/ 99														.2	.1			3	3		
98/ 97													.2		.1			3	3		
96/ 95											.4	.5	.1					10	10		
94/ 93								.1	.4	.5	.8	.4	.2	.1				24	24		
92/ 91							.3	.1	.1	.3	.5	.6	.3	.4	.4			30	30		
90/ 89						.2	.2	.2	1.0	.5	1.0	.5	.3	.5				42	42		
88/ 87					.1	.4	.1	1.6	1.0	.4	.1	.8		.1	.2			45	45		
86/ 85				.1	.2	.4	.6	.6	.9	1.3	1.1	.1	.2	.1				53	53		
84/ 83				.2	.3	.9	1.8	1.3	1.6	1.4	1.5	1.0	.1					94	94		
82/ 81			.2	.4	1.0	1.2	1.5	1.2	3.2	3.0	1.3	.8						128	128		
80/ 79			.1	.6	.2	.8	1.5	2.2	1.6	2.3	.8							93	93	13	
78/ 77			.3	.3	.8	.9	2.0	2.6	1.5	1.9	.5							101	101	16	3
76/ 75		.1	.1	.1	1.3	1.8	1.3	1.1	1.7	1.3	.3							85	85	35	18
74/ 73	.1		.2	.9	1.2	1.1	1.0	1.0	.3	.6	.2							61	61	76	7
72/ 71	.1			1.2	1.2	1.1	1.7	1.0	.1	.2								61	61	73	22
70/ 69	.1		.4	.2	.5	1.4	1.3	.1										38	38	71	35
68/ 67		.1	.6	.1	.3	.2	1.2											24	24	122	48
66/ 65		.1	.8	.4	.5	.4	.1											22	22	159	62
64/ 63		.1	.4		.2													7	7	124	52
62/ 61		.1	.1															2	2	107	92
60/ 59		.2		.1														3	3	90	78
58/ 57																				37	77
56/ 55																				24	93
54/ 53																				3	76
52/ 51																					74
50/ 49																					65
48/ 47																					58
46/ 45																					38
44/ 43																					9
42/ 41																					7
40/ 39																					9
38/ 37																					7

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71 USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
TOTAL	.3	.8	3.3	4.7	7.8	10.8	14.7	13.0	13.4	13.9	8.5	4.7	1.5	1.5	.9	.1		930	930	930	930

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2818768	65316	68.7	18.915	930							
Dry Bulb	5947552	74070	79.6	7.206	930			89.6	77.3	49.5	4.1	93
Wet Bulb	4079738	61388	66.0	5.451	930			38.6	14.0	.5		93
Dew Point	3133808	53870	57.9	7.981	930			13.3	2.8			93

USAFETAC FORM 0-26-3-OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
98/ 97														.1				1	1		
96/ 95												.1						1	1		
94/ 93									.1			.1	.1					3	3		
92/ 91								.2	.2	.3	.1	.2						10	10		
90/ 89						.2	.2	.3	.2	.1	.2	.2		.1				15	15		
88/ 87						.3	.5	.3	.4	.2	.2	.1	.4	.1				25	25		
86/ 85				.1	.1	.3	.5	1.1	1.0	.3	.3	.3	.1					39	39		
84/ 83			.1	.1	.4	.6	.8	.8	.4	.6	.6	.1						43	43		
82/ 81			.5	.1	1.0	1.0	2.3	1.1	1.2	1.1	.6	.5						87	87		
80/ 79		.1	.3	.6	1.4	1.4	1.0	1.5	1.4	1.0	.9	.1						90	90	5	
78/ 77			.6	.6	1.0	1.4	2.5	2.0	1.2	.9								95	95	18	2
76/ 75		.1	.5	.8	1.0	2.3	1.4	1.8	2.0	.4								96	96	21	13
74/ 73		.1	.2	1.5	2.0	2.4	1.8	1.2	1.5	.3								103	103	60	11
72/ 71	.1	.2	.5	1.5	1.6	2.4	2.6	.9	.4	.4								99	99	59	26
70/ 69		.1	1.5	1.5	2.2	1.4	1.0	.3	.3									77	77	75	35
68/ 67		.1	1.4	1.2	1.3	1.4	1.3	.2										64	64	84	53
66/ 65	.1		1.0	1.7	1.3	.9	.2	.1										49	49	134	56
64/ 63		.2	.8	.2	.5	.1												17	17	136	61
62/ 61		.2	.1	.2	.5	.1												11	11	119	94
60/ 59		.1		.3														4	4	115	87
58/ 57			.1															1	1	56	86
56/ 55																				35	97
54/ 53																				13	64
52/ 51																					71
50/ 49																					51
48/ 47																					58
46/ 45																					38
44/ 43																					15
42/ 41																					6
40/ 39																					5
38/ 37																					1
TOTAL	.2	1.3	7.7	10.5	14.3	16.1	16.0	11.8	10.4	5.7	3.0	1.8	.6	.3				930	930		930
																		930		930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3148757	52229	56.2	15.091	930							
Dry Bulb	5357263	70307	75.6	6.734	930			84.8	60.8	27.9	.5	93
Wet Bulb	3938973	60309	64.8	5.493	930			32.2	10.4	.3		93
Dew Point	3177980	53888	57.9	7.729	930			14.0	2.6			93

669 052

USAFETAC FORM 0-26-3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) JUL (MONTH)

 2100-2300 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
86/ 85							.1		.2									3	3		
84/ 83				.2	.1	.1	.1	.3		.2								10	10		
82/ 81				.1	.1	.2	.3		.3									10	10		
80/ 79				.1	.6	.3	.2	.3		.2								17	17		
78/ 77		.3	.1	.4	1.4	.6		.1	.3									31	31	4	1
76/ 75		.3	.1	1.1	.8	.1	.1	.3	.2									28	28	5	4
74/ 73	.1	.8	1.2	1.9	1.1	.4	.6	.4										61	61	13	6
72/ 71		.5	1.5	2.3	2.7	.5	.6	.2										78	78	25	9
70/ 69	.2	1.6	2.8	3.1	2.8	.9	1.1	.2										118	118	65	29
68/ 67	.3	1.2	4.6	3.1	1.4	.5	.3		.1									108	108	58	46
66/ 65		1.8	3.5	4.3	2.5	1.3	.1											126	126	90	47
64/ 63	.1	1.8	2.7	3.2	2.6	.4	.2											103	103	118	78
62/ 61	.2	1.7	2.4	2.4	1.3	.3												77	77	130	100
60/ 59		1.7	2.4	1.4	1.1	.1												62	62	111	94
58/ 57		.5	2.5	1.5	.2													44	44	110	101
56/ 55		.3	1.5	.6	.3													26	26	78	99
54/ 53		.5	1.1	.1														16	16	56	65
52/ 51		.8	.2															9	9	42	75
50/ 49		.1	.1															2	2	18	78
48/ 47		.1																1	1	7	59
46/ 45																					25
44/ 43																					8
42/ 41																					5
40/ 39																					1
TOTAL	1.0	14.2	26.7	25.9	18.9	5.9	3.9	1.9	1.2	.4								930	930		930
																		930		930	

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5126166	68038	73.2	12.686	930							
Dry Bulb	4170202	61982	66.6	6.501	930			46.4	16.0	3.1		93
Wet Bulb	3509720	56880	61.2	5.764	930			17.0	2.2			93
Dew Point	3108672	53398	57.4	6.780	930			9.5	1.1			93

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

PAGE 1 | ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101																.0		1	1		
100/ 99														.0	.0	.0		5	5		
98/ 97													.0	.0	.0			5	5		
96/ 95											.1	.1	.0	.0				16	16		
94/ 93								.0	.1	.1	.2	.1	.1	.0				45	45		
92/ 91							.1	.1	.1	.1	.1	.1	.1	.1	.1			63	63		
90/ 89						.1	.1	.1	.2	.2	.2	.2	.1	.1				96	96		
88/ 87					.0	.1	.2	.3	.3	.1	.1	.2	.1	.0	.0			110	110		
86/ 85				.0	.1	.2	.3	.4	.4	.4	.3	.1	.1	.0				175	175		
84/ 83			.0	.1	.2	.3	.6	.7	.4	.5	.4	.2	.0					259	259		
82/ 81			.1	.2	.4	.5	.9	.6	.8	.8	.4	.2						374	374		
80/ 79		.0	.1	.3	.5	.7	.7	.9	.8	.8	.3	.0						380	380	23	
78/ 77		.1	.3	.3	.8	.8	1.1	1.1	.6	.6	.1							426	426	56	6
76/ 75		.1	.3	.8	.9	1.3	.9	.9	.8	.3	.0							473	473	121	47
74/ 73	.0	.2	.5	1.3	1.0	1.1	1.0	.6	.5	.2	.0							476	476	256	54
72/ 71	.1	.5	.8	1.3	1.3	1.0	1.2	.4	.2	.1								512	512	319	114
70/ 69	.1	.9	1.7	1.6	1.5	1.0	.7	.2	.1									585	585	457	216
68/ 67	.3	.6	2.4	1.4	1.3	.8	.6	.2	.0									563	563	577	342
66/ 65	.2	1.3	2.3	2.1	1.2	.6	.1	.0										586	586	816	391
64/ 63	.2	2.1	2.0	1.6	1.0	.3	.1											537	537	942	480
62/ 61	.2	2.3	1.7	1.4	.6	.2												471	471	934	747
60/ 59	.1	1.8	2.0	.7	.4	.0												377	377	867	765
58/ 57	.2	1.0	1.7	.7	.2													286	286	656	728
56/ 55	.1	1.1	1.3	.6	.1													234	234	505	784
54/ 53		1.0	.9	.2														155	155	343	651
52/ 51		.8	.4	.0														89	89	262	635
50/ 49		.5	.3	.0														65	65	140	524
48/ 47		.5	.2															54	54	83	449
46/ 45	.0	.2	.1															18	18	55	257
44/ 43		.0																1	1	22	117
42/ 41		.0																3	3	4	70
40/ 39																				2	45
38/ 37																					18

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | JUL MONTH

PAGE 2 | ALL HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	1.5	15.1	19.0	14.8	11.5	9.0	8.5	6.7	5.3	4.2	2.2	1.3	.5	.3	.1	.0		7440	7440	7440	7440

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	35382057	494577	66.5	18.350	7440							
Dry Bulb	37068299	520107	69.9	9.766	7440			856.9	290.9	136.5	7.2	744
Wet Bulb	29010322	462048	62.1	6.519	7440			180.9	45.6	.9		744
Dew Point	28566533	424147	57.0	7.207	7440			77.9	10.7			744

USAFETAC FORM 0-26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 U52

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

 0000-0200 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
90/ 89											.1							1	1		
88/ 87										.1								1	1		
86/ 85									.1									1	1		
84/ 83						.1												1	1		
82/ 81					.1			.1										2	2		
80/ 79				.1	.1		.1		.1									4	4		
78/ 77					.1	.2	.2	.1										6	6		
76/ 75				.2	.2	.3		.1										8	8		
74/ 73			.2	.2	.2		.1											7	7	3	
72/ 71			.8	.5	.8	.4												23	23	3	1
70/ 69		.3	1.9	.8	.6	.4		.1										39	39	8	2
68/ 67		1.1	2.9	1.5	.5	.4												60	60	27	7
66/ 65		2.0	3.2	1.1	.6	.3	.2											70	70	40	26
64/ 63		1.9	2.3	1.8	.5	.3												64	64	76	28
62/ 61		2.8	3.8	2.4	1.4	.6												102	102	63	71
60/ 59	.1	4.4	4.7	1.4	1.1													109	109	73	68
58/ 57		3.5	5.2	2.2	.3													104	104	115	73
56/ 55		4.5	4.1	1.3	.2													94	94	113	99
54/ 53		2.6	3.9	1.4	.1													74	74	110	93
52/ 51		1.7	1.9	.8														41	41	94	102
50/ 49	.2	.6	3.4	.8														47	47	61	89
48/ 47	.3	1.4	1.5	.3														33	33	45	82
46/ 45		1.7	.9															24	24	43	53
44/ 43		.2	.5															7	7	39	44
42/ 41	.2	.2	.2															6	6	13	44
40/ 39			.1															1	1	4	27
38/ 37		.1																1	1	1	14
36/ 35																				2	4
32/ 31																					3
TOTAL	.9	29.2	41.5	16.7	7.0	3.2	.6	.4	.2	.1	.1								930		930
																		930		930	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.
Rel. Hum.	5849100	73112	78.6	10.487	930
Dry Bulb	3322133	55151	59.3	7.450	930
Wet Bulb	2901995	51585	55.5	6.618	930
Dew Point	2605878	48788	52.5	7.071	930

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb			15.3	3.1	.8		93
Wet Bulb			4.1	.3			93
Dew Point		.3	1.0				93

FORM 0-26-3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STAT ON) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

 0300-0500 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
86/ 85									.1								1 1		
84/ 83								.1									1 1		
80/ 79							.1										1 1		
78/ 77				.2													2 2		
76/ 75				.3			.1										4 4		
74/ 73				.1	.1	.1	.1										4 4	2	
72/ 71			.3	.1	.3	.1											8 8	1	2
70/ 69		1.0	.5	.2	.2												18 18	6	
68/ 67		.9	2.4	.5	.3												38 38	14	9
66/ 65		2.0	3.1	1.1	.4												62 62	30	14
64/ 63		3.3	2.3	1.2	.9	.2											73 73	46	37
62/ 61		4.3	3.1	1.4	.4	.2											88 88	66	29
60/ 59		4.1	5.3	1.3	.8	.1											107 107	79	71
58/ 57		4.8	3.4	1.5	.1												92 92	109	81
56/ 55		5.4	3.7	1.1													94 94	103	94
54/ 53	.1	5.1	4.0	.5													90 90	90	98
52/ 51	.1	3.5	3.2	.8													71 71	102	98
50/ 49	.1	2.8	3.4	.4													63 63	87	78
48/ 47	.4	1.5	1.7	.1													35 35	58	102
46/ 45	.2	1.9	1.4														33 33	50	63
44/ 43	.2	1.5	.5														21 21	39	35
42/ 41		1.6	.1														16 16	28	53
40/ 39		.5															5 5	14	32
38/ 37		.1															1 1	3	23
36/ 35		.1															1 1	1	7
34/ 33		.1															1 1	1	1
32/ 31																		1	1
30/ 29																			2
TOTAL	1.2	44.6	38.5	10.9	3.5	.8	.3	.1	.1								930		930
																	930	930	

Element (X)	Σ_x'	Σ_x	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	6362315	76481	82.2	8.886	930							
Dry Bulb	3073868	53038	57.0	7.270	930			7.7	1.3	.3		93
Wet Bulb	2754445	50219	54.0	6.777	930		.1	2.3	.2			93
Dew Point	2522830	47978	51.6	7.165	930		.3	1.1				93

FORM 0-26-3-OL-A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | AUG MONTH

PAGE 1 | 0600-0800 HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)														TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 2	28 29 - 30 ≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81							.2									2	2		
80/ 79							.1									1	1		
78/ 77				.1		.1	.1									3	3		
76/ 75				.2				.1								3	3		
74/ 73				.4	.4	.1										9	9		
72/ 71			.2	.1	.4	.2	.1									10	10	1	
70/ 69		.9	1.2	1.2	.8	.2	.2	.1								42	42	8	2
68/ 67		1.6	2.9	1.0	1.2	.6	.2									70	70	19	10
66/ 65		1.8	2.8	2.7	.8	.2	.1									78	78	39	22
64/ 63		2.9	3.4	2.0	.9	.5										91	91	66	32
62/ 61		4.7	4.0	2.9	.5	.2										115	115	73	42
60/ 59	.1	3.2	4.9	2.0	.4	.1										101	101	113	92
58/ 57		5.2	3.2	2.2	.3											101	101	126	87
56/ 55	.2	3.1	3.5	.9	.3											75	75	118	107
54/ 53	.2	3.4	2.7	1.1	.1											70	70	98	112
52/ 51	.1	1.9	2.2	.8												46	46	75	96
50/ 49		1.8	2.6	.6												47	47	58	82
48/ 47	.2	1.4	.9													23	23	49	74
46/ 45		1.6	.4	.1												20	20	43	53
44/ 43		1.0	.2													11	11	21	40
42/ 41		.6	.1													7	7	12	39
40/ 39		.2														2	2	6	28
38/ 37		.1														1	1	2	4
36/ 35		.1														1	1	2	4
34/ 33		.1														1	1		2
32/ 31																		1	1
30/ 29																			1
TOTAL	.9	35.8	35.3	18.3	6.1	2.4	1.1	.2									930		930
																930		930	

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	6030559	74269	79.9	10.389	930							
Dry Bulb	3306924	55072	59.2	7.015	930			14.0	1.8	.2		93
Wet Bulb	2913678	51720	55.6	6.343	930		.1	2.8				93
Dew Point	2638053	49131	52.8	6.765	930		.2	1.2				93

USAFETAC FORM 0 26 3 OL A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

 0900-1100 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
92/ 91												.2						2	2		
88/ 87							.1		.1	.1	.2							5	5		
86/ 85						.1	.2		.3	.1	.1	.1	.1					10	10		
84/ 83								.3	.5	.3	.1	.1						13	13		
82/ 81					.2	.1	.4	.2	.5	.1	.3							18	18		
80/ 79				.1	.3	.4	.8	1.3	.2	.3	.2	.1						35	35		
78/ 77				.2	1.0	1.1	1.1	1.2	.5	.2								49	49		
76/ 75			.1	.4	1.1	1.7	1.1	1.6	.4	.2								62	62	2	
74/ 73			.3	1.8	1.6	1.6	1.6	.8	.3									75	75	8	
72/ 71			.5	1.7	1.7	1.7	2.4	1.2										86	86	15	3
70/ 69		.2	2.9	1.9	2.7	2.2	.9	.3	.1									104	104	31	5
68/ 67		.1	2.4	2.4	2.0	1.9	.8	.3										92	92	76	18
66/ 65		.9	1.8	2.7	2.7	1.0	.8	.1										92	92	107	33
64/ 63		1.1	2.4	1.8	2.4	1.8	1.1											98	98	120	67
62/ 61		.9	1.2	1.3	1.2	1.1	.4											56	56	125	75
60/ 59		.9	.8	1.5	1.1	.5	.1											45	45	130	109
58/ 57		.8	1.1	.5	.9	.3												33	33	87	101
56/ 55		1.6	.2	.1	.6	.2	.1											27	27	74	95
54/ 53	.1	.2	.3	.5	.4	.2												17	17	75	101
52/ 51			.2	.4														6	6	35	87
50/ 49				.1	.1													2	2	18	63
48/ 47		.1																1	1	10	47
46/ 45																				12	50
44/ 43																				2	23
42/ 41																				1	24
40/ 39																					11
38/ 37																					11
36/ 35																					1
34/ 33																					1
32/ 31																					3
TOTAL	.1	6.7	14.2	17.7	20.0	16.1	11.7	7.3	3.1	1.4	1.0	.5	.1					928		928	
																		928		928	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3918502	58782	63.3	14.507	928							
Dry Bulb	4402137	63547	68.5	7.389	928			55.2	27.0	6.1		93
Wet Bulb	3425187	56129	60.5	5.716	928			13.2	1.0			93
Dew Point	2834883	50877	54.8	7.012	928		.3	2.6				93

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

PAGE 1 1200-1400 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
100/ 99															.1	.1		2	2	
98/ 97												.1			.1		.1	3	3	
96/ 95														.3				3	3	
94/ 93										.1			.2	.1				4	4	
92/ 91									.3	.3	.1	.3	.1	.1				12	12	
90/ 89							.1	.3	.4	.3	.5	.8	.1	.2				26	26	
88/ 87							.1	.3	.3	.3	.2	.2	.5	.2				21	21	
86/ 85						.1		.8	.4	1.0	.8	.1	.2					31	31	
84/ 83					.1	.3	.5	1.6	1.9	1.1	.3	.5	.1					61	61	
82/ 81					.3	1.1	1.0	1.8	1.4	1.1	.6	.2	.1					71	71	
80/ 79					.3	1.1	.9	1.7	1.6	1.6	.8	.1						75	75	
78/ 77				.1	1.0	.9	1.8	1.4	1.3	1.0								69	69	2
76/ 75			.1	.6	1.3	1.6	1.3	2.4	.6	.8								81	81	15
74/ 73				.9	1.5	1.7	1.2	1.5	1.2	.4								78	78	19	2
72/ 71			.3	1.5	1.2	.8	2.3	1.7	1.2									83	83	46	3
70/ 69		.1	.6	.8	1.0	1.1	1.3	1.8	.3									65	65	71	15
68/ 67		.2	.8	1.0	.6	1.6	1.8	.8	.3									66	66	100	33
66/ 65		.1	.8	1.2	1.1	1.0	.9	.6	.2									54	54	120	46
64/ 63		1.1	1.1	.6	.3	1.3	1.2	.1										53	53	107	53
62/ 61		.3	.3	.5	.2	.8	.4											24	24	110	70
60/ 59		.2	.3	.2		.2	.3	.1										13	13	105	83
58/ 57		.9	.1	.1	.3	.4	.4	.1										22	22	72	93
56/ 55		.4	.3		.1	.2												10	10	75	62
54/ 53			.1															1	1	38	83
52/ 51			.2															2	2	24	83
50/ 49																				10	61
48/ 47																				12	54
46/ 45																				3	58
44/ 43																				1	50
42/ 41																					20
40/ 39																					21
38/ 37																					10
36/ 35																					3
34/ 33																					4

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3 OL A (JAN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

 1200-1400 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
32/ 31																						2
30/ 29																						1
TOTAL		3.3	5.1	7.5	9.4	14.1	15.5	17.1	11.6	8.0	3.3	2.4	1.4	1.0	.2	.1	.1	930	930	930	930	930

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2744112	48382	52.0	15.635	930							
Dry Bulb	5208494	69146	74.4	8.521	930			75.1	53.7	26.8	1.2	93
Wet Bulb	3669661	58149	62.5	6.036	930			25.3	3.6			93
Dew Point	2814688	50630	54.4	7.925	930		.3	5.3	.2			93

FORM 0 26 3 OL A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

PAGE 1 1500-1700 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101															.1			1	1		
100/ 99												.1	.1	.2	.4			8	8		
98/ 97														.1	.2	.1		4	4		
96/ 95										.1	.2	.3		.1				7	7		
94/ 93									.1	.3	.5	.3	.5	.4				21	21		
92/ 91							.1	.1	.2	.1	.2	.6	.2	.2				17	17		
90/ 89									.1	.6	.4	.5	.3	.1	.2			22	22		
88/ 87							.2	.5	.8	.6	.1		.3	.2				26	26		
86/ 85						.2		.9	1.0	.8	1.2	.3	.2	.2				44	44		
84/ 83						.3	.8	1.0	2.2	1.6	1.2	.3		.1				69	69		
82/ 81						.3	.8	1.2	1.9	1.3	.9	.2						61	61		
80/ 79				.1	.3	.8	.6	1.3	3.2	1.9	1.2	.2						90	90	1	
78/ 77				.3	.4	.5	1.1	1.2	1.5	2.0	.6	.1						73	73	7	
76/ 75				.2	.8	1.4	1.2	1.6	1.7	.8	.1							72	72	16	
74/ 73			.2	1.1	.9	1.9	.9	1.3	2.4	.6								86	86	27	4
72/ 71			.5	1.5	.8	1.3	1.4	1.4	.3									67	67	43	4
70/ 69		.2	.4	.3	.9	1.1	1.4	2.5	.9	.2								73	73	69	7
68/ 67		.5	.8		.9	.5	1.3	.5	.1									43	43	105	34
66/ 65		.2	.3	1.0	.8	.4	.4	.9	.2									39	39	103	40
64/ 63		.9	1.0	.9	.2	.2	.8											36	36	125	48
62/ 61		.8	.4	.6	.1	.8	.3		.1									29	29	87	56
60/ 59			1.0		.1	.5	.3	.2										20	20	130	87
58/ 57		.1	.1			.4	.4											10	10	69	92
56/ 55		.4	.2	.3	.1													10	10	73	92
54/ 53		.2																2	2	28	80
52/ 51																				25	69
50/ 49																				8	59
48/ 47																				11	68
46/ 45																				3	64
44/ 43																					39
42/ 41																					47
40/ 39																					16
38/ 37																					11
36/ 35																					5

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OL-A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

 1500-1700 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
34/ 33																					4
32/ 31																					3
30/ 29																					1
TOTAL		3.3	4.4	5.4	6.9	10.2	11.8	14.5	17.7	11.4	6.7	3.1	1.7	1.7	1.0	.1			930		930
																		930		930	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2838586	45186	48.6	16.049	930							
Dry Bulb	5438297	70617	75.9	9.056	930			78.9	60.1	33.3	9.1	93
Wet Bulb	3700868	58394	62.8	8.081	930			26.8	5.1			93
Dew Point	2758557	50061	53.8	8.025	930		.8	8.9	.4			93

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | AUG MONTH

PAGE 1 | 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
98/ 97														.1				1	1		
96/ 95												.2		.1	.1			4	4		
94/ 93										.2	.1	.1						4	4		
92/ 91									.1	.1	.1	.2	.2					7	7		
90/ 89								.1	.1		.1	.2	.1					6	6		
88/ 87							.2	.3	.2	.4	.3	.2	.1					17	17		
86/ 85					.1	.2	.2	.3	.5	.2	.2	.1	.2					20	20		
84/ 83					.1	.4	.5	.9	.1	.5	.4	.1	.1					30	30		
82/ 81						.3	.4	.4	.5	1.0	.3	.2						30	30		
80/ 79				.4	.4	1.3	.8	1.6	1.6	.9	.1	.2						68	68		
78/ 77			.1	.2	.4	1.0	1.0	1.5	1.1	.8	.2	.1						59	59	3	
76/ 75			.2	.8	1.5	1.6	1.6	1.7	.4	.3	.1							77	77	12	1
74/ 73				1.0	1.5	1.9	1.8	1.8	1.4	.2								90	90	21	2
72/ 71			.6	1.0	1.4	1.5	1.8	1.3	.5									76	76	23	5
70/ 69			1.0	.5	1.8	1.6	1.9	1.0	.8									80	80	51	20
68/ 67		.5	1.7	1.4	1.5	2.2	1.4	.8	.2									90	90	75	18
66/ 65		.1	1.6	1.0	1.8	1.5	1.5	.4	.1									75	75	93	36
64/ 63		1.1	.4	1.2	.9	1.1	.9	.1										52	52	122	56
62/ 61		.6	.8	.8	.8	.8	.3											37	37	114	67
60/ 59		.9	1.3	.5	1.1	.5	.4	.1										45	45	104	85
58/ 57		.2	.9	.4	.3	.2	.3											22	22	98	81
56/ 55		.6	.8	.2	.5	.3												23	23	78	88
54/ 53		.5	.1	.1	.4													11	11	62	85
52/ 51		.1		.2														3	3	34	90
50/ 49				.2														2	2	19	61
48/ 47				.1														1	1	9	77
46/ 45																				9	50
44/ 43																				2	37
42/ 41																				1	29
40/ 39																					20
38/ 37																					10
36/ 35																					7
34/ 33																					4
32/ 31																					1

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | AUG MONTH

PAGE 2 | 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31			
TOTAL		4.7	9.5	10.0	14.6	16.5	15.2	12.4	7.7	4.6	2.0	1.7	.8	.2	.1			930	930	930
																		930		930

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3237858	52846	56.8	15.903	930							
Dry Bulb	4791913	66285	71.3	8.524	930			65.9	41.3	15.5	.9	93
Wet Bulb	3518338	54908	61.2	6.230	930			18.5	3.6			93
Dew Point	2781528	50381	58.1	7.803	930		.1	8.6	.3			93

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) AUG (MONTH)

PAGE 1 2100-2300 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
90/ 89									.1		.1							2	2	
88/ 87								.1										1	1	
86/ 85							.1			.1	.1							3	3	
84/ 83								.2	.1									3	3	
82/ 81					.2	.3		.1			.2							8	8	
80/ 79					.3	.2	.3	.1	.2	.1								12	12	
78/ 77				.2	.1	.4	.2	.1	.3									13	13	
76/ 75			.1	.8	.5	.6	.4	.1	.1									25	25	
74/ 73			.9	1.0	1.2	.6	.4		.2									40	40	6	
72/ 71		.5	.6	1.0	1.3	1.1	.5	.2										49	49	11	
70/ 69		.2	1.6	1.7	2.3	.4	.1											59	59	28	10
68/ 67		.5	1.9	2.2	2.2	1.4	1.1	.1										87	87	40	27
66/ 65		1.3	3.3	2.0	2.3	.5	.5	.3										96	96	45	23
64/ 63		1.2	2.3	2.0	2.4	1.2												94	84	101	36
62/ 61		2.9	1.9	2.9	1.8	.6	.2											97	97	89	66
60/ 59		1.9	3.7	2.0	1.4	.4												88	88	95	84
58/ 57		1.7	3.5	2.4	.5	.4												80	80	96	90
56/ 55		2.6	1.5	1.6	.5													58	58	125	96
54/ 53		.8	1.8	2.5	.5													52	52	88	75
52/ 51	.1	.4	1.7	.8	.5													33	33	65	102
50/ 49	.6	.5	.9	.4														23	23	56	83
48/ 47	.1	.2	.4	.2														9	9	51	71
46/ 45		.1	.3															4	4	15	54
44/ 43		.1	.3															4	4	11	41
42/ 41																				6	33
40/ 39																				2	18
38/ 37																					13
36/ 35																					6
34/ 33																					2
TOTAL	.9	15.1	26.9	23.7	18.1	8.9	4.0	1.4	1.1	.2	.4								930		930
																		930		930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	49489608	666736	71.8	13.152	930							
Dry Bulb	3764087	58731	63.2	7.703	930			30.2	10.7	2.3		93
Wet Bulb	3125618	53576	57.6	6.494	930			8.5	.6			93
Dew Point	2705936	49698	53.4	7.346	930			3.7				93

USAFETAC FORM 0-26 3 OL A (JUN 71) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

669 052

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — AUG MONTH

 — ALL HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
102/101															.0			1	1	
100/ 99												.0	.0	.0	.1	.0		10	10	
98/ 97												.0		.0	.0	.0	.0	8	8	
96/ 95										.0	.0	.1		.1	.0			14	14	
94/ 93									.0	.1	.1	.1	.1	.1				29	29	
92/ 91							.0	.0	.1	.1	.1	.2	.1	.0				38	38	
90/ 89							.0	.1	.1	.1	.2	.2	.1	.0	.0			57	57	
88/ 87							.1	.2	.2	.2	.1	.1	.1	.1				71	71	
86/ 85					.0	.1	.1	.2	.3	.3	.3	.1	.1	.0				110	110	
84/ 83					.0	.1	.2	.5	.6	.4	.3	.1	.0	.0				178	178	
82/ 81					.1	.3	.3	.5	.6	.4	.3	.1	.0					192	192	
80/ 79				.1	.2	.5	.5	.8	.9	.6	.3	.1						286	286	1	
78/ 77			.0	.2	.4	.5	.7	.7	.6	.5	.1	.0						274	274	12	
76/ 75			.1	.4	.7	.9	.7	1.0	.9	.3	.0							332	332	45	1
74/ 73			.2	.8	.9	1.0	.8	.7	.7	.2								389	389	86	8
72/ 71		.1	.4	.8	1.1	.8	1.0	.7	.4	.0								402	402	143	18
70/ 69		.4	1.3	.9	1.3	.9	.7	.7	.3	.0								480	480	272	61
68/ 67		.7	2.0	1.2	1.2	1.1	.8	.3	.1									546	546	456	156
66/ 65		1.1	2.1	1.6	1.3	.6	.6	.3	.1									566	566	577	240
64/ 63		1.7	1.9	1.5	1.0	.8	.5	.0										551	551	763	357
62/ 61		2.2	1.9	1.6	.8	.6	.2		.0									548	548	727	476
60/ 59	.0	1.9	2.7	1.1	.7	.3	.1	.1										528	528	829	679
58/ 57		2.2	2.2	1.2	.3	.2	.1	.0										464	464	772	698
56/ 55	.0	2.3	1.8	.7	.3	.1	.0											391	391	759	753
54/ 53	.1	1.6	1.6	.8	.2	.0												317	317	589	727
52/ 51	.0	1.0	1.2	.5	.1													202	202	454	727
50/ 49	.1	.7	1.3	.3	.0													184	184	317	576
48/ 47	.1	.6	.6	.1														102	102	245	575
46/ 45	.0	.7	.4	.0														81	81	178	445
44/ 43	.0	.3	.2															43	43	115	309
42/ 41	.0	.3	.1															29	29	58	289
40/ 39		.1	.0															8	8	26	173
38/ 37		.0																3	3	6	96
36/ 35		.0																2	2	5	37

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | AUG MONTH

 ALL HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
34/ 33		.0																2	2	1	18
32/ 31																				2	14
30/ 29																					5
TOTAL	.5	17.9	21.9	13.8	10.7	8.9	7.5	6.7	5.2	3.2	1.7	1.0	.5	.4	.2	.0	.0	7438	7438	7438	7438

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	35526632	495798	66.7	18.256	7438							
Dry Bulb	33307853	491587	66.1	10.489	7438			341.8	199.0	85.3	6.2	744
Wet Bulb	26009782	436680	58.7	7.078	7438		.2	101.5	14.9			744
Dew Point	21657986	397500	53.4	7.969	7438		1.9	28.9	.9			744

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

 0000-0200 HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75					.1	.1		.1										3	3		
74/ 73			.3	.3		.3	.1	.1										11	11		
72/ 71		.1	.1	.1	.1	.2	.2											8	8		
70/ 69		.1	.8	.4	.2	.1		.1										16	16	5	1
68/ 67			.8	.1	.2	.3												13	13	5	4
66/ 65		.2	.2	.6	.2	.1	.1											13	13	12	3
64/ 63		.9	.4	1.0		.2												23	23	16	9
62/ 61		1.0	.4	.6	.4	.2												24	24	16	21
60/ 59		1.3	1.6	.7	.9	.2												42	42	26	11
58/ 57	.1	1.2	1.0	1.3	1.2	.6												49	49	31	17
56/ 55	.1	3.0	1.9	2.1	.9	.3												75	75	39	27
54/ 53	.1	3.1	4.2	2.9	.8	.6												105	105	47	42
52/ 51		2.4	3.0	1.6	.4	.2												69	69	81	54
50/ 49		2.2	3.0	2.1	.3	.1												70	70	94	47
48/ 47	.2	3.6	2.7	2.4	.1	.1												82	82	84	64
46/ 45	.6	4.3	2.8	1.1	.6													84	84	90	89
44/ 43	.2	3.7	2.3	.1	.1	.1												59	59	101	82
42/ 41		2.6	2.3	.2														46	46	73	78
40/ 39		2.1	2.2	.4	.1													44	44	57	88
38/ 37		1.6	.7	1.0	.1													30	30	46	67
36/ 35		.8		.1														8	8	24	59
34/ 33		.4	.3	.1														8	8	24	51
32/ 31		.6	.6															10	10	9	30
30/ 29		.2	.1															3	3	11	6
28/ 27		.3																3	3	5	9
26/ 25		.2																2	2	3	20
24/ 23																				1	5
22/ 21																					9
20/ 19																					4
18/ 17																					3
TOTAL	1.3	36.0	31.8	19.3	6.9	3.9	.4	.3										900		900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5351578	68528	76.1	12.195	900							
Dry Bulb	2387708	45670	50.7	8.837	900		1.8	5.1	1.9			90
Wet Bulb	2088695	42313	47.0	8.127	900		2.9	1.0				90
Dew Point	1752168	38872	43.2	9.026	900		8.6	.5				90

FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

 0300-0500 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73			.2				.1											3	3		
72/ 71			.1	.1	.1		.1											4	4		
70/ 69			.3	.2	.2	.2												9	9	3	
68/ 67			.3		.6	.1												9	9		3
66/ 65		.2	1.0	.2	.8													20	20	5	
64/ 63		1.3	.2	.3	.2	.1												20	20	13	5
62/ 61		.8	.2	.2	.2	.1												14	14	26	17
60/ 59		1.1	1.2	.2	.6													28	28	16	17
58/ 57		.7	1.2	.9	1.2	.3												39	39	23	14
56/ 55		2.2	2.4	1.8	.1	.3												62	62	17	16
54/ 53		3.6	3.8	2.0	.8	.1	.1											93	93	50	26
52/ 51		3.7	3.9	.9	.6													81	81	80	56
50/ 49	.6	4.1	3.6	1.9	.3	.2												96	96	101	70
48/ 47	.1	3.3	3.0	1.2	.2													71	71	85	54
46/ 45	.2	3.8	3.1	.9	.1	.2												75	75	91	95
44/ 43	.3	4.2	3.6	.6	.2													80	80	72	70
42/ 41	.1	4.1	2.2	.1	.2													61	61	93	68
40/ 39	.1	2.6	1.2	.9														43	43	69	88
38/ 37	.1	3.2	.9	.3														41	41	54	84
36/ 35	.2	1.7	.3															20	20	42	64
34/ 33		.7	.1	.1														8	8	28	59
32/ 31	.1	.2	.1	.1														5	5	9	31
30/ 29	.2	.2	.1															5	5	4	16
28/ 27		.8	.2															9	9	7	10
26/ 25		.3																3	3	7	15
24/ 23		.1																1	1	5	6
22/ 21																					6
20/ 19																					5
18/ 17																					3
16/ 15																					2
TOTAL	2.1	42.9	33.4	13.0	6.4	1.8	.3												900		900
																		900		900	

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel Hum.	5695554	70866	78.7	11.338	900							
Dry Bulb	2224786	44088	49.0	8.507	900		2.3	2.5	.3			90
Wet Bulb	1943891	41211	45.8	7.951	900		3.2	.3				90
Dew Point	1689235	38187	42.4	8.758	900		9.4	.3				90

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — SEP MONTH

 0600-0800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83										.1								1	1		
80/ 79									.1									1	1		
76/ 75				.1														1	1		
74/ 73				.1														1	1		
72/ 71			.2		.2	.1												5	5		
70/ 69			.3		.1	.3												7	7	3	
68/ 67		.2	.4		.1	.2	.1											10	10	2	3
66/ 65	.1	.7	.3	.4	.1	.2												17	17	6	5
64/ 63	.1	1.0	.3	.3	.3	.1												20	20	16	7
62/ 61		1.0	.6	.4	.7	.1												25	25	17	10
60/ 59		.6	1.3	.9	.2	.2	.1											30	30	15	16
58/ 57		1.1	2.4	1.4	.6	.1												51	51	24	11
56/ 55		2.0	2.6	1.7	.8	.1												64	64	31	17
54/ 53	.1	2.4	2.8	1.6	.8													69	69	60	35
52/ 51	.2	4.6	4.1	1.1	.4													94	94	76	45
50/ 49	.6	4.2	4.6	2.1	.2													105	105	94	81
48/ 47	.2	4.3	3.3	1.7	.1													87	87	103	76
46/ 45	.1	4.2	3.2	.7	.1													75	75	85	89
44/ 43	.1	4.4	3.4	.3	.3													78	78	106	73
42/ 41		2.3	2.6	.3														47	47	75	81
40/ 39	.2	1.7	2.1	.6														41	41	59	83
38/ 37	.2	1.6	1.0	.2														27	27	46	84
36/ 35	.2	1.3	.4	.1														19	19	34	58
34/ 33		.7	.2															8	8	25	38
32/ 31		.1	.1															2	2	5	36
30/ 29	.1	.2	.1															4	4	4	16
28/ 27	.2	.3	.2															7	7	4	15
26/ 25		.2																2	2	6	6
24/ 23	.1	.1																2	2	3	5
22/ 21																				1	3
20/ 19																					3
18/ 17																					3
16/ 15																					1

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — SEP MONTH

PAGE 2 0600-0800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	2.7	39.3	36.8	14.1	5.1	1.6	.2		.1	.1								900	900	900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum.	5680963	70783	78.6	11.263	900							
Dry Bulb	2281587	44689	49.7	8.343	900		1.7	2.6	.4	.1		90
Wet Bulb	1992951	41777	46.4	7.729	900		2.3	.5				90
Dew Point	1732330	38750	43.1	8.433	900		8.8	.3				90

USAFETAC FORM 0 26 3 01 A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — SEP

 0900-1100

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Wet Bulb	TOTAL Dew Point
88/ 87								.1	.1									2	2		
86/ 85										.1	.1							2	2		
84/ 83							.3	.1	.2	.1								7	7		
82/ 81						.1	.2	.2	.2	.1								8	8		
80/ 79						.3	.1	.4	.1		.1							10	10		
78/ 77					.1	.1	.2	.2	.1	.1	.2							10	10		
76/ 75				.3	.3	.4	.4	.2	.2	.2		.1						21	21		
74/ 73				.1	.2	.3	.3	.3	.3	.1								16	16	1	
72/ 71			.2	.4	.2	.8	.6	.7	.6	.1								32	32	6	
70/ 69		.2	.3	.3	.3	.4	1.0	.6	.1									30	30	11	
68/ 67			.4	.1	.7	.7	1.0	.8										33	33	17	9
66/ 65		.3	.2	.7	1.1	.7	1.2	.4	.6									47	47	22	10
64/ 63		.1	.6	.9	1.4	1.7	.7	.2										50	50	22	11
62/ 61		.8	.6	2.1	2.0	2.4	.7	.4	.1									82	82	22	12
60/ 59		.9	.6	2.1	2.1	1.8	.3	.2										72	72	45	21
58/ 57	.1	.7	2.1	1.9	1.8	1.1	.2											71	71	64	25
56/ 55	.1	1.4	3.1	2.4	2.2	.7	.2											92	92	79	48
54/ 53		1.9	2.0	2.7	1.1	1.0	.1											79	79	125	36
52/ 51	.2	2.3	2.4	1.8	.9	.2												71	71	106	69
50/ 49		1.6	1.8	1.4	1.1	.1												54	54	105	91
48/ 47		1.0	.9	1.0	1.6	.1												41	41	80	84
46/ 45		.6	1.3	.9	.2													27	27	61	106
44/ 43		1.1	1.2	.4														25	25	51	73
42/ 41		.1	.4	.3														8	8	33	80
40/ 39		.1	.2	.2														5	5	30	64
38/ 37				.3														3	3	10	41
36/ 35				.2														2	2	4	39
34/ 33																				2	24
32/ 31																				2	26
30/ 29																				2	15
28/ 27																					8
26/ 25																					3
24/ 23																					2
22/ 21																					1

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

 0900-1100 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
20/ 19																			2
TOTAL	.4	13.1	18.4	20.8	17.4	13.0	7.7	5.0	2.7	.9	.4	.1						900	900
																		900	900

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3953373	57903	64.3	15.928	900							
Dry Bulb	3179067	52839	58.7	9.248	900			17.1	7.6	2.3		90
Wet Bulb	2474925	46739	51.9	7.281	900		.4	3.5	.1			90
Dew Point	1954700	41260	45.8	8.382	900		5.7	.9				90

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

 1200-1400 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
100/ 99														.1				1	1	
96/ 95												.1		.1	.2			4	4	
94/ 93											.1	.1	.2	.1				5	5	
92/ 91									.1	.2	.2							5	5	
90/ 89									.1		.6	.1		.1				8	8	
88/ 87								.2	.4	.3	.4	.3		.2	.2			20	20	
86/ 85								.2	.1	.2	.4		.3					12	12	
84/ 83								.3	.2	.3	.3	.1		.2				14	14	
82/ 81							.3	.2	.1	.2	.3	.3	.1	.1				16	16	
80/ 79						.2	.2	.6	.3	.4		.4	.2					22	22	
78/ 77						.3	.3	.2	.4	.6	.8							24	24	
76/ 75					.3	.1	.8	.7	1.3	.7	.6	.1						41	41	1
74/ 73					.3	.4	1.3	1.0	.7	.6	.4							43	43	9
72/ 71				.3	.2	.6	1.4	.8	1.2	.6	.2							48	48	12
70/ 69			.1	.2	.7	.3	1.2	.9	1.1	.2	.1							44	44	19
68/ 67		.1	.6	.2	.4	1.3	2.1	1.4	.9	.7								70	70	28	4
66/ 65		.9		.1	.4	1.4	1.2	1.6	.4	.3								58	58	32	8
64/ 63		.3	.1	.8	1.2	1.3	2.0	.8	.1									60	60	32	22
62/ 61		.3	.8	1.3	2.0	1.8	1.1	.4										70	70	60	25
60/ 59		.8	1.2	.7	.9	.8	.8	.2										48	48	60	22
58/ 57		1.1	1.0	1.1	1.1	1.0	1.0	.1										58	58	83	27
56/ 55		1.1	1.2	.8	1.2	1.6	1.3											65	65	103	53
54/ 53		1.0	1.6	1.0	.9	1.1	.2	.1										53	53	115	49
52/ 51		1.1	1.1	1.2	.7	.7	.2											45	45	90	67
50/ 49		.4	.9	1.0	.6	.6	.2											33	33	64	76
48/ 47		.1		.4	.8													12	12	59	80
46/ 45		.4	.1	.1	.4													10	10	53	73
44/ 43		.3																3	3	35	64
42/ 41		.2			.4													6	6	23	67
40/ 39				.2														2	2	11	76
38/ 37																				5	46
36/ 35																				1	45
34/ 33																				5	21
32/ 31															•						31

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A PREVIOUS EDITION OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

PAGE 2 1200-1800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
30/ 29																					18
28/ 27																					14
24/ 23																					8
22/ 21																					2
20/ 19																					2
TOTAL	8.3	8.7	9.6	12.7	13.6	15.9	9.8	7.7	5.3	4.6	1.7	.9	1.0	.4			900	900	900	900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2849014	47860	53.2	8.387	900							
Dry Bulb	3902488	58432	64.9	11.002	900			37.7	21.5	9.3	1.0	90
Wet Bulb	2738219	49173	54.6	7.574	900			6.9	1.0			90
Dew Point	1964948	41240	45.8	9.148	900		7.5	.4				90

669 05x

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — SEP MONTH

 1500-1700 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
102/101															.2			2	2	
98/ 97														.1	.1	.1		3	3	
96/ 95												.1		.1	.3	.1		6	6	
94/ 93										.1	.1	.1	.1		.4			8	8	
92/ 91										.1	.2	.2	.1		.2			8	8	
90/ 89										.4	.3	.7		.3	.3	.2		21	21	
88/ 87								.1	.1	.2	.3	.6				.1		13	13	
86/ 85								.1	.1	.2	.2	.1	.2		.1			10	10	
84/ 83							.3	.2	.2	.1	.6	.1		.6				19	19	
82/ 81						.1	.2	.2	.1		.2	.3	.3					14	14	
80/ 79						.2	.3	.1	.7	.6	.4	.8						28	28	
78/ 77						.3	.2	.7	.3	1.2	1.0	.1						35	35	
76/ 75						.3	.6	.6	.7	1.2	.8							37	37	2
74/ 73				.3		.3	.7	.9	1.2	.8	.7							44	44	8
72/ 71			.1		.4	.7	.9	1.8	.9	.8	.4							54	54	14
70/ 69			.1	.1	.6	.2	.8	1.1	1.3	1.1	.2							50	50	19
68/ 67			.4	.1	.9	.1	1.7	1.4	1.4	.8								62	62	31 4
66/ 65		.2	.7	.6	.8	1.7	1.8	1.1	.2	.2								65	65	27 8
64/ 63		.7	.3	.7	1.0	1.7	1.3	1.0	.2									62	62	39 20
62/ 61		.6		.8	1.4	1.3	1.1	.6										52	52	55 16
60/ 59		1.0	.6	.8	1.1	.9	1.2	.6										55	55	70 28
58/ 57		.4	.9	.6	.7	1.7	1.3	.9										58	58	89 32
56/ 55		1.3	.9	.7	1.1	1.1	1.0	.2										57	57	100 44
54/ 53		1.3	2.1	.7	.9	.1	.2											48	48	118 44
52/ 51		.6	1.2	.3	.7	.7	.3											34	34	77 58
50/ 49	.1		.4	1.2	.7	.1												23	23	77 67
48/ 47		.4	.2	.3	.3	.1												13	13	50 74
46/ 45		.3		.1	.3													7	7	50 88
44/ 43					.4	.3												7	7	36 69
42/ 41		.2			.2													4	4	18 65
40/ 39		.1																1	1	9 62
38/ 37																				2 63
36/ 35																				7 47
34/ 33																				2 28

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — SEP MONTH

PAGE 2 — 1500-1700 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
32/ 31																				26
30/ 29																				24
28/ 27																				17
26/ 25																				3
24/ 23																				9
22/ 21																				1
20/ 19																				3
TOTAL	.1	7.2	8.0	7.2	11.6	12.0	14.0	11.6	7.6	7.9	5.6	3.1	.8	1.1	1.8	.6		900	900	900
																		900	900	

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2581149	45011	50.0	19.161	900							
Dry Bulb	4080601	59707	66.3	11.533	900			41.9	24.8	11.8	1.9	90
Wet Bulb	2766968	49838	55.9	7.553	900			7.9	1.0			90
Dew Point	1913380	40694	45.2	9.295	900		8.3	.9				90

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

PAGE 1 1800-2000 (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93												.1			.1			2	2	
92/ 91													.1	.1	.1			3	3	
90/ 89									.1									1	1	
88/ 87									.1		.1							2	2	
86/ 85							.1	.1	.1	.2	.1							6	6	
84/ 83							.1	.1	.2	.1	.1	.3	.1					10	10	
82/ 81						.1	.3	.1	.1	.6		.1	.1					13	13	
80/ 79						.7		.2	.1	.1	.1		.1					12	12	
78/ 77					.3	.1	.6	.8	.1	.1		.1						19	19	
76/ 75					.2	.2	.1	.6	.3	.7								19	19	1
74/ 73				.1	.2	.6	.4	.1	.9	.2	.2							25	25	3
72/ 71				.1	.6	.2	.3	.4	.3	.3								21	21	5
70/ 69				.2	.8	.8	1.6	.7	.6	.1								42	42	13	
68/ 67			.1	.4	.7	.3	1.6	.9	.6									41	41	17	5
66/ 65			.3	.8	.6	.4	1.3	.8	.2	.1								41	41	17	5
64/ 63		.4	.6	.9	1.2	1.7	1.1	.3	.2									58	58	29	15
62/ 61		1.2	.6	1.7	1.7	2.3	1.2	.4										82	82	36	10
60/ 59		.7	1.1	1.9	1.7	1.4	.8	.3										71	71	44	27
58/ 57		1.1	1.7	1.7	1.7	1.9	.2	.2										76	76	67	28
56/ 55		1.8	1.3	1.3	1.7	1.6	.4											73	73	84	42
54/ 53	.1	.9	2.6	1.8	2.0	.9	.4	.1										79	79	123	54
52/ 51	.1	1.3	2.1	1.2	1.0	.6												57	57	82	52
50/ 49	.1	.7	1.0	2.1	.6	.4	.2											46	46	97	69
48/ 47		.8	1.8	1.2	1.2	.3												48	48	78	83
46/ 45		.3	.7	1.3	.7													27	27	62	77
44/ 43			.1	.7	.2													9	9	58	74
42/ 41				.3	.4	.1												8	8	29	77
40/ 39		.3		.2	.2													7	7	25	61
38/ 37				.1														1	1	16	79
36/ 35				.1														1	1	3	41
34/ 33																				9	17
32/ 31																				1	27
30/ 29																				1	20
28/ 27																					14

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A (JUN 71) USAFETAC PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

PAGE 2 1800-2000 HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
26/ 25																					11
24/ 23																					5
22/ 21																					5
20/ 19																					1
18/ 17																					1
TOTAL	.3	9.6	13.9	18.2	17.6	14.7	10.9	6.2	4.0	2.6	.7	.7	.4	.1	.2			900			900
																	900		900		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3858203	53675	59.6	16.911	900							
Dry Bulb	3340246	54082	60.1	10.028	900			21.6	11.2	4.2	.2	90
Wet Bulb	2497751	46915	52.1	7.618	900		.2	3.9	.4			90
Dew Point	1886513	40377	44.9	9.015	900		8.4	.5				90

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

 2100-2300 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81							.1			.1								2	2	
80/ 79						.1	.1	.1		.1								4	4	
78/ 77					.1	.1	.2		.3									7	7	
76/ 75					.6	.2	.2	.1		.1								11	11	
74/ 73				.4	.2	.2	.2	.1	.1									12	12	
72/ 71				.6	.1	.2	.3	.1										12	12	1
70/ 69			.2	.4	.2	.3	.2	.1										14	14	7
68/ 67			.3	.1	.4	.1	.3	.2										14	14	8 1
66/ 65		.1		1.2	.1	.1	.6	.1										20	20	12 9
64/ 63		.2	.8	.9	.2	.7	.3											28	28	14 5
62/ 61		.8	1.0	1.3	.7	.8	.1											42	42	17 12
60/ 59		1.0	1.1	1.8	1.4	.9	.3	.1										60	60	39 19
58/ 57		1.4	1.3	2.1	1.7	1.3	.1											72	72	34 18
56/ 55		2.0	2.8	2.4	1.3	.7												83	83	46 40
54/ 53		2.3	3.0	1.8	1.7	.7												85	85	77 37
52/ 51	.2	2.0	3.6	2.0	1.3	.3												85	85	91 57
50/ 49	.2	1.7	3.8	2.3	.4													76	76	98 56
48/ 47	.1	2.6	3.3	2.4	.2	.1												79	79	89 74
46/ 45	.1	2.4	2.6	1.6	.2													62	62	130 84
44/ 43	.1	1.1	2.3	.7	.7													44	44	85 85
42/ 41		.9	1.8	1.2														35	35	52 80
40/ 39		.7	.9	.4	.3													21	21	42 77
38/ 37		.6	.6	.7														16	16	36 67
36/ 35		.1	.9															9	9	22 58
34/ 33		.2	.2															4	4	11 37
32/ 31																				14 27
30/ 29		.2																2	2	2 9
28/ 27		.1																1	1	3 14
26/ 25																				16
24/ 23																				14
22/ 21																				3
20/ 19																				1
TOTAL	.8	20.4	30.4	24.4	12.0	6.9	3.2	1.0	.4	.3								900	900	900

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	8658639	63579	70.6	13.478	900							
Dry Bulb	2643165	48101	53.4	8.973	900		.3	7.6	3.6	.3		90
Wet Bulb	2173075	43665	48.5	7.793	900		1.9	1.6				90
Dew Point	1785138	39298	43.7	8.778	900		8.9	.1				90

USAFETAC FORM 0-26 3 OL A JUN 71 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) SEP (MONTH)

 ALL (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
102/101															.0			2	2	
100/ 99														.0				1	1	
98/ 97														.0	.0	.0		3	3	
96/ 95												.0		.0	.1	.0		10	10	
94/ 93										.0	.0	.0	.0	.0	.1			15	15	
92/ 91									.0	.0	.1	.0	.0	.0	.0			16	16	
90/ 89									.0	.1	.1	.1		.1	.0	.0		30	30	
88/ 87								.1	.1	.1	.1	.1		.0	.0	.0		37	37	
86/ 85							.0	.1	.0	.1	.1	.0	.1		.0			30	30	
84/ 83							.1	.1	.1	.1	.1	.1	.0	.1				51	51	
82/ 81						.0	.2	.1	.1	.1	.1	.1	.1	.0				53	53	
80/ 79						.2	.1	.2	.2	.2	.1	.2	.0					77	77	
78/ 77					.1	.1	.2	.2	.2	.3	.3	.0						95	95	
76/ 75				.1	.2	.2	.3	.3	.3	.4	.2	.0						133	133	4	
74/ 73			.1	.2	.1	.3	.4	.3	.4	.2	.2							155	155	21	
72/ 71		.0	.1	.2	.3	.3	.5	.5	.4	.2	.1							184	184	38	
70/ 69		.0	.3	.3	.4	.3	.6	.4	.4	.2	.0							212	212	80	1
68/ 67		.0	.4	.1	.5	.4	.8	.6	.4	.2								252	252	108	33
66/ 65	.0	.3	.3	.6	.5	.6	.8	.5	.2	.1								281	281	133	48
64/ 63	.0	.6	.4	.7	.7	.9	.7	.3	.1									321	321	181	94
62/ 61		.8	.5	1.1	1.1	1.1	.5	.2	.0									391	391	249	123
60/ 59		.9	1.1	1.1	1.1	.8	.4	.2										406	406	315	161
58/ 57	.0	1.0	1.5	1.4	1.2	1.0	.4	.2										474	474	415	172
56/ 55	.0	1.9	2.0	1.7	1.2	.8	.4	.0										571	571	499	287
54/ 53	.0	2.1	2.8	1.8	1.1	.6	.1	.0										611	611	715	323
52/ 51	.1	2.3	2.7	1.3	.8	.3	.1											536	536	683	458
50/ 49	.2	1.9	2.4	1.8	.5	.2	.1											503	503	730	557
48/ 47	.1	2.0	1.9	1.3	.6	.1												433	433	628	589
46/ 45	.1	2.1	1.7	.8	.3	.0												367	367	592	701
44/ 43	.1	1.9	1.6	.3	.3	.1												305	305	544	590
42/ 41	.0	1.3	1.2	.3	.2	.0												215	215	396	596
40/ 39	.0	.9	.8	.4	.1													164	164	302	599
38/ 37	.0	.9	.4	.3	.0													118	118	215	531
36/ 35	.1	.5	.2	.1														59	59	137	411

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | SEP MONTH

 HOURS ALL

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1	2	3	4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
34/ 33		.3	.1	.0																28	28	106	275
32/ 31	.0	.1	.1	.0																17	17	40	234
30/ 29	.0	.1	.0																	14	14	24	124
28/ 27	.0	.2	.1																	20	20	19	101
26/ 25		.1																		7	7	16	74
24/ 23	.0	.0																		3	3	9	54
22/ 21																						1	30
20/ 19																							21
18/ 17																							10
16/ 15																							3
TOTAL	1.0	22.1	22.7	15.8	11.2	8.4	6.6	4.2	2.8	2.1	1.4	.7	.3	.3	.3	.1				7200		7200	
																				7200		7200	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	342246731	4678205	66.8	18.898	7200							
Dry Bulb	24039648	407608	56.6	11.572	7200		6.1	135.6	70.8	28.0	3.1	720
Wet Bulb	18636471	361231	50.2	8.443	7200		10.9	25.1	2.5			720
Dew Point	14676368	318630	44.3	8.982	7200		65.1	3.4				720

USAFETAC FORM 0 26 3 OL A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — OCT MONTH

 0000-0200 HOUR (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 69								.1										1	1			
68/ 67								.1	.1									2	2			
66/ 65								.2										2	2			
64/ 63				.2				.2										4	4			
62/ 61			.2	.2	.1		.1											6	6			
60/ 59		.2	.2		.1	.1	.2											8	8			
58/ 57	.1	.3	.4	.2	.3	.4												17	17	10	3	
56/ 55		.3	.2	.4	.8	.4	.2											22	22	6	6	
54/ 53		1.7	.3	.6	.4	.4	.2											35	35	13	3	
52/ 51		.8	1.2	1.2	1.2	.3												43	43	25	23	
50/ 49	.1	1.1	1.8	1.8	1.1	.5												60	60	25	13	
48/ 47	.1	2.3	1.4	1.1	.4	.4												53	53	45	12	
46/ 45		2.7	3.2	1.0	.3	.3												70	70	58	23	
44/ 43	.1	2.9	2.9	.8	.9													70	70	83	40	
42/ 41		3.8	4.2	2.6	.6													104	104	77	51	
40/ 39	.5	3.9	4.9	.5														92	92	87	75	
38/ 37	.1	4.5	3.0	.9														79	79	109	81	
36/ 35	.1	3.2	3.4	.9														71	71	99	78	
34/ 33	.4	4.0	1.0	.2														52	52	86	103	
32/ 31	.1	2.9	1.3															40	40	59	93	
30/ 29	.1	1.1	1.3															23	23	42	71	
28/ 27		1.4	.9															21	21	24	71	
26/ 25		1.4	.3															16	16	24	51	
24/ 23		.4	.1															5	5	18	23	
22/ 21	.2	1.5	.1															17	17	14	21	
20/ 19	.1	.4																5	5	12	28	
18/ 17		.1																1	1	2	22	
16/ 15		.4																4	4	4	18	
14/ 13		.2																2	2	2	4	
12/ 11		.3																3	3	2	5	
10/ 9	.1																	1	1	3	6	
8/ 7		.1																1	1		1	
6/ 5																				1	3	
4/ 3																					1	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 77 F	≤ 82 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

PAGE 2 0000-0200 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
2/ 1																					1
TOTAL	2.3	41.9	32.5	12.6	6.2	3.0	.8	.6	.1									930			930
																		930		930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5303195	69125	74.3	13.338	930							
Dry Bulb	1653069	38263	41.1	9.211	930		13.9	.3				93
Wet Bulb	1390406	35142	37.8	8.202	930		20.7					93
Dew Point	1097297	30827	33.1	9.013	930		41.9					93

USAFETAC FORM 0-26-3 (OL-A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

 0300-0500 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
66/ 65						.1	.1											2 2	
64/ 63						.1												1 1	
62/ 61		.3	.1	.1			.1											6 6	
60/ 59			.2			.2												4 4	3 3
58/ 57			.4		.1	.6												11 11	2
56/ 55		.1	.5	.1	.5													12 12	4
54/ 53		.9	.5	1.3	.5	.2												32 32	7 2
52/ 51	.4	1.3	.2	.9	.9	.5												39 39	26 19
50/ 49	.3	1.0	1.1	1.6	.3													40 40	19 17
48/ 47		1.6	1.6	1.1	.5	.1												46 46	36 10
46/ 45		2.5	3.0	1.3	.6													69 69	45 15
44/ 43		3.1	4.1	.3	.2													72 72	64 26
42/ 41	.1	4.0	4.4	1.8	.2													98 98	90 55
40/ 39	.2	5.0	4.7	.5	.2													99 99	84 62
38/ 37	.1	3.8	2.9	.2														65 65	107 70
36/ 35		4.1	3.6	.1														72 72	83 103
34/ 33		4.2	2.2	.3														62 62	88 88
32/ 31	1.0	5.6	2.5	.1														85 85	76 99
30/ 29	.1	3.0	.6															35 35	70 93
28/ 27	.2	1.0	.3															14 14	44 66
26/ 25		1.3	.2															14 14	15 55
24/ 23		.9	.1															9 9	15 33
22/ 21		1.8																17 17	18 25
20/ 19	.2	.5																7 7	13 17
18/ 17		.6																6 6	7 27
16/ 15	.1	.3																4 4	3 15
14/ 13		.2																2 2	3 12
12/ 11																			1 6
10/ 9	.2	.3																5 5	5 3
8/ 7		.1																1 1	1 2
6/ 5																			4
4/ 3																			2
TOTAL	3.0	47.5	33.4	9.8	4.2	1.9	.2											929	929
																		929	929

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5527328	70822	76.2	11.755	929							
Dry Bulb	1526072	36708	39.5	9.027	929		19.9					93
Wet Bulb	1304001	33971	36.6	8.159	929		27.1					93
Dew Point	1043173	30043	32.3	8.788	929		45.9					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEAR | OCT MONTH

 0600-0800

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
66/ 65					.1													1	1		
64/ 63					.1		.1											2	2		
62/ 61		.3				.1												4	4		
60/ 59						.1												1	1	3	
58/ 57						.1												1	1	1	3
56/ 55		.4	.6	.4	.3	.2												19	19	1	
54/ 53	.1	1.2	.3	.5	.3	.1												24	24	6	2
52/ 51		1.1	1.3	.9	.3													33	33	22	14
50/ 49	.3	.8	1.2	1.5	.4													39	39	27	15
48/ 47	.2	1.4	1.9	1.5	.6													53	53	31	18
46/ 45		2.7	2.7	1.3	.8													69	69	41	14
44/ 43		3.1	3.3	.8	.2													69	69	68	29
42/ 41		4.4	3.5	2.0	.1													94	94	67	50
40/ 39	1.0	4.1	2.7	.3														75	75	102	64
38/ 37	.3	5.9	2.4	.3														83	83	93	73
36/ 35	.2	4.1	4.0	.5														82	82	90	92
34/ 33		4.8	2.5	.1														69	69	83	84
32/ 31	.4	4.5	2.3	.1														68	68	80	113
30/ 29	.3	3.3	1.1															44	44	65	72
28/ 27	.6	1.9	.3															27	27	54	69
26/ 25		1.7																16	16	25	60
24/ 23		1.1	.2															12	12	18	31
22/ 21		1.4																13	13	13	35
20/ 19	.2	1.4																15	15	14	26
18/ 17	.1	.5																6	6	14	16
16/ 15	.1	.3																4	4	3	17
14/ 13	.1	.1																2	2	3	13
12/ 11	.2	.3																5	5	6	10
10/ 9																					5
8/ 7																					5
TOTAL	4.3	51.0	30.3	10.3	3.3	.6	.1												930		930
																		930		930	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	5716810	72194	77.6	11.006	930							
Dry Bulb	1972106	36076	38.8	8.849	930		21.2					93
Wet Bulb	1273764	33580	36.1	8.121	930		29.5					93
Dew Point	1033034	29902	32.2	8.779	930		47.2					93

USAFETAC FORM 0-26-3 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

 0900-1100 (HOURS)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73								.2										2	2			
72/ 71							.1	.1										2	2			
70/ 69						.1	.1											2	2			
68/ 67						.1	.3		.2									6	6			
66/ 65					.1	.3	.2	.1										7	7			
64/ 63		.1	.1		.1	.3	.3	.3	.1									13	13			
62/ 61		.1			.8	1.0	.4	.1										22	22	3		
60/ 59			.3	.2	1.1	.5	.4	.2										26	26	4	2	
58/ 57		.1	.2	.6	1.1	1.0	.6	.1										35	35	5	1	
56/ 55		.6	.4	.5	1.6	.5	.3	.1										39	39	12		
54/ 53	.3	.3	.4	1.8	1.4	1.5	.1											55	55	32	10	
52/ 51		.8	1.0	1.4	1.5	.6	.2											51	51	38	11	
50/ 49	.1	1.7	1.9	1.6	2.5	.6	.2											81	81	59	20	
48/ 47		1.0	2.3	2.2	1.3	.1												63	63	58	30	
46/ 45		2.6	3.1	2.5	1.3	.2												90	90	70	36	
44/ 43		2.8	2.7	2.5	.8	.2												83	83	103	54	
42/ 41	.1	2.3	3.0	2.3	.1													72	72	104	65	
40/ 39	.1	3.3	2.5	1.6	.2													72	72	86	72	
38/ 37	.1	2.8	2.9	1.3	.1													67	67	101	96	
36/ 35		1.3	2.8	1.1														48	48	67	90	
34/ 33	.1	1.3	1.9	.4														35	35	61	80	
32/ 31		1.0	.9	.1														18	18	45	101	
30/ 29		.9	.6	.2														16	16	33	70	
28/ 27		.3	.4															7	7	18	49	
26/ 25		.4	.5															9	9	7	41	
24/ 23		.2	.2															4	4	14	20	
22/ 21		.3																3	3	5	35	
20/ 19	.1																	1	1	4	17	
18/ 17		.1																1	1		10	
16/ 15																				1	9	
14/ 13																					7	
12/ 11																					4	
TOTAL	1.0	24.3	28.3	20.3	13.9	7.2	3.4	1.3	.3									930	930		930	
																		930		930		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4456127	62849	67.6	14.993	930							
Dry Bulb	2007034	42360	45.5	9.140	930		5.9	1.2	.2			93
Wet Bulb	1598355	37909	40.8	7.560	930		12.7					93
Dew Point	1187504	32322	34.8	8.310	930		36.3					93

USAFETAC FORM 0-26-3 OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — OCT MONTH

PAGE 1 — 1200-1400 HOUR

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B. Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83											.1	.1						2	2		
80/ 79									.1	.1	.2							4	4		
78/ 77								.1	.2	.3		.1						7	7		
76/ 75								.2	.1	.2	.2							7	7		
74/ 73								.3	.4	.4								11	11		
72/ 71								.1	.5	.2								8	8		
70/ 69							.2	.9	.5	.2								17	17		
68/ 67					.3	.4	.6	1.0	.4	.2								28	28		
66/ 65		.1		.2	.5	1.0	1.1	.6	.3	.1								37	37		
64/ 63		.2		.1	.2	1.2	1.5	.9	.3	.2								43	43	7	1
62/ 61				.5	.2	.9	1.2	1.1	.6	.1								43	43	8	2
60/ 59			.3	.4	.6	.9	1.0	.8	.8	.1								45	45	14	
58/ 57		.1	.2	.4	1.6	.8	1.4	1.1	.1									53	53	24	1
56/ 55		.2	.1	.9	1.3	1.4	.8	.3										46	46	47	3
54/ 53	.2	.8	.6	1.4	2.0	1.1	1.2	.3										71	71	52	13
52/ 51		.8	.5	.8	2.4	1.0	.9	.1										59	59	57	16
50/ 49		1.3	1.7	1.5	2.0	1.2	.3											75	75	69	30
48/ 47	.2	1.6	1.3	1.7	2.3	.8												73	73	69	40
46/ 45		1.9	1.3	1.7	1.8	.2												65	65	110	48
44/ 43		1.5	1.4	1.4	1.1	.2												52	52	90	63
42/ 41		.3	1.8	1.3	1.3	.1												45	45	92	78
40/ 39	.3	.6	1.4	1.6	1.0													46	46	72	64
38/ 37		.5	.8	1.4	.3													28	28	67	76
36/ 35		.4	1.1	.8	.1													22	22	32	86
34/ 33		1.1	.4	.1														15	15	46	61
32/ 31		.1	.4	.5														10	10	35	82
30/ 29		.1	.5	.5														11	11	11	48
28/ 27		.2	.3															5	5	6	46
26/ 25		.1	.1															2	2	14	60
24/ 23																				8	27
22/ 21																					35
20/ 19																					18
18/ 17																					14
16/ 15																					6

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

 1200-1400 HOUR

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	> 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
14/ 13																			4
12/ 11																			8
TOTAL	.8	12.0	14.4	17.3	19.1	11.0	10.1	7.7	4.5	2.3	.5	.2						930	930
																	930		

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature < 0 F	< 32 F	< 67 F	> 73 F	> 80 F	> 93 F	Total
Rel. Hum.	3265707	52545	56.5	17.878	930							
Dry Bulb	2599256	48148	51.8	10.709	930		2.8	8.4	3.1	.5		93
Wet Bulb	1875775	41099	44.2	8.004	9[illegible]		7.4					93
Dew Point	1245366	32958	35.4	9.126	930		34.8					93

USAFETAC FORM 0 26 3 DLA Previous [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — OCT MONTH

PAGE 1 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb + Dew Point
88/ 87													.2					2	2		
86/ 85													.1					1	1		
84/ 83											.3							3	3		
82/ 81										.1	.2	.2						5	5		
80/ 79									.1	.4	.2	.2						9	9		
78/ 77										.3	.3	.1						7	7		
76/ 75									.1	.8	.1							9	9		
74/ 73									.2	.2	.3							7	7		
72/ 71						.1	.3	.3	.6	.2								15	15		
70/ 69					.4	.4	.4	.8	.5	.6	.1							31	31		
68/ 67					.1	.4	.5	1.4	.5	.2								30	30		
66/ 65				.1	.3	.3	.5	.8	.4									23	23		
64/ 63		.3		.2	.5	.8	1.2	1.4	.2									43	43	13	2
62/ 61			.1	.1	.1	.9	1.0	1.1	.6	.3								39	39	15	1
60/ 59			.1	.2	.8	1.3	1.3	.8	.9	.1								50	50	19	
58/ 57			.4	1.0	1.0	.9	2.4	1.0										61	61	30	2
56/ 55	.1	.5	.1	.2	1.8	1.3	1.2	.4	.1									54	54	39	8
54/ 53		.4	1.2	.6	1.1	1.3	1.4	.6	.1									63	63	50	7
52/ 51		.3	.5	.3	2.0	1.1	.8	.1										48	48	50	26
50/ 49	.1	.5	2.3	1.2	1.7	1.0	.3											66	66	76	19
48/ 47		1.5	1.0	2.6	1.3	1.5	.1											74	74	72	35
46/ 45		1.5	.8	2.4	1.9	1.1	.1											72	72	96	52
44/ 43		1.3	1.5	1.0	1.1	.5	.1											51	51	91	52
42/ 41		.8	1.1	1.1	.6													33	33	91	84
40/ 39	.2	.6	1.3	1.1	1.5													44	44	72	57
38/ 37		.4	.8	.8	.6													21	21	66	65
36/ 35	.1	.4	1.2	.3														19	19	38	82
34/ 33	.1	1.1	1.2	.4														26	26	38	84
32/ 31			.1	.5	.1													7	7	30	80
30/ 29			.8	.3														10	10	17	31
28/ 27		.3	.4															7	7	5	45
26/ 25																				20	61
24/ 23																				2	30
22/ 21																					40

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — OCT MONTH

 1500-1700 HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
20/ 19																			30
18/ 17																			19
16/ 15																			8
14/ 13																			6
12/ 11																			2
10/ 9																			2
TOTAL	.6	10.1	14.4	14.4	17.1	12.8	11.6	8.6	4.5	3.3	1.6	.5	.3				930	930	930

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3034183	50295	54.1	18.390	930							
Dry Bulb	2706217	49037	52.7	11.394	930		2.4	11.9	4.3	1.5		93
Wet Bulb	1904832	41378	44.5	8.289	930		7.4					93
Dew Point	1221833	32557	35.0	9.900	930		35.4					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

 1800-2000 (HRS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
80/ 79											.1							1	1		
78/ 77									.1	.1								2	2		
76/ 75								.1	.1	.1								3	3		
74/ 73						.1			.1	.1								3	3		
72/ 71									.2									2	2		
70/ 69								.2	.1									3	3		
68/ 67				.1	.1		.1	.1	.1	.1								6	6		
66/ 65				.2	.1	.1	.3	.2	.2									11	11		
64/ 63	.1	.2	.1	.4	.2	.2	.5	.2	.1									20	20	2	1
62/ 61			.2	.2	.1	.6	.4	.2										17	17	5	2
60/ 59			.2	.5	.8	.6	.8	.2	.1									30	30	8	
58/ 57			.3	.8	.8	1.0	.3	.1										30	30	12	2
56/ 55	.1	.4	.8	.9	1.1	1.7	.2	.4										52	52	16	12
54/ 53		.3	1.3	1.2	1.4	.9	.8	.1										55	55	23	4
52/ 51		1.2	1.8	1.3	1.3	.8	.6											65	65	39	11
50/ 49	.2	1.5	1.9	1.9	1.4	.9	.2											75	75	64	19
48/ 47		2.0	1.6	1.4	1.8	.9	.1											73	73	72	38
46/ 45		1.7	1.6	2.0	1.5	.1												65	65	75	49
44/ 43		3.1	2.2	2.4	1.3													83	83	84	49
42/ 41		2.3	3.5	1.5	1.3	.1												81	81	89	66
40/ 39		1.9	2.3	1.2	.8													57	57	85	54
38/ 37		1.5	1.9	1.7	.3													51	51	107	77
36/ 35		1.8	1.8	.8	.1													42	42	45	87
34/ 33	.1	1.8	1.7	.8														41	41	72	73
32/ 31		.4	1.0	.2														15	15	42	89
30/ 29		.6	.9															14	14	33	54
28/ 27		1.0	1.1															19	19	16	53
26/ 25		.2	.4															6	6	23	50
24/ 23		.1	.3															4	4	10	31
22/ 21		.1	.1															2	2	4	31
20/ 19																				1	37
18/ 17		.1																1	1	2	19
16/ 15		.1																1	1		11
14/ 13																				1	7

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — OCT MONTH

PAGE 2 — 1800-2000 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
12/ 11																			2
10/ 9																			1
6/ 5																			1
TOTAL	.5	22.	62	7.1	19.5	14.3	8.0	4.4	1.9	1.2	.4	.1						930	930
																		930	930

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4224688	60816	65.4	16.329	930							
Dry Bulb	2080531	43047	46.3	9.733	930		6.2	2.0	.9	.1		93
Wet Bulb	1627947	38181	41.1	8.065	930		13.2					93
Dew Point	1182726	32028	34.4	9.268	930		38.6					93

USAFETAC FORM 0-26-3-OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 OCT
STATION STATION NAME YEARS MONTH

PAGE 1 2100-2300
HOURS

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75									.1									1	1		
72/ 71								.1										1	1		
70/ 69							.1	.2										3	3		
68/ 67					.2													2	2		
66/ 65								.2	.1									3	3		
64/ 63				.2		.1												3	3		
62/ 61	.1	.1	.1	.1	.1		.3											8	8	1	1
60/ 59	.2		.6		.1	.3	.1	.1										14	14	7	2
58/ 57		.3	.4	.5	.5	.6	.2											25	25	11	1
56/ 55	.1	.1	.2	1.3	1.1	.6	.1											33	33	7	8
54/ 53		.8	.9	.5	.9	.3	.3											34	34	7	8
52/ 51	.1	1.2	1.5	1.9	.4	.1	1.0											58	58	29	8
50/ 49	.2	1.1	2.3	2.2	1.1	.8	.2											72	72	42	16
48/ 47	.1	2.3	1.5	1.5	.6	.4	.1											61	61	59	27
46/ 45	.2	2.4	1.7	2.4	.8													69	69	73	47
44/ 43		3.2	3.1	2.2	.2													81	81	77	36
42/ 41		3.9	3.9	2.0	1.1													101	101	65	60
40/ 39		4.1	2.6	.9	.1													71	71	113	65
38/ 37	.1	2.5	3.3	1.7														71	71	101	77
36/ 35	.1	3.8	1.5	.6														56	56	62	83
34/ 33		2.5	1.7	.2														41	41	98	79
32/ 31	.1	2.2	1.4	.3														37	37	46	91
30/ 29	.3	.8	1.2															21	21	37	64
28/ 27	.1	1.6	.5															21	21	24	63
26/ 25		2.0	.4															23	23	29	50
24/ 23		.3	.1															4	4	20	27
22/ 21		.3																3	3	7	35
20/ 19		.2																2	2	2	27
18/ 17		.4																4	4	3	29
16/ 15		.1																1	1	4	6
14/ 13		.4																4	4	2	8
12/ 11		.2																2	2	2	2
10/ 9																				2	4
8/ 7																					3

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) OCT (MONTH)

PAGE 2 2100-2300 (HOURS L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
6/ 5																			1
4/ 3																			2
TOTAL	1.	8.	36.	72.	9.	0.	18.	6	7.2	3.3	2.5	.6	.2					930	930
																		930	930

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4989820	66774	71.8	14.505	930							
Dry Bulb	1777883	39721	42.7	9.359	930		12.2	.7	.1			93
Wet Bulb	1467758	36146	38.9	8.227	930		17.8					93
Dew Point	1134203	31317	33.7	9.258	930		41.2					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

 ALL

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
88/ 87													.0					2	2			
86/ 85													.0					1	1			
84/ 83											.1	.0						5	5			
82/ 81										.0	.0	.0						5	5			
80/ 79									.0	.1	.1	.0						14	14			
78/ 77								.0	.0	.1	.0	.0						16	16			
76/ 75								.0	.1	.1	.0							20	20			
74/ 73							.0	.1	.1	.1	.0							23	23			
72/ 71							.0	.1	.2	.1								28	28			
70/ 69						.1	.1	.1	.3	.1	.1	.0						57	57			
68/ 67					.0	.1	.1	.2	.3	.2	.1							74	74			
66/ 65			.0		.1	.1	.2	.3	.3	.1	.0							86	86			
64/ 63	.0	.1	.0	.1	.1	.3	.5	.4	.1	.0								129	129	22	4	
62/ 61	.0	.1	.1	.2	.2	.4	.4	.3	.2	.1								145	145	32	6	
60/ 59	.0	.0	.3	.2	.4	.5	.5	.3	.2	.0								178	178	58	7	
58/ 57	.0	.1	.3	.4	.7	.7	.6	.3	.0									233	233	95	13	
56/ 55	.0	.3	.4	.6	1.1	.8	.3	.2	.0									277	277	132	37	
54/ 53	.1	.8	.7	1.0	1.0	.7	.5	.1	.0									369	369	190	49	
52/ 51	.1	.9	1.0	1.1	1.3	.6	.4	.0										396	396	286	128	
50/ 49	.2	1.1	1.8	1.7	1.3	.6	.2											508	508	381	149	
48/ 47	.1	1.7	1.6	1.6	1.1	.5	.0											496	496	442	210	
46/ 45	.0	2.2	2.2	1.8	1.1	.2	.0											569	569	568	284	
44/ 43	.0	2.6	2.6	1.4	.7	.1	.0											561	561	660	349	
42/ 41	.0	2.7	3.2	1.8	.7	.0												628	628	675	509	
40/ 39	.3	2.9	2.8	1.0	.5													556	556	701	513	
38/ 37	.1	2.7	2.2	1.0	.2													465	465	751	615	
36/ 35	.1	2.4	2.4	.6	.0													412	412	516	701	
34/ 33	.1	2.6	1.6	.3														341	341	572	652	
32/ 31	.2	2.1	1.2	.2	.0													280	280	413	748	
30/ 29	.1	1.2	.9	.1														174	174	308	503	
28/ 27	.1	1.0	.5															121	121	191	462	
26/ 25		.9	.3															86	86	157	428	
24/ 23		.4	.1															38	38	135	222	
22/ 21	.0	.7	.0															55	55	61	257	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | OCT MONTH

 ALL

Temp °F	WET BULB TEMPERATURE DEPRESSION (°F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Wet Bulb	TOTAL Dew Point
20/ 19	.1	.3																30	30	46	200
18/ 17	.1	.2																19	19	28	156
16/ 15	.0	.2																14	14	15	90
14/ 13	.0	.1																10	10	11	61
12/ 11	.0	.1																10	10	11	39
10/ 9	.0	.0																6	6	10	21
8/ 7		.0																2	2	1	11
6/ 5																				1	9
4/ 3																					5
2/ 1																					1
TOTAL	1.8	30.8	26.2	15.4	10.7	6.0	4.1	2.6	1.4	.8	.3	.1	.0					7439		7439	
																		7439		7439	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	36517858	505420	67.9	17.115	7439							
Dry Bulb	15822168	333360	44.8	10.899	7439		84.5	24.5	8.6	2.1		744
Wet Bulb	12442838	297906	40.0	8.621	7439		135.8					744
Dew Point	9145136	251958	33.9	9.068	7439		321.3					744

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

 0000-0200

Temp. °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
54/ 53						.1												1	1			
52/ 51						.2												2	2			
50/ 49		.2		.2	.1	.1												6	6			
48/ 47	.1	.7	.7	.9	.1	.1	.1											24	24	5		4
46/ 45		.6	.6	.7	.7													22	22	6		4
44/ 43		.6	.8	.7		.1												19	19	16		2
42/ 41		.6	.6	.1	.1	.1												13	13	27		4
40/ 39		.3	1.0	.3	.3													18	18	18		12
38/ 37	.1	1.3	1.4	.4	.3													33	33	18		16
36/ 35		2.8	1.7	.8	.1													48	48	26		23
34/ 33	.4	5.6	1.2	.4														69	69	56		18
32/ 31	.7	6.9	2.4	.8														97	97	75		47
30/ 29	.7	5.2	.9	.1														62	62	89		71
28/ 27	.4	4.6	1.3															57	57	77		58
26/ 25	.6	8.1	1.4															91	91	61		54
24/ 23	.1	3.3																31	31	91		34
22/ 21	.6	3.4	.8															43	43	43		68
20/ 19	1.1	5.4	.6															64	64	46		91
18/ 17	.3	3.6	.3															38	38	56		50
16/ 15	.2	3.2	.2															33	33	38		77
14/ 13		2.1																19	19	25		45
12/ 11	.7	1.7																21	21	27		30
10/ 9	.2	1.9																19	19	21		27
8/ 7	.1	.8																8	8	11		31
6/ 5		.2																2	2	7		19
4/ 3	.1	1.3																13	13	6		28
2/ 1	.2	.9																10	10	16		15
0/ -1	.4	.3																7	7	6		5
-2/ -3	.2	.4																6	6	7		4
-4/ -5	.7	.3																9	9	8		8
-6/ -7	.7																	6	6	9		5
-8/ -9	.6																	5	5	5		8
-10/-11	.2																	2	2	2		7
-12/-13	.2																	2	2	2		5

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OLA

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

 0000-0200 HOUR

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31+	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
-14/-15																			9
-16/-17																			6
-18/-19																			6
-20/-21																			2
-22/-23																			6
-24/-25																			1
TOTAL	9.	76	6.	3	15.9	5.4	1.8	.8	.1									900	900
																		900	900

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 8 F	≤ 93 F	Total
Rel. Hum.	5044166	66424	73.8	12.558	900							
Dry Bulb	735461	23387	26.0	11.920	900	3.7	69.5					90
Wet Bulb	625316	21518	23.9	11.104	900	3.9	72.8					90
Dew Point	458956	16624	18.5	12.826	900	7.2	81.7					90

USAFETAC FORM 0-26 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb Dew Point
56/ 55						.2												2	2		
54/ 53						.2												2	2		
52/ 51					.1													1	1		
50/ 49		.2	.1	.2		.1												6	6		
48/ 47	.6	.1			.2													8	8	9	6
46/ 45		.8	.3	.4	.1													15	15	3	3
44/ 43		.6	.6	.3	.1													14	14	11	
42/ 41		.1	1.2	.4	.2													18	18	15	10
40/ 39		.7	.9	.3	.3	.1												21	21	11	2
38/ 37	.1	2.4	1.3	.4	.1													40	40	27	10
36/ 35	.2	2.1	1.2	.4														36	36	32	24
34/ 33	.4	5.1	1.2	.3														64	64	49	25
32/ 31	.7	8.0	2.0	.9														104	104	68	46
30/ 29	.8	4.3	2.0	.2														66	66	101	63
28/ 27	.4	4.7	1.9															63	63	57	52
26/ 25	.6	6.9	.6															72	72	81	63
24/ 23	.2	3.1	.3	.3														36	36	83	40
22/ 21	.9	5.4	.2															59	59	39	60
20/ 19	.9	5.4	.1															58	58	57	80
18/ 17	.4	4.2	.2															44	44	52	67
16/ 15		2.7	.3															27	27	39	70
14/ 13	.2	2.7																26	26	27	45
12/ 11	.1	1.7																16	16	25	33
10/ 9	.3	3.0																30	30	28	29
8/ 7	.2	.6																7	7	18	21
6/ 5		.3																3	3	3	15
4/ 3	.1	1.1																11	11	8	41
2/ 1	.4	.8																11	11	15	19
0/ -1	.3	.4																7	7	5	13
-2/ -3	.4	.3																7	7	9	2
-4/ -5	.3	.2																5	5	5	5
-6/ -7	1.0	.2																11	11	11	5
-8/ -9	.7																	6	6	8	5
-10/-11	.3																	3	3	3	15

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-24-3 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

PAGE 2 0300-0500

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-14/-15																						6
-16/-17	.1																	1	1	1	1	6
-18/-19																						7
-20/-21																						1
-22/-23																						4
-24/-25																						4
-26/-27																						2
-28/-29																						1
TOTAL	10.	968.	214.	6	4.4	1.2	.7											900		900		900
																			900		900	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	5119586	66976	74.4	12.272	900							
Dry Bulb	696988	22670	25.2	11.837	900	4.0	67.3					90
Wet Bulb	599159	20947	23.3	11.143	900	4.2	74.3					90
Dew Point	441232	16148	17.9	12.988	900	7.6	82.0					90

USAFETAC FORM 0-26 - PREVIOUS EDITIONS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

PAGE 1 0600-0800 (HOURS)

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57							.1											1	1			
56/ 55							.1											1	1			
54/ 53						.2												2	2			
50/ 49			.3	.1	.1	.3												8	8			
48/ 47	.3	.1	.1	.1	.1													7	7	4	4	
46/ 45	.2	.7	.6	.1														14	14	7	2	
44/ 43		.3	.1															4	4	11	6	
42/ 41		.2	.1	.2	.1													6	6	13	4	
40/ 39	.2	1.2	.8		.2													22	22	9	3	
38/ 37	.1	2.4	1.1	.7	.2													41	41	15	10	
36/ 35		3.1	1.6	.3														45	45	30	19	
34/ 33	.4	4.0	1.1	.9														58	58	57	21	
32/ 31	.3	7.3	2.7	.4														97	97	67	49	
30/ 29	1.1	5.2	1.2															68	68	84	53	
28/ 27	.8	5.0	1.0															61	61	83	57	
26/ 25	1.1	6.7	1.4	.2														85	85	65	62	
24/ 23	.1	2.7	.3															28	28	79	45	
22/ 21	.6	4.4	.3															48	48	45	61	
20/ 19	.3	8.1	.1															77	77	55	77	
18/ 17	.6	3.0	.2															34	34	61	55	
16/ 15	.1	4.1	.2															40	40	32	73	
14/ 13	.3	2.8																28	28	39	56	
12/ 11		1.4																13	13	22	34	
10/ 9	.3	2.9																29	29	24	31	
8/ 7		1.7																15	15	21	19	
6/ 5	.1	.8																8	8	14	20	
4/ 3	.2	.4																6	6	8	32	
2/ 1	.1	.6																6	6	6	25	
0/ -1	.8	.7																13	13	9	13	
-2/ -3	.4	.3																7	7	11	7	
-4/ -5	.7	.7																12	12	7	5	
-6/ -7	.6	.3																8	8	11	6	
-8/ -9	.2																	2	2	5	4	
-10/-11	.2																	2	2	2	8	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

PAGE 2 — 0600-0800 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-12/-13	.1																	1	1	1	7
-14/-15	.3																	3	3	3	6
-16/-17																					4
-18/-19																					5
-20/-21																					9
-22/-23																					2
-24/-25																					3
-26/-27																					3
TOTAL	10.8	71.2	13.3	3.1	.8	.6	.2												900		900
																		900		900	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5200504	67550	75.1	12.048	900							
Dry Bulb	663842	22042	24.5	11.745	900	9.8	69.1					90
Wet Bulb	575857	20448	22.7	11.123	900	9.9	75.9					90
Dew Point	527603	15783	17.5	13.012	900	8.2	83.1					90

FORM 0-26-3-OL-A (JUN 71) PREVIOUS EDITION OF THIS FORM ARE OBSOLETE USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

PAGE 1 — 0900-1100 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
64/ 63							.2	.1										3	3		
62/ 61								.1	.1									2	2		
60/ 59								.1										1	1		
58/ 57						.2	.1											3	3		
56/ 55			.1				.2											3	3		
54/ 53	.1			.2		.2	.2											7	7	4	1
52/ 51		.2			.3	.2												7	7		
50/ 49	.1	.2	.2	.4	.2	.1												12	12	7	3
48/ 47	.1	.6	.2	.3	.1	.2												14	14	8	5
46/ 45		.1	1.2	.1	.7	.4	.1											24	24	10	4
44/ 43		.3	.8	.8	.6	.3												25	25	14	4
42/ 41		.8	1.0	.3	.4	.1												24	24	24	3
40/ 39	.1	1.4	1.2	.3	.2													30	30	19	9
38/ 37		1.1	.9	1.3	.3													33	33	40	13
36/ 35	.1	2.4	1.8	.3	.1													43	43	39	33
34/ 33	.2	4.3	2.1	.6														65	65	52	30
32/ 31	.4	5.7	3.1	.9														91	91	67	53
30/ 29	1.1	4.5	1.6	.2	.1													67	67	57	51
28/ 27	.3	5.1	2.6	.1														73	73	79	58
26/ 25	.6	5.8	.8	.1														65	65	70	66
24/ 23		2.7	1.0															33	33	79	55
22/ 21	.3	4.2	.9															49	49	42	48
20/ 19	.3	4.9	.8															54	54	43	88
18/ 17	.1	2.1	.4															24	24	49	64
16/ 15	.2	3.0	.1															30	30	24	53
14/ 13		2.3	.1															22	22	26	46
12/ 11	.1	1.7	.1															17	17	25	30
10/ 9	.2	.8	.1															10	10	17	19
8/ 7		.9																8	8	8	22
6/ 5		1.0																9	9	9	36
4/ 3	.1	1.2																12	13	13	15
2/ 1		1.6																14	14	10	15
0/ -1	.6	.3																8	8	15	12
-2/ -3	.4	.7																10	10	9	8

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	< 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

PAGE 2 0900-1100 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-4/ -5		.1																1	1	3	4
-6/ -7	.2																	2	2	3	13
-8/ -9	.1																	1	1	1	9
-10/-11	.1																	1	1	1	5
-12/-13																					4
-14/-15																					1
-16/-17	.1																	1	1	1	4
-18/-19																					7
-20/-21																					2
-22/-23																					4
-28/-29																					1
TOTAL	6.2	60.1	21.2	6.1	3.1	1.9	.9	.3	.1									898	899	898	898

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4745692	64072	71.3	13.935	898							
Dry Bulb	830633	24953	27.8	12.398	899	2.9	60.9					90
Wet Bulb	686010	22694	25.3	11.199	898	3.3	68.3					90
Dew Point	478613	17281	19.2	12.761	898	7.9	79.5					90

USAFETAC FORM 0 26 3 OLA PREVIOUS EDITION OF THIS FORM IS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

PAGE 1 | 1200-1800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
72/ 71									.3		.1							4 4	
70/ 69								.1	.1									2 2	
68/ 67								.1		.1	.1							3 3	
66/ 65					.1					.1								2 2	
64/ 53							.1	.2	.1	.2								6 6	
62/ 61				.1		.1	.1	.2	.2									7 7	
60/ 59			.2			.2	.2	.1	.2									9 9	
58/ 57		.1				.7	.4	.1										12 12	1
56/ 55		.1		.1	.1	.4	.1	.2										10 10	10 1
54/ 53		.1	.1	.4	.9	.6	.2	.2										23 23	2 2
52/ 51		.4	.3	.4	.4	.2												17 17	6 3
50/ 49		.1	.1	.7	.6	.4	.1	.2										20 20	12 3
48/ 47			.4	.4	.8	.6	.8											27 27	29 4
46/ 45		.1	.4	.7	.3	1.2												25 25	22 4
44/ 43		.4	.3	.6	.1	.4												17 17	24 6
42/ 41		.3	.4	.3	.1	.4												15 15	23 10
40/ 39		.7	1.2	.8	.2	.3												29 29	26 18
38/ 37		1.0	2.9	1.4	.7													54 54	29 25
36/ 35		1.9	3.6	1.0	.6													63 63	40 27
34/ 33	.3	2.7	2.3	.3	.1													52 52	78 27
32/ 31	.9	4.9	2.7	.7														82 82	80 56
30/ 29	.3	3.9	4.0	.2														76 76	70 52
28/ 27	.4	3.2	3.7	.2														68 68	70 66
26/ 25	.3	2.9	1.3	.3														44 44	91 80
24/ 23	.4	1.6	1.6	.1														33 33	48 33
22/ 21	.4	3.0	1.4															44 44	41 69
20/ 19		3.8	.4															38 38	40 76
18/ 17		1.0	.6															14 14	39 60
16/ 15		1.9	.7															23 23	17 45
14/ 13		1.6	.2															16 16	20 42
12/ 11		.7	.3															9 9	16 37
10/ 9		1.1	.2															12 12	8 31
8/ 7		1.0																9 9	16 21
6/ 5		1.6																14 14	13 18

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

PAGE 2 — 1200-1400 HOURS (LST)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew Point
4/ 3		1.1																10	10	11	5
2/ 1		.8																7	7	11	13
0/ -1																				3	15
-2/ -3		.1																1	1		8
-4/ -5		.1																1	1	1	10
-6/ -7	.1																	1	1	2	7
-8/ -9																					5
-10/-11																					5
-12/-13																					3
-14/-15																					6
-16/-17																					3
-18/-19																					3
TOTAL	3.3	42.2	29.6	8.9	5.0	5.7	2.1	1.6	1.0	.4	.2								899		899
																		899		899	

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	8067550	58720	65.3	16.078	899							
Dry Bulb	1092304	28886	32.1	13.521	899	.3	50.3	.9				90
Wet Bulb	837872	25484	28.3	11.340	899	.6	59.8					90
Dew Point	530195	18795	20.9	12.363	899	6.5	77.0					90

USAFETAC FORM 0-26-3-OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

 1500-1700

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73										.1								1	1		
72/ 71									.3									3	3		
70/ 69										.1	.1	.1						3	3		
68/ 67												.1						1	1		
66/ 65					.2		.2			.1								5	5		
64/ 63						.2		.1	.1									4	4		
62/ 61							.4	.2	.2	.1								9	9		
60/ 59			.2	.1		.4	.6	.1										13	13		
58/ 57			.1			.3	.2	.2										8	8	2	
56/ 55			.2	.1	.3	.3	.3											12	12	7	
54/ 53		.1	.3	.2	.8	.2	.2	.2										19	19	5	1
52/ 51			.6	.7	1.2	.8	.1											30	30	6	4
50/ 49			.2	.6	.2	.6	.2	.2										18	18	21	2
48/ 47			.2	.3	.3	.1	.6	.1										15	15	22	7
46/ 45		.1	.2	1.0	.4	.8	.1											24	24	21	4
44/ 43		.4	.6	.4	.1	.4												18	18	30	9
42/ 41		.2	1.0	.3	.3	.1												18	18	20	15
40/ 39			1.2	.8	.3	.3												24	24	25	11
38/ 37	.1	1.1	2.7	1.8	.2													53	53	25	21
36/ 35		2.6	3.7	1.0	.3	.1												69	69	40	29
34/ 33	.3	2.8	2.1	.3														50	50	82	29
32/ 31	1.0	4.8	3.0	.7	.2													87	87	78	62
30/ 29	.4	2.7	3.2	.4														61	61	76	60
28/ 27	.3	4.3	4.0	.3														81	81	57	55
26/ 25	.3	2.7	1.7	.1														43	43	82	75
24/ 23	.2	1.8	1.0															27	27	73	33
22/ 21	.1	2.8	1.7															41	41	25	61
20/ 19	.1	4.2	.3															42	42	39	81
18/ 17		2.0	.3															21	21	43	50
16/ 15		1.1	.4															14	14	22	48
14/ 13		1.6	.1															15	15	11	43
12/ 11		1.4	.1															14	15	18	40
10/ 9		1.1	.1															11	11	13	40
8/ 7	.1	1.4																14	14	15	12

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OL A (OCT 70) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

PAGE 2 | 1500-1700 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
6/ 5		1.1																10		10	16	21
4/ 3		1.0																9		9	7	9
2/ 1		.9																8		8	6	13
0/ -1		.1																1		1	6	10
-2/ -3	.1	.2																3		3	3	14
-4/ -5																					1	14
-6/ -7																						3
-8/ -9																						2
-10/-11																						8
-12/-13																						3
-14/-15																						5
-16/-17																						1
-18/-19																						4
TOTAL	3.2	42.6	29.4	9.2	5.1	4.8	3.0	1.2	.7	.4	.1	.2							900			899
																		899		899		

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	8069626	58778	65.4	15.886	899							
Dry Bulb	1097389	28906	32.1	13.710	900	.4	50.3	.8	.1			90
Wet Bulb	842726	25516	28.9	11.488	899	1.0	59.4					90
Dew Point	532128	18810	20.9	12.422	899	6.4	76.8					90

USAFETAC FORM 0-26-3-OL-A Previous Editions of this Form ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — NOV MONTH

PAGE 1 1800-2000

Temp (F)		WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
60/	59						.1												1	1			
58/	57					.1	.2	.1											4	4			
56/	55			.1		.2	.1	.1	.1										6	6			
54/	53		.3	.2	.2	.3	.1		.1										12	12			
52/	51		.2	.3	.2	.2													9	9	6		
50/	49		.2	.1	.7	.2	.1	.1											13	13	8	4	
48/	47		.4	.7	1.2	.6	.3	.1											30	30	8	6	
46/	45		.3	.8	.4	.1	.3		.1										19	19	17	3	
44/	43		.6	.3	.3	.3	.6	.1											20	20	23	5	
42/	41		.3	.7	.8		.6	.1											22	22	20	13	
40/	39		.6	1.4	.4	.2													24	24	17	17	
38/	37		.8	1.2	.6														23	23	23	8	
36/	35	.7	1.7	2.1	.6														45	45	38	33	
34/	33		5.3	2.3	.2														71	71	50	13	
32/	31	.9	5.9	2.6	.1	.1													86	86	88	51	
30/	29	.7	5.3	1.6	.6														73	73	73	72	
28/	27	.3	4.3	3.1	.4														74	74	77	54	
26/	25	.8	5.2	1.1	.1														65	65	70	64	
24/	23	.1	2.3	1.0															31	31	76	42	
22/	21	.8	2.7	.8															38	38	39	60	
20/	19	.2	4.9	.3															49	49	36	76	
18/	17	.1	3.1	.3															32	32	50	45	
16/	15		3.8	.1															35	35	34	53	
14/	13	.1	2.0																19	19	35	38	
12/	11	.3	1.4																16	16	19	38	
10/	9	.2	1.6																16	16	15	49	
8/	7	.1	1.0																10	10	16	32	
6/	5	.1	.6																6	6	9	24	
4/	3	.1	1.8																17	17	7	16	
2/	1	.1	1.6																15	15	18	13	
0/	-1	.6	.3																8	8	15	6	
-2/	-3	.2	.4																6	6	7	10	
-4/	-5																				1	8	
-6/	-7	.4																	4	4	4	11	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A Previous Editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

PAGE 2 1800-2000

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-8/ -9	.1																	1		1	1	6
-10/-11																						6
-12/-13																						5
-14/-15																						6
-16/-17																						8
-18/-19																						4
-20/-21																						1
TOTAL	7.	059.	221.	2	6.	9	2.	4	2.	4	.7	.3							900		900	900
																		900		900		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum	4743413	64143	71.3	13.830	900							
Dry Bulb	839953	25107	27.9	12.459	900	1.9	60.1					90
Wet Bulb	693691	22825	25.4	11.301	900	2.8	69.0					90
Dew Point	582651	17391	19.3	12.770	900	7.1	79.8					90

USAFETAC FORM 0-26-3-OLA (PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) NOV (MONTH)

PAGE 1 2100-2300

Temp °F	WET BULB TEMPERATURE DEPRESSION (°F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
60/ 59							.1											1	1			
56/ 55						.2	.1											3	3			
54/ 53				.2	.2	.2	.1											7	7			
52/ 51		.1	.1	.1	.3													6	6			
50/ 49		.4	.3	.1	.1	.1	.1											11	11	2	2	
48/ 47		.6	.6	.6	.3													18	18	8	4	
46/ 45		.6	1.3	.3	.2													19	19	13		
44/ 43		.8	.9	.6	.2	.2												24	24	25	7	
42/ 41		.1	.4	.4	.1	.2												12	12	17	12	
40/ 39		.2	1.0	.1	1.0	.2												23	23	16	14	
38/ 37	.2	1.2	1.8	.1	.2													32	32	21	9	
36/ 35	.3	2.0	1.6	.3	.1													39	39	26	22	
34/ 33	.2	4.2	1.9	.2														59	59	58	19	
32/ 31	.7	6.6	1.9	.1														83	83	59	49	
30/ 29	.9	5.0	1.4	.1														67	67	88	62	
28/ 27	.3	6.0	1.6	.2														73	73	64	61	
26/ 25	.8	5.4	2.2															76	76	88	49	
24/ 23	.1	3.7	.7	.1														41	41	69	35	
22/ 21	.7	3.6	.7															44	44	55	64	
20/ 19	.7	4.9	1.0															59	59	37	87	
18/ 17	.3	3.1	.3															34	34	57	46	
16/ 15	.1	4.1	.1															39	39	39	67	
14/ 13	.2	2.1																21	21	31	52	
12/ 11	.4	1.1																14	14	24	35	
10/ 9	.1	1.2																12	12	11	36	
8/ 7		1.8																16	16	12	34	
6/ 5		.7																6	6	13	23	
4/ 3	.2	1.1																12	12	12	18	
2/ 1	.4	1.2																15	15	14	8	
0/ -1	.6	.3																8	8	10	14	
-2/ -3	.4	.4																8	8	8	10	
-4/ -5	.3	.3																6	6	6	5	
-6/ -7	.7																	6	6	9	7	
-8/ -9	.4																	4	4	4	10	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature < 0°F	< 32°F	< 47°F	< 73°F	< 80°F	< 93°F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

 2100-2300

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-10/-11	.1																	1	1	1	7
-12/-13	.1																	1	1	1	5
-14/-15																					6
-16/-17																					7
-18/-19																					9
-20/-21																					3
-22/-23																					2
TOTAL	9.	46	2.	9	19.	4	3.	7	2.	9	1.	2	.4						900		900
																		900		900	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature < 0 F	< 32 F	< 67 F	< 73 F	< 81 F	< 93 F	Total
Rel. Hum.	4935002	65612	72.9	12.992	900							
Dry Bulb	757863	23629	26.3	12.367	900		3.4	64.6				90
Wet Bulb	638659	21673	24.1	11.396	900		3.9	71.2				90
Dew Point	455158	16540	18.4	12.968	900		8.5	81.1				90

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND (STATION / STATION NAME) 73-82 (YEARS) NOV (MONTH)

 ALL

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11	12-13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point	
74/ 73											.0								1	1		
72/ 71										.1		.0							7	7		
70/ 69									.0	.0	.0	.0	.0						5	5		
68/ 67									.0		.0	.0	.0						4	4		
66/ 65					.0		.0				.0								7	7		
64/ 63						.0	.0	.1	.0	.0	.0								13	13		
62/ 61				.0		.0	.1	.1	.1	.0									18	18		
60/ 59			.1	.0		.1	.1	.0	.0										25	25		
58/ 57		.0	.0		.0	.2	.1	.0											28	28	3	
56/ 55		.0	.1	.0	.1	.2	.1	.0											37	37	17	1
54/ 53	.0	.1	.1	.2	.3	.2	.1	.1											73	73	11	4
52/ 51		.1	.2	.2	.3	.2	.0												72	72	18	7
50/ 49	.0	.2	.2	.4	.2	.2	.1	.1											94	94	50	14
48/ 47	.1	.3	.4	.5	.3	.2	.2	.0											143	143	93	40
46/ 45	.0	.4	.6	.5	.3	.3	.0	.0											162	162	99	24
44/ 43		.5	.5	.5	.2	.3	.0												141	141	154	39
42/ 41		.3	.7	.4	.2	.2	.0												128	128	159	71
40/ 39	.0	.6	1.1	.4	.4	.1													191	191	141	86
38/ 37	.1	1.4	1.7	.8	.3														309	309	198	112
36/ 35	.2	2.3	2.1	.6	.2	.0													388	388	273	210
34/ 33	.3	4.3	1.8	.4	.0														488	488	482	182
32/ 31	.7	6.3	2.5	.6	.0														727	727	582	413
30/ 29	.8	4.5	2.0	.2	.0														540	540	668	484
28/ 27	.4	4.7	2.4	.2															550	550	564	461
26/ 25	.6	5.5	1.3	.1															541	541	638	513
24/ 23	.2	2.6	.7	.1															260	260	598	317
22/ 21	.5	3.7	.8																366	366	329	491
20/ 19	.5	5.2	.5																441	441	353	656
18/ 17	.2	2.8	.3																241	241	407	437
16/ 15	.1	3.0	.3																241	241	245	486
14/ 13	.1	2.1	.1																166	166	214	367
12/ 11	.2	1.4	.1																120	121	176	277
10/ 9	.2	1.7	.1																139	139	137	262
8/ 7	.1	1.1																	87	87	117	192

Element (X)	ΣX	ΣX^2	$\bar{X}$	σ_x	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 63 F	≤ 73 F	≤ 83 F	≤ 93 F	Total
Rel. Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | NOV MONTH

 ALL HOURS

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
6/ 5	.3	.8																58		58	84	176
4/ 3	.1	1.1																90		91	72	164
2/ 1	.2	1.0																86		86	98	121
0/ -1	.4	.3																52		52	69	88
-2/ -3	.3	.4																48		48	54	63
-4/ -5	.3	.2																34		34	32	59
-6/ -7	.5	.1																38		38	49	57
-8/ -9	.3																	19		19	24	49
-10/-11	.1																	9		9	9	61
-12/-13	.1																	4		4	4	32
-14/-15	.3																	3		3	3	45
-16/-17	.3																	2		2	2	39
-18/-19																						45
-20/-21																						18
-22/-23																						18
-24/-25																						8
-26/-27																						5
-28/-29																						2
TOTAL	7.6	59.1	20.6	6.0	2.8	2.3	.9	.4	.2	.1	.0	.0	.0					7196	7196	7198	7196	7196

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 83 F	≥ 93 F	Total
Rel. Hum.	37925559	512275	71.2	14.232	7196							
Dry Bulb	6714428	199580	27.7	12.808	7198	20.9	486.5	1.7	.1			720
Wet Bulb	5499290	181106	25.2	11.438	7196	24.6	550.1					720
Dew Point	3802532	137328	19.1	12.816	7196	58.9	691.0					720

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

PAGE 1 0000-0200 HOURS

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
46/ 45			.1															1	1		
42/ 41		.1																1	1	1	
40/ 39		.2	.3															5	5	2	
38/ 37		.4	.2															6	6	2	2
36/ 35		1.6	.3															18	18	6	3
34/ 33		1.2	.9															15	15	20	2
32/ 31	1.1	1.7	.4															30	30	24	29
30/ 29	1.0	1.6	.3															27	27	27	15
28/ 27	1.2	3.5	.6															50	50	39	20
26/ 25	.8	5.1	.5															59	59	43	33
24/ 23	.9	2.3																29	29	60	24
22/ 21	1.9	3.5																51	51	50	47
20/ 19	1.9	5.8	.1															73	73	47	55
18/ 17	2.0	2.6	.3															46	46	71	50
16/ 15	.9	3.9																44	44	38	56
14/ 13	1.4	4.2	.5															57	57	43	41
12/ 11	.6	4.5	.3															51	51	46	44
10/ 9	.5	2.6	.1															30	30	55	47
8/ 7	.8	2.4																29	29	31	27
6/ 5	.6	3.0																34	34	37	27
4/ 3	.5	2.2																25	25	25	32
2/ 1	.6	3.0																34	34	27	38
0/ -1	2.4	.8																29	29	42	21
-2/ -3	2.2	1.6																35	35	34	32
-4/ -5	2.8	1.6																41	41	35	21
-6/ -7	2.8	.5																31	31	40	31
-8/ -9	1.1																	10	10	14	29
-10/-11	2.5																	23	23	23	20
-12/-13	1.4																	13	13	13	22
-14/-15	1.6																	15	15	15	26
-16/-17	.6																	6	6	6	12
-18/-19	.4																	4	4	4	24
-20/-21	.1																	1	1	1	35
-22/-23	.4																	4	4	4	18

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 OL-A (APR 73)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC MONTH

PAGE 2 — 0000-0200 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
-24/-25	.1																	1	1	1	19
-26/-27	.2																	2	2	2	12
-28/-29																					7
-30/-31																					2
-32/-33																					3
-34/-35																					2
-36/-37																					2
TOTAL	35.4	59.9	4.7																930		930
																		930		930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum.	512932	67814	72.9	14.091	930							
Dry Bulb	322534	11596	12.5	13.840	930	21.5	88.4					93
Wet Bulb	291830	10734	11.5	13.445	930	23.4	89.7					93
Dew Point	278397	4865	5.2	16.501	930	33.8	92.3					93

USAFETAC FORM 0-26-1 (OL-A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC MONTH

 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
42/ 41		.1																1	1		
40/ 39		.2																2	2	3	1
38/ 37		.1	.5															6	6		2
36/ 35		.6	.5															11	11	2	
34/ 33		1.8	.4															21	21	17	2
32/ 31	.5	2.3	.8															33	33	25	16
30/ 29	1.1	1.7	.4															30	30	34	24
28/ 27	1.2	2.2	.1															32	32	39	23
26/ 25	.5	4.5	.9															55	55	36	39
24/ 23	.9	2.9	.4															39	39	47	23
22/ 21	3.0	3.0	.2															58	58	69	34
20/ 19	1.3	4.7	.5															61	61	39	63
18/ 17	1.3	3.6	.1															46	46	60	39
16/ 15	.8	4.2	.2															48	48	47	54
14/ 13	1.9	4.0	.4															59	59	49	31
12/ 11	2.0	3.8	.1															55	55	52	58
10/ 9	.6	3.4	.1															39	39	54	47
8/ 7	.2	2.9																29	29	36	42
6/ 5	.3	1.4																16	16	26	24
4/ 3	.1	2.7																26	26	21	24
2/ 1	1.3	2.4																34	34	36	39
0/ -1	1.8	1.5																31	31	27	22
-2/ -3	2.3	2.0																40	40	43	38
-4/ -5	2.3	.8																28	28	31	30
-6/ -7	3.7	.6																40	40	41	18
-8/ -9	2.0																	19	20	25	20
-10/-11	1.4																	13	13	13	24
-12/-13	1.9																	18	18	18	20
-14/-15	2.0																	19	19	19	17
-16/-17	.8																	7	7	7	27
-18/-19	.9																	8	8	8	37
-20/-21	.2																	2	2	2	19
-22/-23	.1																	1	1	1	18
-24/-25	.2																	2	2	2	18

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC MONTH

PAGE 2 0300-0500 HOURS (LST)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27																					16
-28/-29																					10
-30/-31																					5
-32/-33																					6
-34/-35																					2
TOTAL	36	757	5	5	8													929	930	929	929

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5107802	67568	72.7	14.438	929							
Dry Bulb	309533	11083	11.9	13.821	930	22.9	88.9					93
Wet Bulb	280317	10251	11.0	13.423	929	23.7	90.8					93
Dew Point	276137	8323	8.7	16.610	929	38.7	92.5					93

USAFETAC FORM 0-26 1 DEC 73 PREVIOUS EDITION OF THIS FORM IS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

 0600-0800 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45		.1																1	1		
44/ 43		.1																1	1	1	1
42/ 41		.1																1	1	2	1
40/ 39																					1
38/ 37			.2															2	2		
36/ 35		.4	.3															7	7	1	
34/ 33		1.4	.4															17	17	13	
32/ 31	.3	2.1	.4															29	29	19	15
30/ 29	1.8	1.4	.4															34	34	39	16
28/ 27	.6	2.9	.1															34	34	23	28
26/ 25	.6	3.4																38	38	42	31
24/ 23	.9	2.4																30	30	45	11
22/ 21	3.0	3.7	.4															66	66	52	40
20/ 19	1.6	4.7	.2															61	61	50	55
18/ 17	1.8	4.7	.3															64	64	71	41
16/ 15	1.1	4.5	.4															56	56	50	54
14/ 13	1.3	4.5																54	54	48	48
12/ 11	1.0	2.7	.2															36	36	55	54
10/ 9	.4	3.5																37	37	31	37
8/ 7	.4	4.6																47	47	45	43
6/ 5	.4	1.8																21	21	41	23
4/ 3	.8	2.8																33	33	24	28
2/ 1	.4	2.5																27	27	31	46
0/ -1	2.6	.6																30	30	38	24
-2/ -3	1.5	2.8																40	40	30	33
-4/ -5	2.5	2.0																42	42	44	29
-6/ -7	2.7	.9																33	33	39	22
-8/ -9	2.2																	20	20	27	26
-10/-11	1.7																	16	16	16	24
-12/-13	1.5																	14	14	14	23
-14/-15	1.2																	11	11	11	22
-16/-17	.9																	8	8	8	19
-18/-19	1.1																	10	10	10	39
-20/-21	.6																	6	6	6	27

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OLA Previous editions of this form are obsolete

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC

 0600-0800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL DB WB	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-22/-23	.2																	2	2	2	13
-24/-25	.2																	2	2	2	14
-26/-27																					11
-28/-29																					11
-30/-31																					8
-32/-33																					8
-34/-35																					4
TOTAL	35.4	61.1	3.5															930	930	930	930

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5074850	67358	72.4	18.556	930							
Dry Bulb	290581	10519	11.3	13.591	930	23.4	90.1					93
Wet Bulb	264466	9694	10.4	13.263	930	28.7	91.3					93
Dew Point	266629	3673	3.9	16.478	930	35.7	92.7					93

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

 0900-1100 (HOURS)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
48/ 47		.1																1	1	1	1
46/ 45		.2																2	2		
44/ 43																				2	2
42/ 39			.2															2	2		
38/ 37			.2	.1														3	3	1	
36/ 35		.2	.9															10	10	1	
34/ 33		1.7	1.2															27	27	13	
32/ 31	.2	2.9	1.0															38	38	28	17
30/ 29	1.5	2.4	.6															42	42	48	17
28/ 27	.8	2.5	.5															35	35	42	32
26/ 25	.9	2.6	.4															36	36	32	43
24/ 23	.8	2.9	.4															38	38	47	23
22/ 21	2.3	3.3	.6															58	58	58	43
20/ 19	1.1	5.4	.4															64	64	44	45
18/ 17	1.1	3.8	.6															51	51	59	40
16/ 15	1.7	3.9	.6															58	58	60	48
14/ 13	.4	3.0																32	32	38	62
12/ 11	1.0	4.0																46	46	41	45
10/ 9	.8	3.4	.1															40	40	43	21
8/ 7	.1	5.1																48	48	41	40
6/ 5	.1	3.1																30	30	46	22
4/ 3	.2	2.6																26	26	29	28
2/ 1	1.0	4.0																46	46	36	42
0/ -1	2.6	1.4																37	37	49	32
-2/ -3	1.1	3.1																39	39	38	52
-4/ -5	1.9	1.6																33	33	34	27
-6/ -7	1.8	.5																22	22	29	20
-8/ -9	1.1																	10	10	14	28
-10/-11	1.8																	17	17	17	16
-12/-13	1.0																	9	9	9	20
-14/-15	.8																	7	7	7	24
-16/-17	.6																	6	6	6	30
-18/-19	1.0																	9	9	9	31
-20/-21	.6																	6	6	6	16

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0 26 3 OLA (5-73) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

 0900-1100

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-22/-23	.1																	1		1	1	17
-24/-25																						11
-26/-27																						10
-28/-29	.1																	1		1	1	13
-30/-31																						5
-32/-33																						5
-34/-35																						1
-36/-37																						1
TOTAL	28.3	63.7	8.0	.1															930			930
																		930		930		

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4958887	66523	71.5	14.691	930							
Dry Bulb	317819	11793	12.7	13.459	930	19.7	88.5					93
Wet Bulb	284219	10807	11.6	13.068	930	22.0	91.2					93
Dew Point	269995	8621	5.0	16.307	930	35.9	92.7					93

USAFETAC FORM 0-26-3-OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

PAGE 1 | 1200-1400 HOUR

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
52/ 51		.1	.2															3	3			
50/ 49							.1											1	1	1		
48/ 47						.1												1	1	2	1	
46/ 45				.1		.1												2	2			
44/ 43			.1	.2	.2													5	5			1
42/ 41			.1	.3														4	4	1		1
40/ 39			.8	.1														8	8	2		
38/ 37		.4	1.1	.2														16	16	6		
36/ 35		.6	1.1	.2														18	18	16		1
34/ 33	.1	2.8	.8	.4														38	38	29		5
32/ 31	.9	2.6	1.8	.1														50	50	41		37
30/ 29	1.5	2.9	1.6															56	56	48		29
28/ 27	.2	3.5	.6															41	41	50		44
26/ 25	.3	4.0	.4															44	44	61		28
24/ 23	.8	2.7	.5															37	37	43		27
22/ 21	.6	2.9	.5															38	38	45		52
20/ 19	1.6	4.3	.6															61	61	50		58
18/ 17	1.2	4.1	.8															56	56	48		49
16/ 15	.4	4.4	.5															50	50	49		56
14/ 13	.2	3.7	.2															38	38	39		42
12/ 11	.4	3.7	.2															40	40	40		33
10/ 9	.1	4.5	.5															48	48	54		20
8/ 7	.2	3.2	.2															34	34	38		28
6/ 5		3.1																29	29	39		21
4/ 3	.2	4.7																46	46	33		44
2/ 1	.4	3.8																39	39	41		55
0/ -1	2.0	1.1																29	29	49		37
-2/ -3	.9	1.7																24	24	21		30
-4/ -5	.9	1.5																22	22	25		22
-6/ -7	.9	.8																15	15	16		13
-8/ -9	1.0																	9	9	15		26
-10/-11	1.2																	11	11	11		23
-12/-13	.3																	3	3	3		10
-14/-15	.5																	5	5	5		36

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_X	No. Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-8 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

PAGE 2 1200-1400

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-16/-17	.6																	6		6	6	30
-18/-19	.3																	3		3	3	20
-20/-21																						15
-22/-23																						14
-24/-25																						7
-26/-27																						9
-28/-29																						3
-30/-31																						2
-32/-33																						1
TOTAL	17.	86	7.	112.	8	1.	7	.2	.2	.1									930			930
																		930		930		

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	47417	64960	69.8	18.829	930							
Dry Bulb	907919	14991	16.1	13.378	930	12.7	83.4					93
Wet Bulb	351768	13628	14.7	12.795	930	15.4	87.3					93
Dew Point	2900	7127	7.7	15.919	930	29.8	92.1					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 DEC

Temp °F	WET BULB TEMPERATURE DEPRESSION F: 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	≥ 30	TOTAL DB & WB	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
50/ 49						.1							.1																			2	2		
48/ 47					.1	.1					.1																					3	3		
46/ 45								.1																								1	1	1	
44/ 43					.1	.2		.1		.1																						5	5	1	
42/ 41					.3	.1		.1																								5	5	1	
40/ 39			.1		.9	.2																										11	11	3	2
38/ 37			1.1		.5	.1																										16	16	9	1
36/ 35			.8		.8	.4																										18	18	21	1
34/ 33	.1	2.7	1.0																													35	35	27	10
32/ 31	.5	3.9	1.9		.1																											60	60	43	42
30/ 29	1.1	1.8	.5																													32	32	44	24
28/ 27	.5	3.7	.9		.1																											48	48	42	35
26/ 25	.6	6.3	.1																													66	66	67	29
24/ 23	.2	2.4	.4																													28	28	52	31
22/ 21	1.2	3.9	.3																													50	50	49	66
20/ 19	1.7	3.7	.4																													54	54	44	52
18/ 17	.8	4.4	1.0																													57	57	45	60
16/ 15	.2	4.5	.4																													48	48	50	38
14/ 13	.3	3.0	.3																													34	34	45	35
12/ 11	.5	2.8	.8																													38	38	35	44
10/ 9	.3	3.4	.4																													39	39	38	39
8/ 7		2.7	.2																													27	27	43	24
6/ 5	.3	3.5	.1																													37	37	39	23
4/ 3	.2	4.2																														41	41	36	20
2/ 1	.2	4.8																														47	47	35	46
0/ -1	1.6	1.3																														27	27	47	33
-2/ -3	.6	2.2																														26	26	27	38
-4/ -5	1.2	1.3																														23	23	24	26
-6/ -7	.8	.8																														14	14	18	22
-8/ -9	1.6																															15	15	21	16
-10/-11	1.0																															9	9	9	23
-12/-13	.1																															1	1	1	11
-14/-15	1.0																															9	9	9	32
-16/-17	.1																															1	1	1	33

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC Form 0-3 Data

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC

PAGE 2 1500-1700

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL DB = WB	DB - WB	WB - DP	DB - DP
-18/-19	.3																	3	3	3	22
-20/-21																					23
-22/-23																					10
-24/-25																					7
-26/-27																					5
-28/-29																					3
-30/-31																					2
-32/-33																					1
-34/-35																					1
TOTAL	17.	269.	111.	5	1.	5	.3	.2	.1										930		930
																		930		930	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4788918	65268	70.2	14.875	930							
Dry Bulb	412018	15086	16.2	13.420	930	12.8	83.4					93
Wet Bulb	357052	13752	14.8	12.863	930	16.0	86.7					93
Dew Point	297236	7328	7.9	16.056	930	30.8	91.6					93

USAFETAC FORM 0-26-3 DEC 73 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

 1800-2000

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3	4	5-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	≥31	TOTAL DB	TOTAL W.B.	TOTAL Dry B.	TOTAL Wet B.	TOTAL Dew Point
48/ 47							.1																								1	1			
44/ 43				.2																											2	2			
42/ 41				.1	.1																										2	2			
40/ 39				.1			.1																								2	2	3		
38/ 37			.7	.1	.1																										4	4	2		
36/ 35	.1	1.4		.1	.1																										16	16	6		
34/ 33	.3	1.8		.4																											24	24	19		9
32/ 31	.9	2.7	1.7																												49	49	29		30
30/ 29	.9	4.1	1.2																												57	57	41		17
28/ 27	.6	3.2	.3	.2																											41	41	59		21
26/ 25	1.3	5.1	.1																												60	60	61		40
24/ 23	.8	2.0	.4																												30	30	58		35
22/ 21	1.4	2.9	.1																												41	41	31		66
20/ 19	2.2	4.9	.1																												66	66	53		57
18/ 17	1.6	3.5	.1																												48	48	57		48
16/ 15	1.4	4.1	1.1																												61	61	43		39
14/ 13	.3	3.5																													35	35	47		43
12/ 11	.3	2.4	.2																												27	27	33		51
10/ 9	.3	2.8	.2																												31	31	33		32
8/ 7	.6	3.5	.1																												39	39	32		22
6/ 5	.9	2.6																													32	32	48		23
4/ 3	.9	2.7																													33	33	32		25
2/ 1	.8	3.6																													40	40	38		34
0/ -1	2.3	2.0																													40	40	40		35
-2/ -3	1.4	1.9																													31	31	40		27
-4/ -5	1.1	.9																													18	18	17		30
-6/ -7	2.3	.4																													25	25	30		20
-8/ -9	2.4																														22	22	25		25
-10/-11	2.5																														23	23	23		23
-12/-13	.9																														8	8	8		22
-14/-15	.8																														7	7	7		15
-16/-17	.4																														4	4	4		22
-18/-19	.2																														2	2	2		41
-20/-21	.3																														3	3	3		24

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) DEC (MONTH)

 1800-2000

Temp °F	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
-22/-23																						17
-24/-25	.2																	2		2	2	15
-26/-27	.1																	1		1	1	7
-28/-29																						3
-30/-31																						1
-32/-33																						4
-36/-37																						2
-38/-39																						2
TOTAL	30.3	62.1	6.8	.5	.2													927		927		927
																		927		927		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93	Total
Rel. Hum.	5033584	669108	72.2	14.856	927							
Dry Bulb	351928	12826	13.8	13.726	927	18.7	87.9					93
Wet Bulb	314110	11822	12.8	13.281	927	20.3	90.0					93
Dew Point	290500	5810	6.3	16.565	927	33.6	92.1					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 GRAND FORKS AFB ND 73-82 DEC

STATION STATION NAME YEARS MONTH

 2100-2300 HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
50/ 49				.1	.1													2	2			
48/ 47				.1														1	1			
46/ 45			.1															1	1			
44/ 43		.1																1	1	2		
42/ 41																				3		
40/ 39		.1		.4														5	5	1	1	
38/ 37		.6	.1	.1														8	8		3	
36/ 35		1.0	.4															13	13	7	1	
34/ 33	.2	.8	.8															16	16	22	4	
32/ 31	.8	2.2	.9															35	35	14	26	
30/ 29	.8	1.9	1.0															34	34	34	9	
28/ 27	1.1	3.6	1.2															54	54	50	17	
26/ 25	1.1	4.7	.3															57	57	55	50	
24/ 23	1.0	2.5																32	32	58	34	
22/ 21	1.2	2.8	.1															38	38	34	41	
20/ 19	3.1	5.3	.2															80	80	57	60	
18/ 17	1.3	4.1	.2															52	52	59	49	
16/ 15	.8	3.8	.9															50	50	46	44	
14/ 13	1.1	3.7	.1															45	45	43	43	
12/ 11	1.3	1.7	.2															30	30	53	46	
10/ 9	1.1	2.8	.2															38	38	33	43	
8/ 7	.4	2.9																31	31	32	38	
6/ 5	.4	3.5																36	36	40	25	
4/ 3	.3	2.8																29	29	30	31	
2/ 1	1.2	2.3																32	32	36	29	
0/ -1	3.2	1.2																41	41	42	19	
-2/ -3	2.0	1.9																37	37	38	21	
-4/ -5	1.8	1.5																31	31	26	34	
-6/ -7	1.9																	18	18	32	32	
-8/ -9	1.5																	14	14	14	32	
-10/-11	2.5																	23	23	23	19	
-12/-13	1.7																	16	16	16	15	
-14/-15	.8																	7	7	7	24	
-16/-17	.8																	7	7	7	23	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 (OL-A) PREV

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | DEC MONTH

PAGE 2 2100-2300

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-18/-19	.5																	5	5	5	5	33
-20/-21	.4																	4	4	4	4	18
-22/-23																						8
-24/-25																						21
-26/-27	.3																	3	3	3	3	17
-28/-29	.1																	1	1	1	1	7
-30/-31																						2
-32/-33																						4
-36/-37																						1
-38/-39																						3
TOTAL	34.7	57.7	6.7	.8	.1													927		927		927
																		927		927		

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5057008	67140	72.4	18.483	927							
Dry Bulb	335488	12024	13.0	13.924	927	20.8	88.3					93
Wet Bulb	300177	11085	12.0	13.454	927	21.9	89.5					93
Dew Point	283430	5140	5.5	16.592	927	33.9	92.1					93

USAFETAC FORM 0-26 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC MONTH

ALL

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≠ 31	TOTAL D.B.	W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
52/ 51		.0	.0															3	3		
50/ 49				.0	.0		.0											5	5	1	
48/ 47		.0	.0	.0	.0	.0												7	7	3	2
46/ 45		.0	.0	.0	.0	.0												8	8	1	
44/ 43		.0	.1	.1	.0	.0												14	14	6	4
42/ 41		.0	.1	.1	.0													14	14	8	2
40/ 39		.1	.3	.1	.0													35	35	14	5
38/ 37		.4	.4	.1														61	61	20	8
36/ 35	.0	.8	.6	.1														111	111	62	6
34/ 33	.1	1.8	.7	.1														193	193	160	32
32/ 31	.6	2.6	1.1	.0														324	324	223	212
30/ 29	1.2	2.2	.8															312	312	315	151
28/ 27	.9	3.1	.6	.0														335	335	344	220
26/ 25	.8	4.5	.3															415	415	397	293
24/ 23	.8	2.5	.3															263	263	410	205
22/ 21	1.8	3.3	.3															400	400	388	389
20/ 19	1.8	4.8	.3															520	520	384	445
18/ 17	1.4	3.8	.4															420	420	470	376
16/ 15	.9	4.2	.5															415	415	383	389
14/ 13	.9	3.7	.2															354	354	352	345
12/ 11	.9	3.2	.3															323	323	355	375
10/ 9	.5	3.3	.2															302	302	341	286
8/ 7	.3	3.4	.1															284	284	298	264
6/ 5	.4	2.8	.0															235	235	316	188
4/ 3	.4	3.1																259	259	230	232
2/ 1	.7	3.3																299	299	280	329
0/ -1	2.3	1.2																264	264	334	223
-2/ -3	1.5	2.2																272	272	271	271
-4/ -5	1.8	1.4																238	238	236	219
-6/ -7	2.1	.6																198	198	245	178
-8/ -9	1.6																	119	120	155	202
-10/-11	1.8																	135	135	135	172
-12/-13	1.1																	82	82	82	143
-14/-15	1.1																	80	80	80	196

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3 (OL-A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — DEC MONTH

ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	W.B. Dry Bulb	TOTAL Wet Bulb	Dew Point
-16/-17	.6																	45	45	45	196
-18/-19	.6																	44	44	44	247
-20/-21	.3																	22	22	22	177
-22/-23	.1																	8	8	8	115
-24/-25	.1																	7	7	7	112
-26/-27	.1																	6	6	6	87
-28/-29	.3																	2	2	2	57
-30/-31																					27
-32/-33																					32
-34/-35																					10
-36/-37																					6
-38/-39																					5
TOTAL	29.5	62.3	7.5	.6	.1	.1	.0												7434		7433
																		7433		7433	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	39892081	533555	71.8	14.638	7433							
Dry Bulb	2747820	99918	13.4	13.748	7434	152.4	698.9					744
Wet Bulb	2443959	91773	12.3	13.281	7433	167.4	716.5					744
Dew Point	2252371	42887	5.8	16.425	7433	267.8	738.1					744

USAFETAC FORM 0-26-3 OLA PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION — GRAND FORKS AFB ND STATION NAME — 73-82 YEARS — ALL MONTH

 — ALL HOURS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
102/101															.0	.0		4	4			
100/ 99												.0	.0	.0	.0	.0		16	16			
98/ 97												.0	.0	.0	.0	.0	.0	18	18			
96/ 95										.0	.0	.0	.0	.0	.0	.0	.0	50	50			
94/ 93								.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	96			
92/ 91							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		138	138			
90/ 89						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	234			
88/ 87					.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0		315	315			
86/ 85				.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0			455	455			
84/ 83			.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0			653	653			
82/ 81			.0	.0	.1	.1	.1	.1	.2	.2	.1	.1	.0	.0	.0			859	859			
80/ 79		.0	.0	.0	.1	.1	.1	.2	.2	.2	.1	.0	.0	.0	.0			1058	1058	25		
78/ 77		.0	.0	.1	.1	.2	.2	.2	.2	.2	.1	.0	.0	.0				1193	1193	76		8
76/ 75		.0	.0	.1	.2	.3	.2	.3	.2	.2	.1	.0	.0					1407	1407	178		51
74/ 73	.0	.0	.1	.2	.2	.3	.3	.3	.2	.1	.1	.0	.0					1624	1624	413		74
72/ 71	.0	.1	.1	.2	.3	.3	.4	.2	.2	.1	.0	.0	.0					1754	1754	582		163
70/ 69	.0	.1	.3	.3	.4	.3	.3	.3	.2	.1	.0	.0						2077	2077	967		315
68/ 67	.0	.2	.5	.3	.4	.4	.3	.2	.1	.1	.0	.0						2252	2252	1451		580
66/ 65	.0	.3	.5	.5	.5	.3	.3	.2	.1	.1	.0							2506	2507	2006		817
64/ 63	.0	.5	.5	.5	.4	.4	.3	.1	.1	.0	.0							2513	2515	2568		1160
62/ 61	.0	.6	.5	.6	.4	.3	.2	.1	.1	.0	.0							2648	2648	2814		1678
60/ 59	.0	.6	.8	.5	.4	.3	.2	.1	.1	.0								2593	2593	3262		2142
58/ 57	.0	.6	.8	.5	.4	.3	.2	.1	.1	.0								2621	2621	3216		2251
56/ 55	.1	.8	.8	.5	.4	.3	.2	.1	.0									2720	2720	3413		2758
54/ 53	.0	.7	.8	.6	.4	.3	.2	.1	.0									2676	2676	3337		2778
52/ 51	.0	.7	.8	.4	.4	.3	.1	.0										2324	2324	3013		3132
50/ 49	.1	.6	.8	.6	.3	.2	.1	.0										2370	2370	2910		3067
48/ 47	.0	.7	.6	.5	.4	.2	.1	.0										2233	2233	2768		2949
46/ 45	.0	.7	.7	.5	.3	.1	.0	.0										2226	2226	2749		2877
44/ 43	.0	.7	.8	.4	.2	.1	.0											1980	1980	2664		2547
42/ 41	.0	.7	.9	.4	.2	.0	.0											1965	1965	2557		2801
40/ 39	.1	.7	1.0	.4	.2	.0	.0											2011	2011	2422		2531
38/ 37	.1	.9	.8	.4	.1	.0												2056	2056	2527		2526
36/ 35	.1	1.3	1.0	.3	.0	.0												2306	2306	2290		2543

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-3-OL-A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 YEARS | ALL MONTH

 ALL HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
34/ 33	.2	1.6	.9	.2	.0	.0												2559	2559	3040	2553
32/ 31	.3	1.8	1.0	.2	.0													2892	2892	2891	3845
30/ 29	.3	1.4	.7	.1	.0													2144	2146	2825	2989
28/ 27	.3	1.5	.5	.0														2043	2051	2433	2811
26/ 25	.2	1.7	.4	.0														2013	2017	2362	2950
24/ 23	.2	1.0	.2	.0														1274	1276	2226	1926
22/ 21	.5	1.2	.2															1705	1709	1700	2540
20/ 19	.5	1.9	.2	.0														2264	2267	1696	2864
18/ 17	.3	1.4	.1	.0														1667	1668	2119	2194
16/ 15	.2	1.4	.1															1491	1492	1568	1999
14/ 13	.2	1.2	.0															1298	1299	1278	1813
12/ 11	.3	1.0	.1															1227	1232	1395	1623
10/ 9	.3	1.1	.0															1242	1244	1322	1442
8/ 7	.2	1.2	.0															1218	1223	1212	1268
6/ 5	.2	.9	.0															954	956	1330	1021
4/ 3	.3	1.1																1168	1169	1075	1015
2/ 1	.3	1.3																1370	1370	1284	1302
0/ -1	.9	.4																1077	1077	1296	979
-2/ -3	.5	.6																958	958	1006	1059
-4/ -5	.6	.4																833	833	810	932
-6/ -7	.7	.2																786	786	942	854
-8/ -9	.8																	703	707	819	851
-10/-11	.8																	696	699	696	789
-12/-13	.4																	349	349	349	527
-14/-15	.6																	523	525	523	737
-16/-17	.4																	374	374	374	695
-18/-19	.4																	352	352	352	908
-20/-21	.2																	203	203	203	738
-22/-23	.1																	105	105	105	592
-24/-25	.1																	83	83	83	536
-26/-27	.0																	43	43	43	430
-28/-29	.0																	8	8	8	346
-30/-31	.0																	1	1	1	199
-32/-33																					224

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (YEARS) ALL (MONTH)

 ALL (HOURS)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
-34/-35																			158
-36/-37																			87
-38/-39																			27
-40/-41																			5
-42/-43																			1
TOTAL	12.4	35.5	17.5	9.5	6.7	5.1	4.1	3.1	2.3	1.6	.9	.5	.3	.2	.1	.0	.0	87627 87574	87574

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	427804845	5923021	67.61	17.625	87574							
Dry Bulb	198218402	3518242	40.22	25.496	87627	709.4	3308.1	1920.6	812.2	339.0	18.4	8760
Wet Bulb	153957187	3116121	35.62	22.179	87574	760.8	3633.4	369.2	69.2	.9		8760
Dew Point	122294678	2556666	29.22	23.327	87574	1166.9	4528.8	119.1	13.3			8760

USAFETAC FORM 0 26 3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727575 GRAND FORKS AFB ND 73-82
STATION STATION NAME YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	2.4	9.6	21.9	36.3	49.0	56.4	62.3	59.3	50.7	41.1	26.0	12.5	35.8
	S D	14.979	14.515	12.840	10.054	9.603	7.255	6.457	7.450	8.837	9.211	11.920	13.640	22.681
	TOTAL OBS	927	846	930	900	930	899	930	930	900	930	900	930	10952
03-05	MEAN	1.6	8.7	20.7	34.4	46.5	54.1	60.0	57.0	49.0	39.5	25.2	11.9	34.2
	S D	14.857	14.704	12.878	9.583	9.441	7.023	6.526	7.270	8.507	9.027	11.837	13.821	22.103
	TOTAL OBS	930	846	930	900	930	900	930	930	900	929	930	930	10955
06-08	MEAN	.8	7.7	20.2	35.6	50.0	58.6	64.8	59.2	49.7	38.8	24.5	11.3	35.2
	S D	15.023	14.868	13.116	10.186	9.417	6.832	6.189	7.015	8.343	8.844	11.745	13.591	23.540
	TOTAL OBS	930	846	930	899	930	900	930	930	900	930	900	930	10955
09-11	MEAN	2.3	10.2	24.2	43.4	58.8	66.6	73.0	68.5	58.7	45.5	27.8	12.7	41.1
	S D	14.993	14.798	12.900	12.506	11.055	7.814	6.480	7.389	9.248	9.140	12.398	13.459	26.356
	TOTAL OBS	930	846	930	900	930	899	930	928	900	930	899	930	10952
12-14	MEAN	6.3	14.8	28.6	48.7	64.0	71.3	78.2	74.4	64.9	51.8	32.1	16.1	46.1
	S D	14.523	14.411	12.726	13.775	12.038	8.520	7.184	8.521	11.002	10.709	13.521	13.378	27.142
	TOTAL OBS	932	846	930	900	930	898	930	930	900	930	899	930	10953
15-17	MEAN	7.3	16.4	30.0	50.7	65.7	72.6	79.6	75.9	66.3	52.7	32.1	16.2	47.3
	S D	14.359	14.260	12.490	14.115	11.935	8.688	7.206	9.056	11.533	11.394	13.710	13.420	27.454
	TOTAL OBS	930	846	930	899	930	900	930	930	900	930	900	930	10955
18-20	MEAN	4.7	13.2	27.2	46.5	61.9	69.1	75.6	71.3	60.1	46.3	27.9	13.8	43.3
	S D	14.611	14.304	12.153	12.846	11.123	8.021	6.734	8.524	10.028	9.733	12.459	13.726	26.569
	TOTAL OBS	930	846	930	900	930	900	930	930	90.	930	900	927	10953
21-23	MEAN	3.1	10.9	23.9	40.1	54.0	61.1	66.6	63.2	53.4	42.7	26.3	13.0	38.3
	S D	14.857	14.387	12.360	10.691	9.757	7.322	6.501	7.703	8.973	9.359	12.367	13.924	23.930
	TOTAL OBS	929	846	930	900	930	900	930	930	900	930	900	927	10952
ALL HOURS	MEAN	3.6	11.5	24.6	42.0	56.2	63.7	69.9	66.1	56.6	44.8	27.7	13.4	40.2
	S D	14.927	14.806	13.142	13.222	12.631	10.169	9.764	10.489	11.572	10.899	12.808	13.748	25.496
	TOTAL OBS	7436	6768	7440	7198	7440	7196	7440	7438	7200	7439	7198	7434	87627

USAFETAC FORM JUL 64 0 89 5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727575 GRAND FORKS AFB ND 73-82
(STATION) (STATION NAME) (YEARS)

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	1.8	8.9	20.5	33.1	44.0	52.5	58.5	55.5	47.0	37.8	23.9	11.5	33.1
	S.D.	14.581	14.079	12.360	9.004	8.856	6.555	5.917	6.618	8.127	8.202	11.104	13.445	21.222
	TOTAL OBS	927	846	924	900	930	899	930	930	900	930	900	930	10946
03-05	MEAN	1.1	7.9	19.4	31.7	42.4	50.9	56.9	54.0	45.8	36.6	23.3	11.0	31.9
	S.D.	14.498	14.282	12.428	8.868	8.992	6.590	6.188	6.777	7.951	8.159	11.143	13.423	20.960
	TOTAL OBS	930	846	924	900	930	900	930	930	900	929	900	929	10948
06-08	MEAN	.4	7.0	18.9	32.7	45.0	54.2	59.7	55.6	46.4	36.1	22.7	10.4	32.6
	S.D.	14.673	14.416	12.639	9.262	8.652	5.951	5.475	6.343	7.729	8.121	11.123	13.253	22.024
	TOTAL OBS	929	846	925	899	930	900	930	930	900	930	900	930	10949
09-11	MEAN	1.8	9.3	22.3	37.7	49.8	58.3	64.0	60.5	51.9	40.8	25.3	11.6	36.2
	S.D.	14.541	14.220	12.103	9.940	8.653	5.749	5.213	5.716	7.281	7.561	11.199	13.068	23.018
	TOTAL OBS	926	846	926	900	929	898	930	928	900	930	898	930	10941
12-14	MEAN	5.5	13.4	25.8	40.7	52.0	60.0	65.7	62.5	54.6	44.2	28.3	14.7	39.1
	S.D.	13.690	13.643	11.398	9.821	8.473	5.808	5.529	6.036	7.574	8.304	11.340	12.795	22.353
	TOTAL OBS	927	846	927	900	930	897	930	930	900	930	899	930	10946
15-17	MEAN	6.4	14.9	26.9	41.7	52.7	60.2	66.0	62.8	54.9	44.5	28.4	14.8	39.6
	S.D.	13.777	13.487	10.982	9.570	8.232	5.829	5.451	6.081	7.553	8.289	11.488	12.863	22.148
	TOTAL OBS	930	845	926	899	930	900	930	930	900	930	899	930	10949
18-20	MEAN	4.1	12.1	24.9	39.5	51.1	59.0	64.8	61.2	52.1	41.1	25.4	12.8	37.5
	S.D.	14.226	13.788	11.209	9.341	8.187	5.891	5.493	6.230	7.618	8.065	11.301	13.281	22.476
	TOTAL OBS	930	846	926	900	930	900	930	930	900	930	900	927	10949
21-23	MEAN	2.6	10.1	22.4	35.8	47.1	55.3	61.2	57.6	48.5	38.9	24.1	12.0	34.8
	S.D.	14.514	13.924	11.816	8.984	8.427	6.223	5.764	6.494	7.793	8.227	11.396	13.454	21.746
	TOTAL OBS	929	846	924	900	930	900	930	930	900	930	900	927	10946
ALL HOURS	MEAN	3.0	10.5	22.6	36.6	48.0	56.3	62.1	58.7	50.2	40.0	25.2	12.3	35.6
	S.D.	14.475	14.213	12.201	10.027	9.318	6.942	6.519	7.078	8.443	8.621	11.438	13.281	22.179
	TOTAL OBS	7428	6767	7402	7198	7439	7194	7440	7438	7200	7439	7196	7433	87574

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727575 GRAND FORKS AFB ND 73-82

(A.W.S.) (STATION NAME) (YEARS)

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01-02	MEAN	-5.6	2.4	15.5	27.7	38.0	49.0	55.8	52.5	43.2	33.1	16.5	5.2	28.1
	S D	18.612	17.167	14.598	10.373	10.988	7.356	6.532	7.071	9.026	9.013	12.626	16.501	23.280
	TOTAL OBS	927	846	924	900	930	899	930	930	900	930	900	930	10946
04-05	MEAN	-6.5	1.4	14.3	26.8	37.2	48.1	54.6	51.6	42.4	32.3	17.9	4.7	27.2
	S D	18.635	17.440	14.785	10.378	10.797	7.291	6.700	7.165	8.758	8.784	12.988	16.610	23.257
	TOTAL OBS	930	846	924	900	930	900	930	930	900	929	900	929	10948
07-08	MEAN	-7.1	.4	13.8	27.4	39.3	50.5	56.7	52.8	43.1	32.2	17.5	3.9	27.7
	S D	19.289	17.711	15.032	10.694	10.477	6.724	6.154	6.765	8.433	8.779	13.012	16.474	24.145
	TOTAL OBS	929	846	925	899	930	900	930	930	900	930	900	930	10949
10-11	MEAN	-5.8	2.5	16.4	29.6	40.7	52.0	58.2	54.8	45.8	34.8	19.2	5.0	29.6
	S D	18.473	17.216	14.194	10.980	11.041	7.160	6.951	7.012	8.382	8.310	12.761	16.377	24.146
	TOTAL OBS	926	846	926	900	929	898	930	928	900	930	898	930	10941
13-14	MEAN	-2.1	6.4	19.1	30.3	40.4	51.7	57.9	54.4	45.8	35.4	20.9	7.7	30.8
	S D	16.816	16.263	13.305	10.656	11.240	7.677	7.862	7.925	9.148	9.126	12.363	15.919	22.774
	TOTAL OBS	927	846	927	900	930	897	930	930	900	930	899	930	10946
16-17	MEAN	-1.0	8.0	20.3	30.4	40.2	51.1	57.5	53.8	45.2	35.0	20.9	7.9	30.9
	S D	16.590	16.087	12.300	10.283	11.453	8.008	7.981	8.025	9.295	9.400	12.422	16.056	22.235
	TOTAL OBS	930	845	926	899	930	900	930	930	900	930	899	930	10949
19-20	MEAN	-3.0	5.8	19.4	30.2	40.2	51.3	57.9	54.1	44.9	34.4	19.3	6.3	30.2
	S D	17.588	16.755	12.794	10.210	11.207	8.041	7.729	7.803	9.015	9.264	12.770	16.565	23.078
	TOTAL OBS	930	846	926	900	930	900	930	930	900	930	900	927	10949
22-23	MEAN	-4.5	3.7	17.5	29.3	39.5	50.5	57.4	53.4	43.7	33.7	18.4	5.5	29.1
	S D	18.213	17.010	13.615	10.278	11.065	7.583	6.780	7.346	8.774	9.258	12.968	16.592	23.350
	TOTAL OBS	929	846	924	900	930	900	930	930	900	930	900	927	10946
ALL HOURS	MEAN	-4.4	3.8	17.0	29.0	39.4	50.5	57.0	53.4	44.3	33.9	19.1	5.8	29.2
	S D	18.066	17.138	14.002	10.559	11.094	7.592	7.207	7.469	8.942	9.068	12.816	16.425	23.327
	TOTAL OBS	7428	6767	7402	7198	7439	7194	7440	7438	7200	7439	7196	7433	87574

USAFETAC FORM 0-8-9-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION GRAND FORKS AFB ND STATION NAME 73-82 PERIOD JAN MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	97.5	88.7	68.7	49.3	26.6	10.9	69.7	927
	03-05	100.0	100.0	100.0	97.0	88.1	68.1	48.7	28.7	10.4	69.6	93
	06-08	100.0	100.0	99.9	96.7	86.4	69.6	48.2	28.2	9.4	69.1	929
	09-11	100.0	100.0	99.9	97.5	88.3	70.1	47.2	25.9	7.0	69.3	926
	12-14	100.0	100.0	99.8	97.6	89.6	67.4	44.1	22.6	7.1	68.3	927
	15-17	100.0	100.0	100.0	98.8	91.7	67.8	46.2	22.2	7.2	69.1	93
	18-20	100.0	100.0	100.0	98.2	90.9	69.8	50.2	26.8	9.9	70.3	930
	21-23	100.0	100.0	100.0	98.3	89.5	70.8	49.9	28.6	11.3	71.5	929
TOTALS		100.0	100.0	100.0	97.7	89.2	69.0	48.0	25.7	9.0	69.4	7428

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | FEB MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90		
FEB	00-02	100.0	100.0	100.0	99.1	90.3	79.8	61.8	31.3	8.7	72.5	846
	03-05	100.0	100.0	100.0	98.9	90.5	79.7	58.2	30.9	9.0	72.1	846
	06-08	100.0	100.0	100.0	99.1	89.6	78.8	56.6	29.4	9.3	71.3	846
	09-11	100.0	100.0	100.0	99.4	90.2	79.3	56.5	22.7	5.9	70.7	846
	12-14	100.0	100.0	100.0	99.2	90.8	75.3	49.4	18.8	4.1	69.4	846
	15-17	100.0	100.0	100.0	99.2	92.3	74.9	49.0	18.7	4.6	69.6	845
	18-20	100.0	100.0	100.0	99.1	92.7	79.0	60.2	28.6	6.7	72.2	846
	21-23	100.0	100.0	100.0	98.8	92.0	79.7	60.0	33.1	8.4	72.7	846
	TOTALS	100.0	100.0	100.0	99.1	91.1	78.3	56.5	26.7	7.1	71.4	6767

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | MAR MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

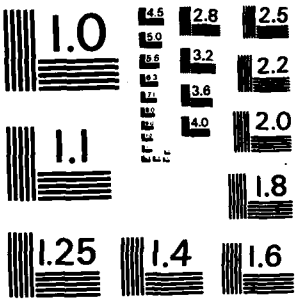
MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	99.6	96.3	87.2	69.5	43.9	13.7	76.7	924
	03-05	100.0	100.0	100.0	99.8	96.2	86.3	70.7	43.5	16.6	76.7	924
	06-08	100.0	100.0	100.0	99.9	95.4	85.9	70.5	41.7	15.6	76.4	925
	09-11	100.0	100.0	100.0	98.5	91.7	81.5	57.7	32.6	10.4	72.8	926
	12-14	100.0	100.0	99.4	96.4	86.8	72.9	47.4	24.5	5.8	68.9	927
	15-17	100.0	100.0	98.5	96.0	87.3	73.5	47.8	23.8	5.8	68.6	926
	18-20	100.0	100.0	99.9	98.5	93.5	83.7	58.4	33.3	10.6	73.3	926
	21-23	100.0	100.0	100.0	99.8	97.2	89.4	69.9	41.8	12.8	76.6	924
	TOTALS	100.0	100.0	99.7	98.6	93.0	82.2	61.5	35.6	11.4	73.8	7422

USAFETAC FORM 0-87-5 (OL A)

AD A131 893 GRAND FORKS AFB NORTH DAKOTA REVISED UNIFORM SUMMARY OF 6/6
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 83
UNCLASSIFIED USAFETAC/DS/83/011 SBI-AD-E850 389 F/G 4/2 NL



END
DATE FILMED
9 83
DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 GRAND FORKS AFB ND 73-82 APR

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	99.3	97.7	91.3	79.3	57.6	33.8	11.8	72.6	900
	03-05	100.0	100.0	99.9	99.0	94.9	83.7	63.1	36.7	14.2	74.7	900
	06-08	100.0	100.0	99.9	98.4	93.0	79.5	60.0	33.7	13.9	73.3	899
	09-11	100.0	99.0	95.3	84.2	70.0	53.2	31.6	16.3	6.2	61.3	900
	12-14	100.0	95.9	84.2	68.6	55.7	37.2	20.9	11.2	3.8	53.3	900
	15-17	100.0	93.2	79.2	63.7	49.3	34.1	19.2	9.0	2.8	50.6	899
	18-20	100.0	97.0	88.1	75.4	62.9	47.9	28.8	13.2	4.4	57.3	900
	21-23	100.0	99.8	97.7	91.7	81.6	67.9	47.1	27.1	8.7	67.8	900
TOTALS		100.0	98.1	93.0	84.8	74.8	60.4	41.0	22.6	8.2	63.9	7198

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | MAY MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.0	91.5	80.3	69.0	49.4	23.2	7.5	67.7	930
	03-05	100.0	100.0	99.9	97.5	88.3	75.5	56.3	29.9	9.1	71.4	930
	06-08	100.0	100.0	99.1	94.6	84.2	68.3	49.8	22.4	5.6	68.2	930
	09-11	100.0	98.4	88.1	72.9	56.1	38.0	21.9	9.1	1.9	59.6	929
	12-14	100.0	92.6	77.1	58.5	37.1	22.7	14.7	6.1	.9	46.1	930
	15-17	100.0	87.5	71.2	49.4	31.7	20.3	12.6	3.9	.6	43.4	930
	18-20	100.0	93.2	80.1	62.4	42.3	27.2	17.2	7.6	1.8	48.9	930
	21-23	100.0	99.7	93.0	82.9	69.8	54.2	35.5	14.8	3.4	61.0	930
TOTALS		100.0	96.4	88.4	75.7	61.2	46.9	32.2	14.6	3.9	57.7	7439

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 GRAND FORKS AFB ND 73-82 JUN
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	99.9	96.4	88.0	70.0	42.9	16.8	77.3	899
	03-05	100.0	100.0	100.0	100.0	99.6	94.6	79.7	51.9	21.3	80.6	900
	06-08	100.0	100.0	100.0	99.8	96.4	84.9	63.6	37.9	14.1	75.6	900
	09-11	100.0	100.0	98.8	88.8	71.0	49.4	29.7	13.5	5.2	61.5	898
	12-14	100.0	100.0	94.4	70.1	47.8	28.0	17.1	8.7	3.2	52.6	897
	15-17	100.0	99.6	89.2	62.6	40.2	25.2	15.1	6.3	1.2	49.6	900
	18-20	100.0	99.9	95.4	76.7	54.6	36.2	23.6	10.1	2.2	55.7	900
	21-23	100.0	100.0	99.9	97.0	87.7	68.7	49.0	27.3	8.3	69.7	900
TOTALS		100.0	99.9	97.2	86.9	74.2	59.4	43.5	24.8	9.0	65.3	7194

USAPETAC FORM AWS 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | JUL MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	98.3	93.7	80.6	51.0	16.1	79.9	930
	03-05	100.0	100.0	100.0	100.0	99.8	97.0	87.3	62.0	20.8	82.8	930
	06-08	100.0	100.0	100.0	99.9	98.3	90.9	71.0	44.2	12.7	77.8	930
	09-11	100.0	100.0	99.6	91.6	74.5	50.3	29.0	11.6	1.3	61.5	930
	12-14	100.0	99.9	94.0	74.1	49.6	26.8	12.2	4.4	.6	51.8	930
	15-17	100.0	99.4	91.9	66.0	40.1	20.4	8.8	3.4	.6	48.7	930
	18-20	100.0	100.0	96.5	83.1	61.4	38.0	18.2	7.0	1.0	56.2	930
	21-23	100.0	100.0	100.0	99.1	94.6	84.4	59.6	30.5	6.1	73.2	930
TOTALS		100.0	99.9	97.8	89.2	77.1	62.7	45.8	26.8	7.4	66.5	7440

USAFETAC FORM 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | AUG MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	99.9	98.4	93.4	79.4	46.3	8.5	78.6	930
	03-05	100.0	100.0	100.0	100.0	99.7	97.7	89.8	62.7	13.8	82.2	930
	06-08	100.0	100.0	100.0	100.0	99.1	94.9	80.0	51.9	12.0	79.9	930
	09-11	100.0	100.0	99.4	94.9	78.9	56.5	32.0	13.7	2.4	63.3	928
	12-14	100.0	99.8	94.6	75.6	45.1	27.2	14.1	5.9	.9	52.0	930
	15-17	100.0	99.4	91.1	63.9	35.3	21.4	11.8	6.0	.8	48.6	930
	18-20	100.0	100.0	97.0	84.3	61.2	37.1	20.8	10.2	1.7	56.8	930
	21-23	100.0	100.0	100.0	98.3	93.3	79.7	55.2	27.4	6.2	71.8	930
TOTALS		100.0	99.9	97.8	89.6	76.4	63.5	47.9	28.0	5.8	66.7	7438

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | SEP MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	99.7	96.1	87.7	69.9	41.3	7.9	76.1	900
	03-05	100.0	100.0	100.0	99.6	98.7	92.7	77.8	49.0	12.8	78.7	900
	06-08	100.0	100.0	100.0	99.9	99.0	92.0	77.2	46.0	13.6	78.6	900
	09-11	100.0	100.0	98.9	93.4	78.9	55.7	36.6	17.3	5.9	64.3	900
	12-14	100.0	98.9	92.1	71.9	48.3	30.1	20.1	11.1	3.0	53.2	900
	15-17	100.0	98.0	85.8	63.8	40.8	26.7	17.8	9.8	2.1	50.0	900
	18-20	100.0	99.7	97.0	86.3	66.7	45.2	27.2	13.4	3.2	59.6	900
	21-23	100.0	100.0	100.0	98.2	91.7	75.9	53.0	25.0	5.3	70.6	900
TOTALS		100.0	99.6	96.7	89.1	77.5	63.3	47.5	26.6	6.7	66.4	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | OCT MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	98.6	93.9	84.8	64.7	36.0	8.6	74.3	930
	03-05	100.0	100.0	100.0	99.9	96.6	89.8	70.3	39.4	10.0	76.2	929
	06-08	100.0	100.0	100.0	100.0	98.6	92.0	74.3	45.1	11.3	77.6	930
	09-11	100.0	100.0	99.9	96.7	85.9	66.0	43.3	22.6	5.9	67.6	930
	12-14	100.0	99.9	95.1	80.3	57.0	36.6	22.6	12.8	4.2	56.5	930
	15-17	100.0	99.8	91.6	72.7	51.2	33.7	21.0	10.5	3.9	54.1	930
	18-20	100.0	100.0	98.8	93.4	80.5	60.1	40.2	21.2	4.9	65.4	930
	21-23	100.0	100.0	100.0	97.2	90.8	77.8	55.4	32.7	6.7	71.8	930
TOTALS		100.0	100.0	98.2	92.4	81.8	67.6	49.0	27.5	6.9	67.9	7439

USAFETAC FORM AUG 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 (STATION) GRAND FORKS AFB ND (STATION NAME) 73-82 (PERIOD) NOV (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	99.9	99.3	93.7	85.1	64.4	30.9	8.8	73.8	900
	03-05	100.0	100.0	100.0	99.1	96.0	86.7	66.6	31.9	9.0	74.4	900
	06-08	100.0	100.0	100.0	99.7	95.3	88.9	67.1	34.9	9.1	75.1	900
	09-11	100.0	100.0	99.9	97.4	90.5	80.5	56.7	27.6	6.8	71.3	898
	12-14	100.0	100.0	97.1	91.4	81.9	65.0	38.2	18.4	5.0	65.3	899
	15-17	100.0	99.4	97.0	92.3	81.9	66.6	39.9	16.4	4.0	65.4	899
	18-20	100.0	99.9	99.4	97.4	90.6	79.8	56.7	26.8	6.1	71.3	900
	21-23	100.0	100.0	99.8	98.3	92.7	83.1	62.3	26.7	7.9	72.9	900
TOTALS		100.0	99.9	99.1	96.9	90.3	79.5	56.5	26.7	7.1	71.2	7196

USAFETAC FORM JUL 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

7[illegible]7575	GRAND FORKS AFB ND	73-82	DEC
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L S T)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	99.4	90.8	78.5	61.3	34.2	9.8	72.9	930
	03-05	100.0	100.0	100.0	98.7	90.3	77.0	61.0	33.7	11.2	72.7	929
	06-08	100.0	100.0	100.0	98.4	90.3	76.6	60.1	31.8	10.8	72.4	930
	09-11	100.0	100.0	100.0	97.8	90.0	75.3	57.6	29.0	10.1	71.5	930
	12-14	100.0	100.0	99.9	97.2	88.3	74.3	51.5	25.5	8.9	69.8	930
	15-17	100.0	100.0	99.9	97.3	86.9	73.2	55.7	25.7	8.5	70.2	930
	18-20	100.0	100.0	100.0	98.4	89.0	76.5	57.7	34.4	10.6	72.2	927
	21-23	100.0	100.0	100.0	98.9	90.1	76.4	58.9	32.8	10.0	72.4	927
TOTALS		100.0	100.0	100.0	98.3	89.5	76.0	58.0	30.9	10.0	71.8	7433

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727575 STATION | GRAND FORKS AFB ND STATION NAME | 73-82 PERIOD | ALL MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	97.7	89.2	69.0	48.0	25.7	9.0	69.4	7428
FEB		100.0	100.0	100.0	99.1	91.1	78.3	56.5	26.7	7.1	71.4	6767
MAR		100.0	100.0	99.7	98.6	93.0	82.2	61.5	35.6	11.4	73.8	7402
APR		100.0	98.1	93.0	84.8	74.8	60.4	41.0	22.6	8.2	63.9	7198
MAY		100.0	96.4	88.4	75.7	61.2	46.9	32.2	14.6	3.9	57.7	7439
JUN		100.0	99.9	97.2	86.9	74.2	59.4	43.5	24.8	9.0	65.3	7194
JUL		100.0	99.9	97.8	89.2	77.1	62.7	45.8	26.8	7.4	66.5	7440
AUG		100.0	99.9	97.8	89.6	76.4	63.5	47.9	28.0	5.8	66.7	7438
SEP		100.0	99.6	96.7	89.1	77.5	63.3	47.5	26.6	6.7	66.4	7200
OCT		100.0	100.0	98.2	92.4	81.8	67.6	49.0	27.5	6.9	67.9	7439
NOV		100.0	99.9	99.1	96.9	90.3	79.5	56.5	26.7	7.1	71.2	7196
DEC		100.0	100.0	100.0	98.3	89.5	76.0	58.0	30.9	10.0	71.8	7433
TOTALS		100.0	99.5	97.3	91.5	81.3	67.4	49.0	26.4	7.7	67.7	87574

USAFETAC FORM JUL 64 0-87-5 (OL A)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F PRESSURE SUMMARY

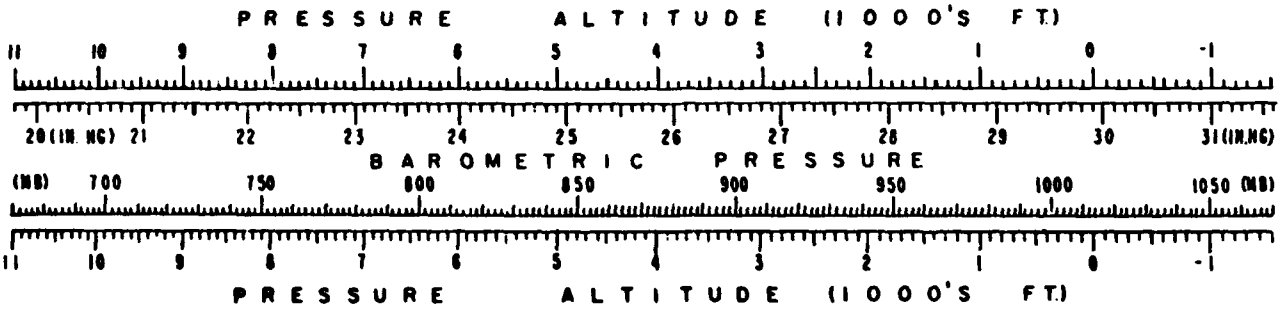
Presented in this part are two tables giving the means, standard deviations, and total number o. servations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



F

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

727575 GRAND FORKS AFB ND 73-82
STATION STATION NAME YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN AV
0	MEAN	29.091	29.092	28.986	29.001	28.934	28.893	28.946	28.959	28.988	28.982	29.033	29.025	28.993
	S D	.285	.288	.248	.231	.183	.173	.156	.163	.199	.233	.262	.291	.237
	TOTAL OBS	309	282	310	300	310	300	310	310	300	310	300	310	3651
3	MEAN	29.093	29.091	28.977	28.996	28.934	28.888	28.945	28.958	28.987	28.981	29.025	29.026	28.991
	S D	.284	.292	.252	.236	.188	.179	.158	.166	.201	.236	.267	.289	.240
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
6	MEAN	29.085	29.093	28.978	29.007	28.948	28.901	28.959	28.958	28.998	28.987	29.023	29.024	28.997
	S D	.287	.294	.258	.243	.191	.184	.160	.168	.201	.236	.270	.288	.241
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
9	MEAN	29.097	29.106	28.994	29.018	28.959	28.908	28.968	28.978	29.008	29.001	29.038	29.039	29.009
	S D	.290	.295	.261	.245	.192	.188	.160	.169	.205	.239	.272	.287	.243
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
12	MEAN	29.098	29.109	28.994	29.009	28.942	28.898	28.960	28.958	28.996	28.993	29.036	29.038	29.003
	S D	.287	.297	.260	.239	.190	.182	.159	.168	.206	.239	.271	.287	.243
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
15	MEAN	29.071	29.080	28.973	28.984	28.913	28.881	28.940	28.944	28.969	28.962	29.016	29.015	28.978
	S D	.285	.291	.250	.228	.185	.177	.158	.163	.204	.235	.266	.285	.238
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
18	MEAN	29.084	29.088	28.973	28.976	28.898	28.868	28.923	28.930	28.964	28.968	29.030	29.028	28.977
	S D	.285	.286	.242	.223	.181	.173	.155	.163	.203	.230	.259	.285	.237
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
21	MEAN	29.086	29.095	28.983	28.999	28.920	28.883	28.935	28.947	28.986	28.978	29.034	29.029	28.989
	S D	.286	.288	.239	.223	.179	.170	.154	.163	.198	.231	.259	.288	.236
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
ALL HOURS	MEAN	29.088	29.094	28.982	28.999	28.931	28.890	28.947	28.956	28.987	28.982	29.032	29.028	28.992
	S D	.286	.291	.251	.234	.187	.178	.158	.166	.202	.235	.265	.287	.240
	TOTAL OBS	2479	2256	2480	2400	2480	2400	2480	2480	2400	2480	2400	2478	29213

USAFETAC FORM 0-8-9-5 (OL-A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

727575 GRAND FORKS AFB ND 73-82
STATION STATION NAME YEARS

HRS	ST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0	MEAN	1021.1	1020.7	1016.4	1016.2	1013.3	1011.6	1013.2	1013.8	1015.1	1015.4	1017.8	1018.3	1016.1
	S D	10.447	10.626	8.976	8.292	6.604	6.144	5.594	5.833	7.215	8.331	9.421	10.644	8.812
	TOTAL OBS	308	282	310	299	310	300	309	310	300	310	300	310	3648
3	MEAN	1021.1	1020.7	1016.1	1016.0	1013.3	1011.4	1013.2	1013.8	1015.1	1015.4	1017.6	1018.3	1016.0
	S D	10.410	10.735	9.149	8.491	6.751	6.385	5.666	5.933	7.297	8.463	9.668	10.538	8.918
	TOTAL OBS	309	282	310	300	310	299	309	310	299	310	300	310	3698
6	MEAN	1020.9	1020.8	1016.1	1016.4	1013.8	1011.9	1013.7	1014.2	1015.5	1015.6	1017.6	1018.3	1016.2
	S D	10.506	10.810	9.330	8.703	6.849	6.508	5.734	6.028	7.194	8.545	9.730	10.508	8.927
	TOTAL OBS	310	282	310	300	310	300	310	310	299	310	300	310	3651
9	MEAN	1021.3	1021.3	1016.7	1016.8	1014.2	1012.1	1014.1	1014.5	1015.9	1016.1	1018.1	1019.8	1016.6
	S D	10.635	10.868	9.501	8.781	6.891	6.638	5.732	6.055	7.348	8.602	9.812	10.415	9.013
	TOTAL OBS	310	282	310	300	310	300	310	310	299	310	300	310	3651
12	MEAN	1021.3	1021.3	1016.7	1016.4	1013.6	1011.7	1013.7	1014.1	1015.4	1015.7	1018.0	1018.7	1016.4
	S D	10.542	10.905	9.386	8.515	6.807	6.473	5.702	5.980	7.396	8.605	9.784	10.474	9.009
	TOTAL OBS	309	282	310	300	310	300	310	310	300	310	300	309	3650
15	MEAN	1020.4	1020.2	1015.9	1015.5	1012.5	1011.1	1013.0	1013.3	1014.4	1014.6	1017.3	1018.0	1015.5
	S D	10.438	10.594	9.056	8.191	6.609	6.332	5.638	5.798	7.316	8.409	9.553	10.307	8.805
	TOTAL OBS	309	282	310	299	310	300	310	310	300	310	300	309	3649
18	MEAN	1020.9	1020.6	1015.9	1015.3	1012.0	1010.7	1012.5	1012.8	1014.4	1015.0	1017.8	1018.4	1015.5
	S D	10.430	10.505	8.745	7.996	6.539	6.102	5.532	5.826	7.267	8.204	9.321	10.326	8.816
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
21	MEAN	1021.0	1020.9	1016.3	1016.1	1012.8	1011.2	1012.9	1013.4	1015.1	1015.4	1018.0	1018.5	1015.9
	S D	10.525	10.563	8.665	8.023	6.410	6.039	5.529	5.843	7.141	8.279	9.358	10.513	8.777
	TOTAL OBS	309	282	310	300	309	300	310	310	300	310	300	309	3649
ALL HOURS	MEAN	1021.0	1020.8	1016.3	1016.1	1013.2	1011.5	1013.3	1013.8	1015.1	1015.4	1017.8	1018.4	1016.0
	S D	10.481	10.691	9.097	8.379	6.707	6.335	5.655	5.926	7.278	8.430	9.572	10.455	8.892
	TOTAL OBS	2474	2256	2480	2398	2479	2399	2478	2480	2397	2480	2400	2476	29197

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