

AD-A141 229

MALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A... FEB 84

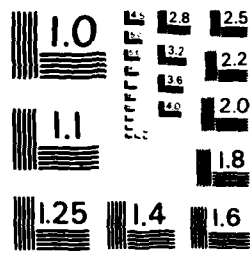
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MICROCOPY RESOLUTION TEST CHART
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AD-A141 229

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REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

15 FEB 1984

MALMSTROM AFB MT MSC #727755
N 47 30 E 111 11 ELEV 3526 FT GFA
PARTS A-F HOURS SUMMARIZED: 0000Z - 2300Z
PERIOD OF RECORD:
HOURLY OBSERVATIONS: NOV 73 - NOV 83
SUMMARY OF DAY DATA: DEC 42 - SEP 45, DEC 45 - NOV 83
TIME CONVERSION GMT TO LST: -7

13 FEB 1984

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER USAFETAC/DS-84/007	2. GOVT ACCESSION NO. AD-A142 657	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Malmstrom AFB, Montana	5. TYPE OF REPORT & PERIOD COVERED Final rept	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s)	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB, IL 62225	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB, IL 62225	12. REPORT DATE Feb 84	
	13. NUMBER OF PAGES 320	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES SUPERSEDES REPT NO. USAFETAC/DS-78/004, AD-A061828, Jun 78.		
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 statistical summary of surface weather observations for Malmstrom AFB, Montana.		
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)		

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables
*Montana *Malmstrom AFB *USMT727755
*Malmstrom Air Force Base *Malmstrom *Gore Field
*Great Falls

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 occurrence or cumulative percentage frequency of occurring tables.

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REVIEW AND APPROVAL STATEMENT

This report, ETAC/DS-34/007 , is approved for public release. There is no objection to unlimited distribution of this report to the public at large, or by Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

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

Wayne E. McCollom

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USAFETAC/TST

FOR THE COMMANDER

Walter S. Burgmann

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A-1	



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
ENVIRONMENTAL TECHNICAL
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: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 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 _____

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
8	Oct 82	1. Same 2. Same	AN/GM -20	RO362	13 Ft	
9	Dec 83	1. Same 2. Same	Same	Same	13 Ft	

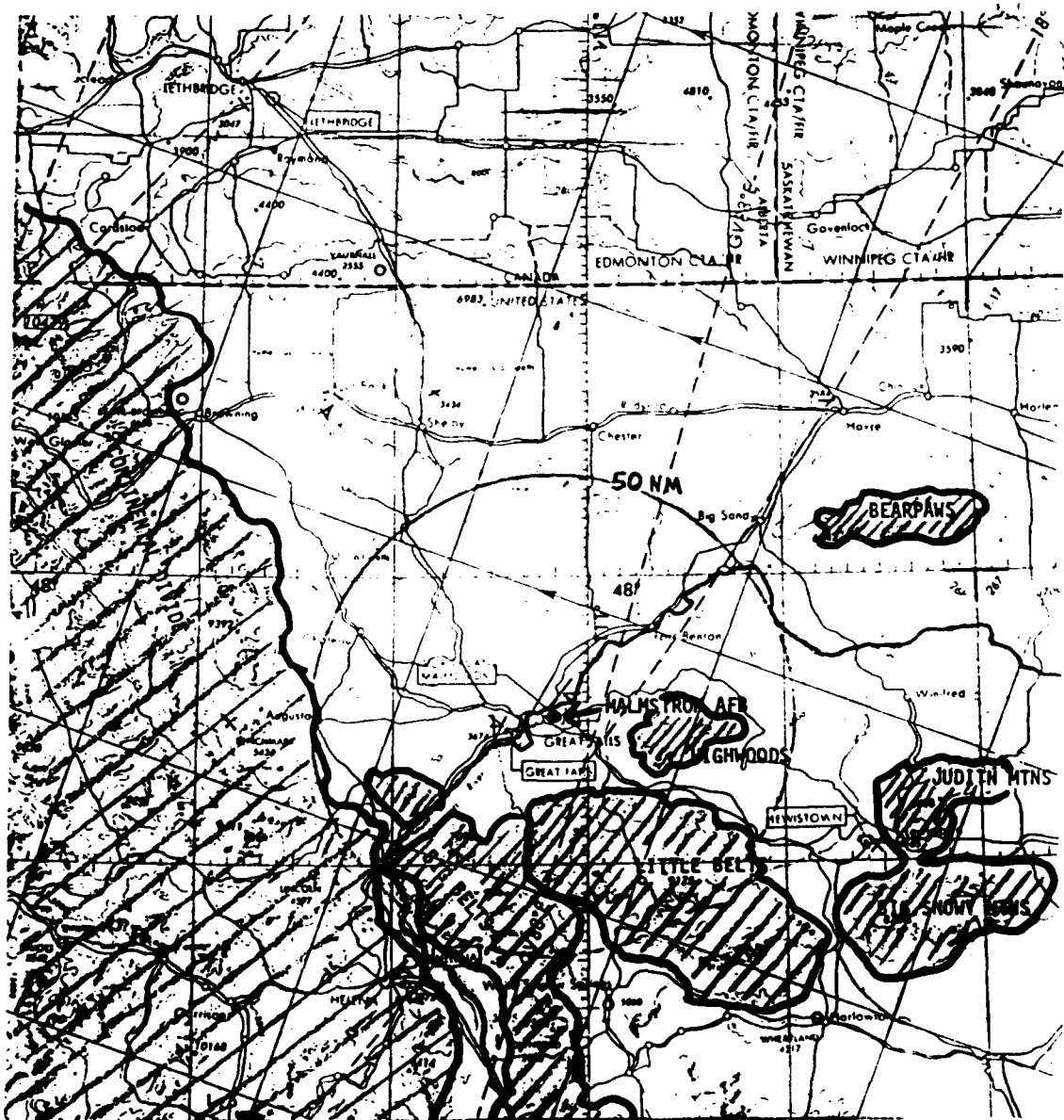
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STATION NO OR SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT)	CALL SIGN	WMO NUMBER
727755	Malmstrom AFB MT/Great Falls	N 47 30	W 111 11	3526	GFA	

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			FIELD (FT)	HT. BARD.	
1	Gore Field, Great Falls MT	AAF	Dec 42	Jan 44	N 47 30	W 111 10	3456	3687	24
2	Same	AAF	Feb 44	Nov 44	Same	Same	3438	3430	24
3	Same	AAF	Dec 44	Nov 45	N 47 31	Same	3442	3447	24
4	Great Falls AAB MT	AAF	Dec 45	Feb 46	Same	W 111 11	3456	3460	24
5	Same	AAF	Mar 46	May 49	Same	Same	Same	3447	24
6	Great Falls AFB MT	AFB	Jun 49	Sep 49	Same	Same	Same	3444	24
7	Same	AFB	Oct 49	May 53	Same	Same	Same	3447	24
8	Same	AFB	Jun 53	Jan 54	N 47 31	W 111 10	3524	Same	24
9	Same	AFB	Feb 54	Feb 57	Same	Same	Same	3465	24
10	Malmstrom AFB MT	AFB	Mar 57	Mar 65	Same	Same	Same	Same	24
11	Same	AFB	Apr 65	Nov 82	Same	W 111 11	3526	Same	24
12	Same	AFB	Dec 82	Dec 83	N 47 30	Same	3526	3465	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	Dec 42	Unknown				
2	Jun 53	Atop hangar	AN/GMQ-1	ML-144C	57 Ft	
3	Feb 54	Atop control tower	Same	Same	112 Ft	
4	Mar 55	Same	Same	None	107 Ft	
5	Apr 58	760 Ft from ctr line	GMQ-11	RO-2/GMQ	15 Ft	
6	Apr 68	1. 500 Ft NW of rwy, 250 Ft SW of Taxiway S	Same	Same	Same	
		2. 1000 Ft SW end of Rwy 20, 500 Ft SE of ctr line	Same	Same	Same	
7	Nov 77	1. Same	Same	Same	13 Ft	
		2. Same	Same	Same	Same	



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 thunderstorms, 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
 APO WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-83
 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		3.8	.1	14.6		17.3	5.5		.6	.1	5.7	937
	03-05		2.6		16.5		17.7	7.5		1.0	.1	7.8	937
	06-08		1.3	.2	18.4		19.0	9.8		1.9		10.5	937
	09-11		2.3	.2	17.2		19.1	9.5		2.2		10.5	937
	12-14		1.2		15.9	.1	17.1	7.2	.1	1.5	.2	8.1	937
	15-17	.2	1.2		14.6	.1	15.7	6.8	.1	1.7		7.5	937
	18-20		2.6		15.2		17.7	7.7		1.4		8.8	937
	21-23		3.3	.1	14.7		17.3	5.5		1.0		6.2	937
TOTALS		.0	2.3	.1	15.9	.0	17.6	7.4	.0	1.4	.1	8.1	7447

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-83
 YEARS

JUL
 MONTH

PERCENTAGE FREQUENCY OF OCCURENCE 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
JUL	00-02	1.0	3.4				3.4	.1				.1	930
	03-05	.4	5.2				5.2	1.1				1.1	930
	06-08	.2	4.0				4.0	1.5				1.5	930
	09-11	.2	4.4				4.4	.4				.4	930
	12-14	.9	3.2				3.2	.3				.3	930
	15-17	3.3	4.6			.1	4.6	.2				.2	930
	18-20	4.3	5.1				5.1				.1	.1	930
	21-23	3.1	5.5				5.5						930
TOTALS		1.7	4.4			.0	4.4	.5			.0	.5	7440

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755 MALMSTROM AFB MT 74-83 OCT
 STATION STATION NAME YEARS 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	HALE	% 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		4.7		3.5		7.4	3.1				3.1	930
	03-05		4.0		4.6		8.1	4.2				4.2	930
	06-08		4.8		5.9		10.2	4.8				4.8	930
	09-11		5.3		5.1		10.2	4.9				4.9	930
	12-14	.1	4.8		4.2		8.8	3.1				3.1	930
	15-17		5.4		2.4		7.2	2.7				2.7	930
	18-20		4.2		3.4		6.4	2.6				2.6	930
	21-23		4.0		3.5		7.4	2.8				2.8	930
TOTALS		.0	4.6		4.1		8.3	3.5				3.5	7407

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

707755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-87
 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		.8	.1	12.4		13.0	4.2		1.3		5.2	977
	03-05		.4		13.6		13.8	4.9		1.2		6.0	900
	06-08		.8		13.2		14.0	6.2		.8		6.7	950
	09-11		.8		12.7		13.4	6.7	.1	1.0	.1	7.0	900
	12-14		1.0		12.7		13.3	5.9	.3	1.3		6.8	900
	15-17		2.1		11.6		13.1	6.1	.1	2.6		7.6	899
	18-20		1.2		11.7		12.8	5.0		1.2		5.9	897
	21-23		.6	.1	12.7		13.0	4.6		1.2		5.6	897
TOTALS			1.0	.0	12.6		13.3	5.5	.1	1.3	.0	6.4	7193

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/HAC

WEATHER CONDITIONS

727755 MALMSTROM AFB MT 73-82 DEC
 STATION STATION NAME YEARS 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		.3	.2	17.0		17.1	6.1		.8		6.6	930
	03-05		.6		16.0		16.5	5.3		.8		5.7	930
	06-08		.4		17.5		17.8	6.0		.3		6.0	930
	09-11		.9		16.0		16.7	7.8	.2	.8		8.3	930
	12-14		1.0		14.2		15.1	7.7		1.0		8.4	930
	15-17		.9	.1	13.8		14.7	6.2		1.0		6.7	930
	18-20		.4	.1	14.2		14.7	5.7		1.0		6.0	930
	21-23		.2	.3	15.9		16.3	5.3		.6		5.6	930
TOTALS			.6	.1	15.6		16.1	6.3	.0	.8		5.7	7440

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

727755 MALMSTROM AFB MT 73-87 ALL
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURENCE 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		.1	.1	72.4		22.6	6.2	.1	.7	.0	6.8	7447
FEB			.9	.0	15.9		16.7	8.1	.1	.8		8.9	6768
MAR		.0	2.3	.1	15.9	.0	17.6	7.4	.0	1.4	.1	9.1	7447
APP		.0	5.1	.1	9.3	.0	13.5	5.8	.0	.3		6.0	7207
MAY		.7	12.7		2.3	.1	14.3	3.2	.0	.0	.5	3.7	7447
JUN		2.4	8.8			.0	8.9	.8	.1			.8	7199
JUL		1.7	4.4			.0	4.4	.5			.0	.5	7447
AUG		1.2	6.0				6.0	.5	.1		.0	.6	7447
SEP		.2	6.3		1.6	.0	7.6	1.4				1.4	7207
OCT		.0	4.6		4.1		8.3	3.5				3.5	7447
NOV			1.0	.0	12.6		13.3	5.5	.1	1.3	.0	6.4	7193
DEC			.6	.1	15.6		16.1	6.3	.0	.8		6.7	7447
TOTALS		.5	4.4	.0	8.3	.0	12.4	4.1	.0	.4	.1	4.5	87640

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 mist and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS** XX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 ATMOSPHERIC PHENOMENA

72755
 STATION

MALMSTROM AFB MT
 STATION NAME

42-87
 YEARS

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		8.2	.5	47.8		52.7	24.2	1.9	4.6		26.3	1277
FEB		.2	10.8	.9	42.5	.1	48.6	22.2	1.9	3.9		24.5	1178
MAR		.3	17.5	.5	41.4	.1	51.1	19.9	1.0	3.3	.1	21.8	1218
APR		2.1	33.2	.8	29.8	.5	48.7	15.8	.6	1.1	.1	16.4	1183
MAY		10.0	54.2	.1	7.5	1.5	51.6	10.1	.7	.2	.2	11.9	1224
JUN		21.2	56.3		.8	2.1	52.0	7.0	.1		.2	7.2	1201
JUL		22.5	40.5		.1	1.8	37.4	2.3	.1		.1	2.5	1211
AUG		18.1	42.5		.1	1.2	39.2	2.5	.2		.2	2.8	1211
SEP		4.1	38.7	.3	6.1	.3	37.0	6.6	.1			6.6	1172
OCT		.8	25.9	1.7	14.7	.3	31.9	9.6	.2	.3		9.8	1188
NOV			15.6	1.1	30.7		40.3	15.6	.7	2.9	.3	16.6	1157
DEC		.1	12.7	1.5	38.9		46.1	20.5	1.3	3.4		21.8	1192
TOTALS		6.6	29.5	.6	21.7	.7	44.7	13.0	.7	1.6	.1	13.9	14272

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

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

- B**
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:

Beginning thru 1945 at 0800LST
Jan 46-May 57 at 1230GMT
Jun 57-present at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52 at 0030GMT
Jul 52-May 57 at 1230GMT
Jun 57-present at 1200GMT

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 PRECIPITATION
 (FROM DAILY OBSERVATIONS)

727755 MALMSTROM AFB MT

42-83

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	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	49.2	24.7	4.5	9.1	6.5	4.4	1.1	.4	.1					26.1	1271	.72	2.46	TRACE	
FEB	52.6	23.4	4.3	8.5	5.2	4.6	1.3	.1						24.0	1158	.56	1.65	.01	
MAR	49.9	23.4	4.2	9.8	4.6	5.3	2.4	.4						26.7	1271	.84	2.49	.09	
APR	57.6	23.4	4.2	8.0	4.6	5.5	2.9	.6	.2					26.0	1230	1.04	3.31	.06	
MAY	46.8	21.7	2.8	7.7	4.0	8.1	4.3	2.8	1.8					31.5	1270	2.54	6.55	.31	
JUN	44.2	19.2	3.7	8.3	6.1	7.8	5.1	3.8	1.6	.2				36.6	1229	2.84	5.57	.24	
JUL	67.9	16.6	2.8	5.9	3.5	5.2	3.1	1.4	.6					22.5	1271	1.28	4.15	TRACE	
AUG	59.6	18.2	2.4	6.0	3.9	4.6	3.4	1.2	.6					22.2	1271	1.27	4.89	.06	
SEP	62.1	15.4	2.9	6.6	3.5	5.4	2.4	1.2	.4					22.4	1230	1.10	3.41	.10	
OCT	67.7	14.2	2.4	5.0	3.9	4.5	1.5	.7	.2					18.1	1240	.76	2.79	TRACE	
NOV	59.8	19.7	2.7	6.7	4.9	4.6	1.2	.2		.1				20.4	1200	.67	3.93	.02	
DEC	56.2	21.5	3.9	7.6	4.0	4.8	1.7	.2	.1					22.3	1271	.69	2.71	.02	
ANNUAL	55.0	20.1	3.4	7.4	4.6	5.4	2.5	1.1	.5	.0				24.9	14912	1.31			

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION STATION NAME

42-43 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42												.73	
43	.47	.17	.19	.68	.20	1.17	.32	.38	.20	.14	.38	.24	1.17
44	TRACE	.39	.18	.35	.34	1.64	.11	.66	.65	.76	.15	.16	1.64
45	.27	.13	.16	.12	.43	.53	.01	.14	.93			.65	
46	.11	.79	.35	.38	.67	1.28	.57	.26	.56	.56	.64	.17	1.28
47	.31	.27	.72	.26*	.20*	1.13	.05	.18	.34	.20	.25	.32	1.13
48	.14	.09	.20	.20	1.14	1.19	.80	.35	.15	.39	.19	1.30	1.37
49	.88	.31	.35	.24	1.72	.73	.84	.15	.26	.40	.01	.30	1.72
50	.25	.01	.50	.29	.22	.64	1.59	2.00	.32	.22	.31	.13	2.00
51	.27	.71	.42	2.32	1.06	.46	1.05	.66	.73	.20	.19	.30	2.32
52	.08	.37	.26	.38	.32	.97	.13	.52	.14	.12	.18	.79	.87
53	.05	.32	.16	.46	2.25	3.21	TRACE	.91	.73	.18	.28	.35	3.21
54	.13	.20	.11	.17	.22	2.24	.41	.82	.73	1.27	.76	.72	2.24
55	.99	.36	.29	.75	1.28	.45	1.05	.05	.07	.33	.46	.34	1.28
56	.27	.08	.12	.24	.31	.72	.51	.35	.18	.24	.11	.78	.72
57	.14	.25	.13	.17	1.79	.74	.24	.33	.65	.14	.39	.25	1.79
58	.17	.44	.15	.25	.64	.97	.67	.21	.11	.16	.23	.70	.87
59	.21	.21	.29	.22	1.41	1.22	.11	.40	.75	.33	1.19	.22	1.41
60	.07	.25	.23	.53	.57	.43	.16	1.35	.13	.25	.37	.76	1.35
61	.28	.27	.47	.18	.64	.23	.53	.12	.39	.12	.26	.12	.64
62	1.11	.14	.20	.38	1.84	1.15	.31	1.16	.28	.75	.18	.18	1.84
63	.18	.13	.31	.43	.87	.79	.43	.27	.14	.33	.17	.10	.87
64	.37	.24	.42	.31	1.64	3.12	.42	.62	.12	TRACE	.23	.78	3.12
65	.64	.23	.29	.35	.51	1.80	.67	.80	.74	TRACE	.50	.30	1.80
66	.62	.31	.53	.39	1.03	.75	.62	1.09	.22	1.04	.31	.25	1.09
67	.34	.13	.84	.67	.48	.80	.99	.12	1.23	.82	.17	.38	1.23
68	.37	.08	.36	.63	1.48	1.06	.10	1.14	1.13	.03	.80	.76	1.48
69	.33	.14	.33	.10	.74	1.86	.50	.12	.10	.19	.11	.32	1.86
70	.26	.37	.22	.39	1.58	1.91	.46	.45	.12	.24	.12	.15	1.91
71	.17	.14	.36	.30	.57	.52	.19	.40	.98	.20	.24	.19	.98
MEAN													
S D													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXXXXX
 MONTHLY PRECIPITATION
 FROM DAILY OBSERVATIONS

727755 STATION MALMSTROM AFB MT STATION NAME 42-83 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42												.17	
43	1.55	.75	.45	1.70	.64	5.57	.84	.93	.54	.28	.41	.27	13.93
44	TRACE	.93	.73	.69	.67	3.79	.32	1.55	1.32	.76	.62	.41	11.07
45	.23	.45	.48	.27	1.51	2.93	.32	.43	2.08				1.52
46	.13	.19	.67	.54	2.03	3.51	1.49	.70	1.76	1.80	1.23	.35	14.40
47	.54	.79	1.18	.24*	.31*	2.22	.29	.30	.99	.36	1.28	.90	9.00
48	.73	.37	.93	.47	3.58	3.38	1.76	.59	.33	.39	.43	2.71	14.97
49	2.46	.73	1.20	.36	2.87	1.70	1.41	.24	.61	.93	.32	.76	12.79
50	.87	.01	1.88	1.13	.66	2.71	3.75	3.20	.44	.75	1.13	.28	15.41
51	.42	.95	1.61	2.24	1.85	2.04	2.88	1.84	1.51	1.04	.35	1.85	18.58
52	.19	.93	.77	.47	1.18	1.11	.13	.78	.19	.12	.75	.79	6.64
53	.19	.61	.88	2.22	5.55	5.19	TRACE	1.40	1.06	.18	.28	1.04	18.80
54	.58	.45	.75	.64	.78	4.42	.72	1.96	1.82	1.72	.78	.72	14.34
55	1.11	1.21	1.52	2.52	4.22	1.12	3.75	.06	.10	.61	2.01	.86	18.89
56	.63	.21	.23	.68	1.44	2.22	1.19	1.20	.74	.75	.19	.59	9.56
57	1.38	.58	.47	.62	2.60	3.10	.48	1.07	1.31	.92	.67	.12	13.33
58	.32	1.65	.56	.52	1.34	4.63	2.26	.61	.15	.39	.63	1.71	14.07
59	.92	.53	.24	.67	3.26	2.38	.21	.60	1.55	1.08	3.93	.25	15.52
60	.20	.42	.79	1.60	2.25	.83	.45	3.74	.47	.75	.67	.10	10.80
61	.10	.33	.67	.84	1.61	.33	1.32	.24	1.58	.24	.79	.20	8.25
62	1.51	.47	.46	.52	5.31	2.70	1.45	1.70	.40	1.54	.28	.71	17.05
63	.81	.21	.36	1.13	1.72	3.21	.24	.42	.49	1.15	.17	.88	11.17
64	.40	.35	1.64	1.70	5.17	4.76	1.59	1.41	.39	TRACE	.70	.87	18.98
65	1.17	1.73	.45	1.57	1.43	5.19	1.77	1.95	1.92	TRACE	1.04	.66	18.11
66	1.71	.82	1.77	.91	1.21	2.38	1.31	1.67	.32	1.72	1.48	.83	15.43
67	.72	.48	2.49	2.21	1.88	3.42	1.53	.24	2.71	1.63	.49	1.72	19.52
68	1.16	.25	.83	1.32	2.88	3.32	.12	2.76	3.41	.04	.87	1.31	18.27
69	1.46	.35	.61	.30	1.44	4.79	1.37	.20	.18	1.03	.13	.50	12.40
70	.96	1.30	.62	.92	4.43	4.50	1.27	.49	.32	.66	.41	.42	16.30
71	.75	.46	.73	.44	2.59	.82	.35	1.50	1.60	.48	.13	.73	12.56
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXXXXXX
 MONTHLY PRECIPITATION
 FROM DAILY OBSERVATIONS

727755 STATION MARMSTROM AFB MT STATION NAME 42-92 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
72	.89	.31	.62	.67	2.27	.24	1.96	1.56	.73	.71	.20	1.21	11.28
73	.09	.20	.26	2.97	1.54	1.35	.29	.99	1.41	.40	.96	1.42	11.36
74	.47	.12	.69	.63	4.33	1.74	.68	4.89	1.01	.43	.20	.19	15.31
75	.86	.31	.75	3.31	3.03	4.64	1.44	2.30	.73	2.79	.54	.20	21.90
76	.27	.28	.40	1.21	1.16	4.04	1.99	2.57	.31	.20	.59	.53	13.55
77	.71	.12	.57	.25	2.59	1.39	2.10	1.88	2.26	.56	.34	1.38	14.25
78	1.14	.83	.22	1.46	4.22	2.37	1.97	1.09	3.04	.25	.99	.72	18.08
79	.57	.43	.66	1.72	.21	1.32	.31	.23	.31	.77	.22	.24	7.49
80	.46	1.16	.81	.57	4.77	3.35	.41	1.07	1.18	1.95	.28	.37	15.68
81	.24	.21	2.31	.09	5.66	1.41	.01	.51	.46	1.02	.20	.22	13.29
82	.77	.83	1.67	.83	3.77	2.60	1.74	.77	1.93	.68	.46	.76	16.67
83	.23	.26	1.44	.40	1.44	3.35	4.15	.53	1.75	.78	1.25		
MEAN	.716	.558	.838	1.082	2.587	2.880	1.283	1.274	1.095	.756	.673	.695	14.423
S D	.533	.370	.563	.785	1.554	1.473	1.034	1.084	.887	.682	.685	.517	3.549
TOTAL OBS	1273	1158	1273	1230	1273	1229	1273	1273	1230	1280	1200	1273	14917

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-883 (OLA)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 SNOWFALL
 (FROM DAILY OBSERVATIONS)

707755 MALMSTROM AFB MT 46-83
 STATION STATION NAME YEARS

PRECIP	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	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	57.7	23.2	9.3	10.5	3.1	1.7	.7	.7	.2					26.1	1178	9.1	23.4	.9	
FEB	55.5	22.3	8.4	8.9	2.6	1.1	.6	.4	.3					22.3	1073	6.7	21.5	.1	
MAR	56.7	20.5	7.9	8.7	2.9	1.6	.6	.8	.3					22.8	1178	8.5	21.8	1.2	
APR	68.3	16.1	5.6	5.8	1.7	1.2	.4	.5	.3	.1				15.5	1147	6.1	20.6	TRACE	
MAY	92.2	4.8	1.1	.8	.4	.4		.2		.1				3.0	1178	1.5	19.3	.0	
JUN	99.1	.5		.2	.1		.1							.4	1147	.2	4.5	.0	
JUL	99.9	.1													1178	TRACE	TRACE	.0	
AUG	99.9	.1													1178	TRACE	TRACE	.0	
SEP	93.4	4.2	.6	.8	.4	.5		.1						2.4	1140	1.1	10.0	.0	
OCT	85.0	8.4	1.9	2.5	1.0	.4	.4	.2	.2					6.6	1178	2.9	13.5	.7	
NOV	67.9	15.4	4.4	7.0	2.5	1.6	.4	.6	.3					16.8	1140	6.9	20.4	TRACE	
DEC	59.3	19.4	7.8	6.5	3.5	2.1	.9	.4						21.3	1147	8.1	18.7	.1	
ANNUAL	77.3	11.2	3.9	4.3	1.5	.9	.3	.3	.1	.0				11.4	13648	51.1			

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNO-FALL

FROM DAILY OBSERVATIONS

72755
 STATION

MALMSTROM AFB MT
 STATION NAME

46-21

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46	2.2	.9	3.5	.1	TRACE	.7	.3	.0	.3	1.4	6.5	6.0	6.5
47	3.1	2.7	7.2	.8	.3	.0	.3	.0	1.7	.2	2.3	2.3	7.2
48	1.4	.9	2.7	2.0	.4	.0	.3	.0	TRACE	3.9	1.9	2.4	3.9
49	3.3	3.1	3.6	TRACE	1.9	.0	.3	.0	2.3	4.0	TRACE	3.0	4.0
50	2.8	.1	4.6	3.4	1.4	4.0	.0	.0	2.7	TRACE	3.2	1.3	4.6
51	2.8	9.8	4.3	1.3	2.5	1.0	.0	.0	.3	1.8	1.9	3.0	9.8
52	.8	3.7	2.6	.2	.7	.0	.7	.0	.0	.0	1.8	.9	3.7
53	.5	3.2	1.5	1.4	1.3	.0	.0	.0	.0	.0	TRACE	3.5	3.5
54	1.3	1.8	1.5	1.8	.3	TRACE	.0	.0	6.3	7.7	.7	.2	7.7
55	8.1	3.6	2.9	7.6	2.4	.0	.1	.0	TRACE	.8	5.8	3.4	8.1
56	2.6	.8	1.2	2.4	2.6	.0	.0	.0	TRACE	1.5	.7	1.1	3.1
57	3.7	2.5	.5	3.9	.7	.0	.1	.0	.5	1.6	3.9	.1	3.9
58	1.1	8.1	2.8	1.0	.7	.0	.7	.0	TRACE	.1	2.6	4.4	8.1
59	5.7	6.0	1.8	1.9	TRACE	.0	.1	.0	.8	1.3	9.5	1.5	9.5
60	.9	2.9	.6	5.5	2.4	.0	.0	.0	.3	TRACE	3.4	1.0	5.5
61	.8	.2	5.5	1.7	TRACE	.0	.0	.0	.1	.5	4.6	1.5	5.5
62	4.6	3.0	1.9	TRACE	TRACE	.0	.7	.0	1.6	.0	1.8	1.9	4.6
63	2.3	1.3	3.1	4.3	TRACE	.0	.3	.0	.0	.0	1.0	1.0	4.3
64	6.1	2.0	3.3	2.5	TRACE	.0	.0	.0	TRACE	TRACE	1.7	3.8	6.1
65	6.4	2.3	.9	2.5	.1	TRACE	.1	.0	2.1	.0	5.0	1.0	6.4
66	5.9	3.1	5.4	1.4	TRACE	.0	.0	TRACE	.7	2.2	3.1	3.0	5.9
67	3.6	1.3	6.3	7.0	3.3	.0	.0	.0	.0	.6	4.9	3.8	7.0
68	3.7	.5	5.6	6.3	.2	.0	.0	.0	3.4	.1	3.4	6.0	6.3
69	7.0	1.6	3.0	1.1	TRACE	2.2	.3	.0	.0	1.6	.5	3.2	7.0
70	2.5	3.9	2.4	9.6	1.4	.0	.0	.0	1.2	1.6	2.5	2.1	9.6
71	3.7	1.6	1.7	1.8	TRACE	.0	.0	.0	TRACE	2.2	1.6	2.8	3.7
72	5.4	5.0	3.6	2.1	TRACE	.0	TRACE	.0	.8	3.6	4.1	3.6	5.4
73	.9	.9	.6	14.5	TRACE	.0	.0	.0	3.2	1.6	5.3	3.5	14.5
74	4.6	.6	1.6	.9	TRACE	.0	.3	.0	.4	.5	TRACE	1.4	4.6
75	3.3	1.4	5.6	5.5	TRACE	.0	.7	.0	.7	5.9	1.7	.7	5.9
MEAN													
S D													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT STATION

44-93

YEARS

24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
76	1.1	1.9	5.5	4.6	TRACE	.0	.0	.0	.0	.3	4.0	3.9	5.5
77	2.4	.7	2.5	1.1	1.6	.0	.3	.0	.0	1.4	2.5	4.5	4.5
78	4.2	7.6	2.9	.7	TRACE	.7	.7	.0	TRACE	TRACE	5.9	6.4	7.6
79	3.0	2.8	3.9	2.5	.9	TRACE	.0	.0	.0	TRACE	1.1	4.2	4.2
80	2.8	4.7	3.4	3.8	.7	.0	.0	.0	.0	6.6	1.5	2.9	6.6
81	1.6	2.1	6.5	TRACE	TRACE	TRACE	.0	.0	.0	4.4	TRACE	1.8	6.5
82	2.5	3.9	9.0	3.4	11.1	.0	.0	.0	TRACE	.8	2.7	4.7	11.1
83	1.0	2.0	4.0	1.4	5.9	.0	.0	.0	3.0	.0	6.0		
MEAN	3.16	2.74	3.39	2.95	1.04	.16	TRACE	TRACE	.80	1.64	2.92	2.94	6.24
SD	1.927	2.214	2.001	2.987	2.111	.744	.000	.000	1.393	2.023	2.260	1.517	2.399
TOTAL OBS	1178	1073	1178	1160	1178	1180	1178	1178	1180	1178	1180	1167	11889

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXXXXX
 MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

72755 MALMSTROM AFB MT
 STATION STATION NAME

46-23 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46	3.2	2.6	4.5	.1	TRACE	.0	.0	.0	.0	4.7	11.3	9.5	34.7
47	5.4	7.9	11.6	1.2	.0	.0	.0	.0	2.4	.2	12.6	6.1	47.4
48	6.7	3.4	9.5	3.8	.4	.0	.0	.0	TRACE	3.9	3.3	6.0	36.7
49	10.6	7.3	13.1	TRACE	2.3	.0	.0	.0	2.3	7.3	TRACE	8.3	47.9
50	9.1	.1	18.8	5.9	1.5	4.5	.0	.0	2.7	TRACE	11.4	2.3	56.3
51	4.3	12.2	16.5	2.2	3.9	1.0	.0	.0	.3	5.5	3.4	18.3	67.6
52	1.9	9.8	6.9	.2	.0	.0	.0	.0	.0	.0	7.5	.9	27.7
53	1.4	6.1	3.1	3.0	1.3	.0	.0	.0	.0	.0	TRACE	10.5	25.4
54	7.4	1.8	8.3	6.1	.7	TRACE	.0	.0	10.0	8.9	.7	.2	47.7
55	9.2	12.6	15.3	19.0	3.9	.0	.0	.0	TRACE	.8	18.1	8.3	86.9
56	6.7	2.1	2.3	5.6	5.7	.0	.0	.0	TRACE	2.2	1.4	8.3	37.9
57	16.3	6.1	2.3	6.4	.0	.0	.0	.0	.5	6.1	5.2	.1	43.7
58	1.7	21.5	6.3	1.6	.0	.0	.0	.0	TRACE	.1	7.8	14.2	53.7
59	20.5	13.7	3.6	3.9	TRACE	.0	.0	.0	.9	7.1	15.4	3.8	62.9
60	3.5	6.2	1.2	12.8	2.9	.0	.0	.0	.0	TRACE	17.6	3.1	39.9
61	1.5	.2	5.5	2.7	TRACE	.0	.0	.0	.1	.5	14.2	3.4	28.1
62	14.6	6.4	3.6	TRACE	TRACE	.0	.0	.0	1.6	.0	1.8	3.4	31.4
63	8.4	2.1	3.6	8.6	TRACE	.0	.0	.0	.0	.0	1.1	8.8	32.6
64	6.3	3.4	10.4	7.4	TRACE	.0	.0	.0	TRACE	TRACE	6.2	10.1	43.7
65	9.4	11.5	5.1	8.8	.1	TRACE	.0	.0	2.9	.0	8.5	7.4	53.7
66	16.9	7.7	10.7	4.0	TRACE	.0	.0	TRACE	.0	2.7	16.7	8.6	66.9
67	8.2	4.8	21.8	20.6	3.9	.0	.0	.0	.0	.6	8.4	17.2	85.4
68	11.5	1.7	9.4	8.5	.0	.0	.0	.0	3.4	.1	4.1	14.0	56.9
69	23.4	4.8	6.6	1.1	TRACE	2.2	.0	.0	.0	.0	4.1	.7	48.3
70	8.9	15.2	5.5	17.4	2.2	.0	.0	.0	1.8	3.3	6.6	6.9	67.8
71	16.4	7.0	6.8	2.3	TRACE	.0	.0	.0	TRACE	4.8	2.1	11.4	50.5
72	17.8	6.7	9.4	2.2	TRACE	.0	TRACE	.0	.8	6.3	4.7	13.4	61.3
73	.9	2.1	1.7	20.5	TRACE	.0	.0	.0	3.9	1.7	15.1	9.1	55.7
74	10.4	1.7	5.4	2.1	TRACE	.0	.0	.0	.4	.7	TRACE	.7	23.4
75	10.7	4.7	12.9	16.9	TRACE	.0	.0	.0	.0	13.3	4.5	2.2	68.7
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LFSS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OEA)

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXXXXXX
 MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT STATION NAME

46-92 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
76	2.7	3.5	6.6	9.3	TRACE	.7	.0	.0	.0	.3	6.2	9.3	37.9
77	7.4	1.3	6.5	1.3	1.6	.9	.9	.9	.0	1.4	4.7	15.6	41.9
78	12.3	17.7	4.2	.7	TRACE	.7	.7	.0	TRACE	TRACE	20.4	19.7	84.7
79	12.4	9.7	8.8	3.7	.9	TRACE	.7	.0	.7	TRACE	3.8	5.1	48.4
80	10.6	13.4	9.5	6.3	.7	.0	.0	.0	.0	13.5	2.7	7.7	63.7
81	4.5	5.8	18.1	TRACE	TRACE	TRACE	.7	.0	.7	6.8	TRACE	7.6	30.7
82	13.5	9.0	21.0	13.5	19.3	.0	.0	.0	TRACE	1.5	9.9	17.8	98.5
83	1.2	2.0	9.6	3.8	8.6	.0	.0	.0	6.9	.0	13.4		
MEAN	9.09	6.72	8.48	6.12	1.51	.20	TRACE	TRACE	1.08	2.91	6.94	8.78	51.09
SD	6.113	5.796	5.367	6.068	1.493	.819	.000	.000	2.111	3.652	5.638	5.166	18.878
TOTAL OBS	1178	1073	1178	1180	1178	1180	1178	1178	1180	1178	1180	1187	11888

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-885 (OLA)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 SNOW DEPTH
 (FROM DAILY OBSERVATIONS)

707755

MALMSTROM AFB MT

42-83

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)													
	NONE	TRACE	01	02	05	06	10	11	25	26	50	51	100	101	250			251	500	501	1000	1001	2000	OVER 2000	MEAN	GREATEST	LEAST				
SNOWFALL	NONE	TRACE	01	04	05	14	15	24	25	34	35	44	45	64	65	104	105	154	155	254	255	504	OVER 504								
SNOW DEPTH	NONE	TRACE	1	2	3	4	6	7	12	13	24	25	36	37	48	49	60	61	70	OVER 120											
JAN	33.3	13.6	11.9	8.8	7.2	13.8	9.8	1.7																53.1	1271						
FEB	42.8	13.8	10.2	8.5	7.4	11.6	4.4	1.2																	43.4	1158					
MAR	54.8	11.6	7.5	6.5	6.7	10.5	2.7	.5																	33.5	1271					
APR	84.6	6.1	3.9	1.3	1.2	1.8	.8	.3																		9.3	1237				
MAY	97.4	1.6	.2	.4	.2	.2	.1																			1.7	1271				
JUN	99.8			.1	.1																					.2	1230				
JUL	100.0																											1271			
AUG	100.0																											1271			
SEP	98.1	1.0	.6	.2		.1																				.9	1230				
OCT	92.9	3.3	1.5	1.0	.8	.5																				3.8	1240				
NOV	67.0	9.7	5.7	4.5	3.3	7.1	2.5	.2																		23.3	1200				
DEC	45.8	13.0	9.7	9.2	6.4	10.0	5.7	.2																		41.2	1271				
ANNUAL	76.4	6.1	4.3	3.4	2.7	4.6	2.2	.3																		17.5	14914				

USAFETAC FORM 0-15-5 (OL A) OCT 75

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

FROM DAILY OBSERVATIONS

727755 MALMSTROM AFB MT
STATION STATION NAME

42-43 YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42													7
43	12	9	4	1	2	0	1	0	TRACE	TRACE	5	3	12
44	TRACE	4	3	7	7	0	0	0	0	0	4	5	8
45	3	5	4	1	0	0	0	0	TRACE			16	
46	2	2	0	0	0	0	0	0	0	2	7	6	4
47	3	4	5	1	0	0	0	0	1	TRACE	4	2	9
48	5	2	4	2	TRACE	0	0	0	0	0	1	2	9
49	6	7	6	TRACE	2	0	0	0	0	1	5	0	7
50	6	3	8	2	TRACE	4	0	0	0	2	3	4	8
51	1	10	15	1	TRACE	2	0	0	TRACE	3	3	11	15
52	10	7	7	TRACE	7	0	0	0	0	0	7	6	17
53	1	2	6	TRACE	TRACE	0	0	0	0	0	TRACE	4	6
54	9	2	4	2	1	0	0	0	1	2	1	TRACE	9
55	9	4	4	13	2	0	0	0	0	TRACE	7	7	13
56	3	3	1	1	3	0	0	0	0	1	4	4	4
57	7	9	2	1	0	0	0	0	1	3	4	TRACE	9
58	1	11	8	TRACE	7	0	0	0	0	TRACE	4	9	11
59	9	17	2	1	0	0	0	0	0	0	11	2	13
60	5	5	4	8	0	0	0	0	0	0	6	3	8
61	2	TRACE	4	2	2	0	0	1	1	1	7	3	7
62	11	3	3	TRACE	7	0	0	0	0	0	2	4	11
63	7	7	TRACE	5	0	0	0	0	0	0	1	7	7
64	6	2	4	4	0	0	0	0	0	0	6	9	9
65	7	5	5	3	0	0	0	0	2	0	5	3	7
66	12	4	6	1	0	0	0	0	0	0	8	7	12
67	4	1	7	7	1	0	0	0	1	0	5	8	8
68	9	3	7	5	0	0	0	0	2	0	0	10	17
69	14	14	8	0	0	0	0	0	1	2	1	4	18
70	5	5	9	7	0	0	0	0	1	3	2	4	9
71	14	3	3	3	0	0	0	0	0	2	2	5	14
MEAN													
SD													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-68-5 (OIA)

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

727755 MÅLMSTROM AFB MT STATION NAME

47-54, 57-83 YEARS

DAILY PEAK GUSTS IN KNOTS

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
47									WSW	W	WSW	WSW	WSW	35
48			W	61S	59SW	43SW	49W	37W	56SSW	43SW	45SSW	45SSW	49SSW	54
49		SW	50WSW	57WSW	46SSW	*47WNW	39SSW	45WSW	*43SSW	61SW	57WNW	62WSW	63W	52 WSW 63
50		WSW	49WNW	45WSW	54WSW	63W	44WSW	43W	50WSW	44WSW	42WSW	50WSW	49SW	43 WSW 63
51		W	46WSW	49WNW	52WNW	36WNW	55NNE	42SW	54WSW	30WSW	33S	47W	48SW	40 WNW 55
52		WSW	44WSW	50WNW	43WSW	*36W	*41W	51NW	58WNW	43WSW	41WSW	43W	44WSW	47 NW 58
53		SSW	52W	48WSW	49WSW	42WSW	53WNW	39W	38WSW	60W	46WNW	35W	43W	57 WSW 67
54		SW	*50											
57											W	51WSW	41	
58		SSW	38SSW	36WNW	37WSW	40W	32WSW	53NW	35W	45WSW	52W	40W	42WSW	46 WSW 53
59		W	39SW	39W	40WSW	41W	38WSW	34W	33WNW	40WSW	48WSW	35WSW	37SSW	40 WSW 49
60		SW	38W	46WSW	37WSW	40WSW	44WSW	41WSW	50N	35WSW	49W	38NW	42SW	34 WSW 52
61		WSW	43SW	48WSW	52WSW	41WNW	41N	40WNW	42WSW	*38W	*43WNW	*41WSW	*45SW	54 SW 54
62		SW	46SW	43SW	39W	50SW	48SW	37N	39SW	41W	44WSW	40SW	62NW	46 SW 62
63		NNW	51W	45S	42SW	37W	36W	49SW	53W	43NW	*35W	*40WSW	*44W	*49 NNW 51
64		SW	44W	41WSW	42WNW	42WSW	40W	43WSW	52SSW	44NW	42W	42SSW	39SW	43 WSW 52
65		WSW	43WSW	53NNW	31W	39SSW	44WNW	39SW	42W	39WSW	34W	53WSW	39WSW	50 WSW 53
66		W	54WSW	43WSW	39WSW	41SSW	45S	35SW	40WSW	41WSW	47W	44SSW	58SSW	45 SSW 58
67		S	54WSW	*51NNE	46WSW	43W	59W	32W	50E	42WSW	41W	60WSW	49SW	45 W 67
68		SW	48SW	36WSW	42WSW	48W	*39WSW	4734*	5022*	5427/	3826/	3926/	4321/	50 22* 54
69		21/	3322/	3824/	3824/	4330/	39 4/	3328/	4125/	5025*	4122*	36	21*	37
70		24/	5028/	5424/	4426/	4824/	3426/	7424/	4828/	4024/	5023/	4125/	4624/	46 26/ 74
71		25/	4824/	4527/	44 5/	4926/	4526/	3628/	3824/	4936/	4229/	5030/	4925/	44 29/ 57
72		26/	5024/	5525/	5325/	4022/	3730/	3927/	5432/	3325/	3124/	3522/	4825/	55 24/ 55
73		25/	3824/	3326/	4328/	4026/	4813/	5326/	4230/	6225/	3525/	4425/	4023/	44 37/ 62
74		27/	5327/	4025/	5428/	4026/	42 2/	3629/	4429/	3225/	3628/	3924/	4424/	54 25/ 54
75		24/	4324/	3624/	4735/	3126/	3524/	3324/	5024/	4128/	3527/	4525/	5123/	46 25/ 51
76		24/	4824/	5025/	4936/	3926/	4127/	5422/	4725/	3732/	3223/	3823/	4223/	45 27/ 54
77		23/	4125/	4425/	4520/	3626/	3527/	3422/	44 2/	4633/	3223/	3922/	4824/	43 22/ 48
78		23/	3323/	3424/	3325/	5426/	3723/	5034/	4526/	5024/	4724/	5025/	6423/	51 25/ 64
MEAN														
SD														
TOTAL OBS														

NOTES * BASED ON LESS THAN FULL MONTHS

USAF ETAC FORM 0-60 (OEA)

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

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

SUPFACE WINDS

FROM DAILY OBSERVATIONS

72755 STATION MALMSTROM AFB MT STATION NAME 47-54, 57-83 YEARS

DAILY PEAK GUSTS IN KNOTS

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
79		23/ 3423/	4426/	4231/	3926/	4025/	4624/	4728/	3425/	3725/	3233/	2923/	51	27/ 51
80		21/ 4624/	3426/	4025/	3410/	3527/	5223/	3826/	4422/	4224/	3424/	4224/	48	27/ 52
81		24/ 2425/	4934/	3678/	4427/	4833/	4072/	4622/	6725/	3623/	4228/	4825/	48	22/ 67
82		29/ 4124/	3727/	4725/	3632/	4731/	3824/	3621/	4827/	3324/	3622/	3022/	52	22/ 52
83		26/ 5923/	4429/	3632/	4025/	3326/	4128/	5023/	6024/	3824/	3731/	43		
	MEAN	44.5	44.4	43.5	42.0	41.9	43.0	45.1	45.0	41.2	42.7	45.9	47.1	56.4
	S D	7.252	7.337	6.292	6.455	6.673	9.082	6.612	9.483	6.879	7.251	8.755	5.299	7.537
	TOTAL OBS	978	899	988	948	980	960	967	995	958	992	964	971	11602

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OEA)

2 (BASED ON LESS THAN FULL MONTHS AND >100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L. 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	.9	.9	.2								3.3	5.4
NNE	1.6	1.7	1.5	.2	.1							5.2	5.5
NE	1.6	2.7	1.1	.8								6.1	6.0
ENE	.5	1.1	.1									1.7	4.4
E	.3	.1										.3	3.0
ESE	.3	.1										.4	3.0
SE	.3											.2	2.0
SSE	.4	.1										.5	3.0
S	1.1	1.2	.3		.2							2.8	5.4
SSW	1.3	3.8	1.6	.4	.3	.3						8.1	7.0
SW	2.3	4.1	5.5	7.0	4.3	1.7	.1					24.0	11.4
WSW	1.8	3.8	5.3	4.8	3.8	1.7						20.4	11.1
W	1.1	2.3	1.4	1.6	.6	.1	.1					7.6	9.7
WNW	.3	1.0	.5	.1								1.9	6.0
NW	.4	.8	.3	.5								2.5	6.1
NNW	.6	.9	.6	.3								2.7	5.7
VARBL													
CALM												12.2	
	15.9	24.3	19.6	16.3	8.4	3.1	.2					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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH
 0300-0500
HOURS (LST)

ALL WEATHER
CLASS

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	1.6	.5	.5	.1							3.4	6.4
NNE	1.7	1.4	1.4	.2	.1							4.8	5.7
NE	1.2	2.7	1.1	.7	.1							4.6	5.6
ENE	.6	.8	.1									1.5	3.8
E	.5	.3	.2									1.1	4.0
ESE	.4	.1										.5	2.6
SE	.5	.2										.8	2.7
SSE	.5	.2	.1									.9	3.5
S	1.7	.8	.7	.2								2.2	4.5
SSW	1.1	3.0	1.7	1.0	.2	.5						7.5	8.2
SW	1.7	6.5	6.9	4.4	2.8	1.3	.2					23.8	10.3
WSW	1.2	4.1	4.7	5.3	3.2	1.3	.1					19.9	11.5
W	1.0	2.7	3.8	2.8	.4	.1						10.8	8.7
WNW	.1	1.1	.3	.1								1.6	5.7
NW	.5	.6	.4									1.6	4.7
NNW	.9	.4	.8	.5								2.6	6.6
VARBL													
CALM												12.5	
	13.7	25.8	22.3	15.3	7.0	7.2	.3					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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH
 2500-0800
HOURS (L.S.T.)

ALL WEATHER
CLASS

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	1.7	1.2	.8								2.7	7.4
NNE	1.1	1.8	1.3	.6								4.8	6.3
NE	.5	1.2	1.1	.2	.1							3.1	6.9
ENE	.5	.9	.5									1.9	4.8
E	1.0	.1										1.1	2.2
ESE	.1											.1	1.0
SE	.2											.2	2.0
SSE	.2	.4										.6	3.5
S	.5	1.0	.5	.3								2.4	6.0
SSW	.9	2.8	1.7	1.1	.3	.1	.1					6.2	8.0
SW	1.2	6.6	6.5	5.5	2.0	1.7	.1					22.8	10.1
WSW	1.7	4.0	5.8	5.9	2.7	1.6	.2					21.9	11.2
W	1.0	2.7	4.0	1.9	.8	.4						11.7	8.6
WNW	.3	.6	.3									1.3	5.3
NW	.4	1.8	.9	.1	.1							3.3	6.2
NNW	.5	.9	.3	.2								1.9	5.4
VARBL													
CALM												13.8	
	11.3	25.7	23.3	16.3	6.0	3.1	.4					100.0	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)

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0930-1100
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	1.3	1.7	.8	.1		.1						4.7	5.6
NNE	1.4	2.8	1.7	.9	.1							6.9	6.5
NE	.9	1.1	1.1	.1	.1							3.2	5.8
ENE	1.0	.4	.5									1.9	4.6
E	.3	.3										.5	3.5
ESE													
SE	.3											.3	1.7
SSE	.8											.9	2.1
S	1.0	1.4	.4	.7								3.7	4.9
SSW	1.7	2.6	1.3	1.1	.8		.1					6.8	8.2
SW	1.6	3.5	7.1	7.1	3.7		.1					24.0	11.3
WSW	1.3	3.3	5.4	5.3	3.5	1.3						20.1	11.7
W	1.7	2.6	2.6	1.9	.9	.3	.2					9.5	9.6
WNW	.2	1.2	.3	.4								2.2	6.7
NW	.6	1.7	.7	.7	.1							2.2	6.7
NNW	.8	1.1	.5	.1	.2							2.7	6.2
VARBL													
CALM												11.9	
	13.3	23.0	21.9	17.4	9.4	2.6	.4					100.0	8.1

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHERED
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	1.6	.9	.9	.7	.1						4.7	7.3
NNE	2.5	2.4	.9	.3		.1						6.1	4.9
NE	1.5	1.9	1.4	.7								5.1	5.4
ENE	.9	1.0	.2									2.0	4.1
E	.9	.1	.2									1.2	3.2
ESE	.2	.3										.5	3.6
SE	.2	.1	.1	.1								.5	5.4
SSE	.3	.1										.4	2.8
S	.5	.5	.1									1.2	4.1
SSW	.9	1.2	.8	1.4	.5	.3						5.1	10.1
SW	.5	2.7	4.1	7.8	3.4	2.7						20.6	13.0
WSW	.8	2.5	4.1	6.7	5.7	1.6	.7					21.5	13.5
W	.9	2.7	2.4	3.3	1.8	.8	.2	.1				12.2	11.6
WNW	.6	1.2	1.0	.5								3.3	6.8
NW	.3	.8	1.1	.4	.2							2.3	8.2
NNW	1.0	.9	1.2	.6	.2							3.9	7.5
VARBL													
CALM												8.8	
	13.0	19.9	18.3	22.4	12.2	4.9	.4	.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)

727755

MALMSTROM AFB MT

74-93

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

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	1.2	.3								5.2	5.8
NNE	2.7	1.7	1.7	1.7								5.7	6.1
NE	1.0	3.1	1.2	.6	.1							6.0	6.2
ENE	2.2	1.6	.4									4.2	3.8
E	.9	.2										1.1	2.4
ESE	.1											.1	3.0
SE	.2	.2										.4	3.5
SSE	.6											.5	2.0
S	.6	.5	.2									1.4	4.0
SSW	1.1	1.6	1.4	1.1	.4							5.6	8.0
SW	.8	2.9	4.8	5.3	2.0	1.6	.1					17.5	11.8
WSW	.6	2.5	4.3	7.1	3.8	1.2	.3	.1				19.9	13.1
W	.3	1.8	3.4	3.2	1.2	.3	.1	.1				10.5	11.1
WNW	.2	.4	.9	.6								2.6	7.9
NW	.3	.8	1.7	.5	.1							2.7	8.0
NNW	.8	1.4	.4	1.0		.1						3.7	7.6
VARBL													
CALM												12.8	
	12.6	22.0	20.2	20.8	7.6	3.7	.5	.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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1977-2000
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	.8	1.3	1.5	.1	.7							3.9	6.9
NNE	1.7	1.7	.6									3.3	4.8
NE	2.4	1.8	1.7	.7								6.1	8.9
ENE	.4	.4	.9									1.7	5.7
E	.2											.2	1.5
ESE	.1											.1	2.0
SE	.5	.1										.6	2.5
SSE	.8	.5	.1									1.4	3.7
S	1.4	2.6	.8	.2								4.9	4.9
SSW	.4	2.9	1.1	1.2	.3	.1						6.0	7.9
SW	1.2	3.9	5.8	5.2	2.8	1.6	.1					20.5	11.4
WSW	.4	3.1	5.3	4.8	3.3	1.7	.3					18.5	12.4
W	.8	1.6	2.4	1.8	.4	.7	.1	.1				7.5	9.9
WNW	.9	.9	.4	.3								2.5	5.5
NW	1.2	1.0	.3	.7								2.7	4.5
NNW	.6	.9	.5	.8	.3							3.1	8.7
VARBL													
CALM												16.8	
	13.0	22.7	21.4	14.8	7.4	3.2	.5	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

937

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755

MALMSTROM AFB MT

74-83

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

2100-2700

CLASS

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	1.5	1.7	1.7	.5	.7	.1						5.3	6.9
NNE	1.6	2.6	1.2	.4	.1							5.8	5.5
NE	1.1	1.1	1.1	.3								3.5	5.8
ENE	.6	1.4	.1	.2								2.4	4.9
E	.8											.9	2.7
ESE	.2	.1										.3	2.3
SE	.2											.2	2.5
SSE	1.2	.1	.1	.1								1.5	3.7
S	1.3	1.6	.5	.1								3.5	4.8
SSW	1.8	4.1	.9	1.1	.4	.4						8.8	7.6
SW	.9	5.7	5.6	5.6	2.6	1.3	.2					21.8	10.9
WSW	.4	2.4	5.8	4.4	3.4	1.6	.1					18.5	12.4
W	1.7	2.2	2.3	1.7	.4	.3	.2		.1			8.2	10.1
WNW	.4	.5	.9	.4		.1						2.3	8.5
NW	.5	1.1	.5	.4	.1							2.7	6.9
NNW	.3	1.0	.3	.3								1.9	6.7
VARBL													
CALM												12.5	
	14.1	25.5	27.4	15.6	7.3	4.7	.5		.1			100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AJP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 STATION MARMSTROM AFB MT 74-83 YEARS JAN MONTH ALL HOURS (LST)

ALL WEATHER CLASS

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	1.6	1.7	.4	.1	.7						4.1 6.4
NNE	1.6	2.7	1.2	.4	.1	.7						5.3 5.7
NE	1.3	1.0	1.2	.3	.1							4.7 5.8
ENE	.8	.9	.4	.7								2.2 4.4
E	.6	.1	.1									.8 2.8
ESE	.7	.1										.3 2.8
SE	.3	.1	.7	.7								.4 3.7
SSE	.6	.2	.7	.7								.8 3.0
S	.9	1.2	.4	.1	.7							2.7 5.7
SSW	1.7	2.7	1.2	1.1	.4	.7	.7					6.8 8.7
SW	1.3	4.5	5.8	6.7	2.8	1.4	.1					7.9 11.2
WSW	1.1	3.2	5.1	5.5	3.7	1.3	.7	.7				7.1 12.1
W	1.7	2.3	2.8	2.3	.8	.3	.1	.7	.7			9.7 9.9
WNW	.4	.9	.6	.3	.7	.7						2.2 6.7
NW	.6	1.7	.6	.3	.1							2.6 6.4
NNW	.7	.0	.6	.5	.1	.7						2.8 7.7
VARBL												12.6
CALM												
	13.4	23.6	20.9	17.4	8.2	3.4	.4	.1	.7			170.0 8.0

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727756
 STATION

MALMSTROM AFB MT
 STATION NAME

74-83
 YEARS

FEB
 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	.6	.8	.6								3.7	6.6
NNE	.7	1.9	1.4	.1								4.1	6.1
NE	.6	2.2	.7	.1								3.7	5.3
ENE	.4	.8										1.2	3.8
E	.5	.1										.5	2.6
ESE	.1	.1										.2	3.0
SE	.5	.1										.7	2.3
SSE	.2	.4										.6	3.8
S	1.8	1.5	.4	.1	.4							4.1	5.5
SSW	.8	3.2	2.2	1.7	.5	.2						8.6	8.5
SW	1.4	4.7	8.7	11.8	1.9	.8	.2					29.7	10.8
WSW	.7	2.4	4.6	5.2	2.1	.9	.1					16.1	11.8
W	.7	1.8	2.2	3.0	.5	.1						8.3	9.9
WNW	.2	.7	.9	.1								2.7	6.6
NW	.1	.8	1.1	.2								2.2	7.4
NNW	.7	.2	.7	.1								1.8	5.5
VARBL													
CALM												13.1	
	10.5	21.6	23.9	23.0	5.3	2.1	.8					170.0	8.0

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0300-0500
HOURLY (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	1.1	.4									2.1	4.8
NNE	.5	2.5	1.7	.5	.7	.7						5.6	7.9
NE	1.1	1.1	1.1	.6	.1							3.9	6.8
ENE	.1	.6	.1									.9	5.0
E	.7											.2	1.5
ESE	.7											.2	2.5
SE	.5											.5	2.5
SSE	.2	.1										.4	3.0
S	.5	1.2	.5	.1								2.2	5.4
SSW	1.9	3.7	2.6	1.5	.6							9.6	7.5
SW	2.1	4.3	9.2	11.1	2.7	.6	.5					70.5	11.1
WSW	.6	2.2	5.7	4.0	3.7	.6	.1	.1				16.3	11.5
W	1.2	2.6	3.7	2.4	.8	.1						10.0	8.9
WNW	.4	.4	1.2	.1								2.0	7.1
NW	.7	.7	.5									1.9	4.8
NNW	.4	.9		.7	.1							1.7	6.8
VARBL													
CALM												12.1	
	11.2	20.6	25.8	27.6	7.6	1.5	.6	.1				100.0	8.2

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)

727755 MALMSTROM AFB MT 74-83 FEB

STATION STATION NAME YEARS MONTHS

ALL WEATHER

CLASS

NOV 60-0800

NOV 60 (L 5 7)

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	.8	.7	.7								2.6	5.9
NNE	.4	1.2	1.7	.6	.1							3.9	8.2
NE	.8	2.1	.8	.4								4.1	5.8
ENE	.5	.1	.1									.7	3.7
E	.6	.1										.7	2.2
ESE			.1									.1	7.0
SE		.1										.1	4.0
SSE	.7	.5										.7	3.3
S	.9	.8	.8	.2	.1							3.0	6.2
SSW	.9	3.7	3.1	3.0	.7	.1						10.8	9.2
SW	1.7	4.3	6.3	10.9	2.7	.2	.2	.1				25.7	10.8
WSW	1.7	2.6	5.1	5.0	2.6	.5						17.4	11.0
W	.9	2.5	3.2	2.7	.4							9.0	8.3
WNW	.5	.5	.6	.7								2.2	7.1
NW	1.4	.8	.5	.1								2.8	4.5
NNW	1.7	.6	.2	.4	.1							3.0	5.2
VARBL													
CALM												13.2	
	13.0	20.0	22.8	23.8	6.0	.8	.2	.1				100.0	7.8

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH
 0000-1100
HOURS (LST)

ALL WEATHER
CLASS

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	1.1	.8	.9	.2							4.7	7.8
NNE	.8	1.8	1.7	.9	.2							5.4	7.9
NE	.8	1.8	1.1	.6	.1							4.4	6.7
ENE	.7	1.2	.5									2.4	4.5
E	.7		.1									.8	2.7
ESE	.4		.1									.5	3.5
SE	.2	.1										.4	2.7
SSE	.4	.4		.1								.9	5.3
S	.5	.2	.5	.2	.1							1.5	7.5
SSW	1.1	.6	2.0	1.7	2.0	.2						7.6	11.9
SW	1.1	2.6	6.3	17.4	5.9	2.0	.4					28.6	13.1
WSW	.2	2.2	4.6	6.1	3.3	1.5	.1					18.2	13.0
W	.7	1.4	1.8	2.1	1.3	.9						8.3	12.1
WNW	.5	.7	.5	.4								2.7	6.1
NW	.6	.7	.9	.1	.1							2.5	6.6
NNW	.7	.2	.4	.4	.2							1.9	7.8
VARBL													
CALM												10.8	
	10.3	15.0	21.2	24.0	13.6	4.7	.5					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 646

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 FEB

STATION STATION NAME YEARS MONTHS

ALL WEATHER 1200-1400

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	1.2	1.5	1.3	.8								4.8	6.6
NNE	1.1	1.9	1.8	.8	.1							5.7	7.2
NE	1.4	2.2	3.4	.5								7.1	6.3
ENE	.9	2.2	.5									3.7	4.6
E	.7	.4										1.1	2.8
ESE	.4	.1	.1									.6	3.8
SE	.1	.1	.2									.5	6.3
SSE	.4	.2										.6	3.2
S	.5	.2	.2	.2								1.2	5.4
SSW	.5	.5	.7	1.8	1.1	.4	.5					5.4	13.7
SW	.1	.7	5.6	8.4	6.6	3.7	.7					25.1	15.3
WSW	.8	.7	1.9	6.1	5.0	2.5	.7	.1				17.8	16.7
W	.5	.8	2.8	2.5	2.7	1.7	.1					10.4	14.1
WNW	.8	.8	.6	.7	.5	.2	.1					3.8	10.0
NW	.1	1.2	.8	.6		.1						2.8	8.7
NNW	.9	1.1	.9	.6	.1							3.7	7.2
VARBL													
CALM												5.8	
	10.5	14.8	20.4	23.0	15.4	7.8	2.1	.1				170.0	11.3

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)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
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	.7	2.1	.9	.4								4.1	5.9
NNE	1.4	2.2	2.2	.4	.1							6.4	6.4
NE	1.2	2.8	2.1	1.1								7.2	6.5
ENE	1.2	2.2	.4	.1								3.9	4.8
E	.9	1.9										2.8	3.8
ESE	.1	.4	.1									.6	5.0
SE	.4	.4	.1									.8	5.7
SSE	.1	.1										.2	3.7
S	.6	.8	.1									1.5	4.2
SSW	.5	.0	1.3	.7	.5	.1						4.2	10.1
SW	.5	1.5	7.4	8.7	4.8	2.7	.1					25.2	13.2
WSW	.5	.5	3.7	7.7	3.1	1.2	.2					16.1	14.2
W	.4	1.3	1.5	4.6	2.1	1.3						17.6	14.0
WNW	.2	1.1	.6	.5	.6	.1						3.1	10.6
NW	.6	1.3	.9	.4								3.2	6.5
NNW	.5	.9	1.4	.6								3.4	7.4
VARBL													
CALM												6.7	
	9.7	20.6	22.2	24.5	11.2	4.7	.4					100.0	9.8

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

1800-2000
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	1.3	1.7	.5	.1	.1							3.7	5.1
NNE	1.2	2.1	1.7	.5	.1							5.6	6.4
NE	1.8	2.7	2.0	.7	.1							6.6	6.2
ENE	1.2	.8	.1									2.1	3.6
E	.4	.2										.6	2.8
ESE	.1	.7										.4	4.3
SE	.5	.5	.1	.1								1.2	4.8
SSE	.9	.2	.4									1.5	4.1
S	.9	1.1	.7	.2								3.7	5.2
SSW	.5	3.4	2.8	1.4	.4							8.5	8.1
SW	.4	3.7	7.3	7.3	2.7	1.2	.1					22.7	11.8
WSW	.5	1.9	3.4	5.4	2.4	.6						14.5	12.1
W	.8	1.4	3.3	3.9	.7	.2						9.9	10.2
WNW	.6	1.3	.7	.2								2.8	5.8
NW	.6	.8	.8	.2								2.6	6.9
NNW	.2	.9	.6	.9								2.7	8.1
VARBL													
CALM												11.6	
	11.8	22.3	24.9	21.2	6.0	2.0	.1					100.0	8.1

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

ALL WEATHER
CLASS

2100-2300
HOURL (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.5	1.3	.7								4.5	6.7
NNE	1.9	2.5	1.9	.8		.1						7.2	6.3
NE	.7	1.9	.7	.2								3.5	5.6
ENE	.4	.5	.1									.9	4.3
E	.4											.4	2.7
ESE	.5		.1									.6	3.9
SE	.1	.1										.2	3.5
SSE	.4	.5	.1									.9	3.8
S	.9	3.2	.7		.1							5.0	5.1
SSW	1.7	3.4	2.4	1.9	.7							12.0	7.9
SW	.8	4.1	8.5	9.6	2.8		.4					26.8	11.2
WSW	.9	2.2	4.4	5.7	1.7	.5						15.4	11.0
W	.5	1.8	1.9	2.2	.4	.1						6.9	9.4
WNW	.2	.7	.6		.1							1.7	6.9
NW	.6	.6	1.1	.1								1.8	7.4
NNW	.2	.6	.8	.2								1.9	7.8
VARBL													
CALM												12.3	
	12.5	23.6	24.6	21.5	5.8	1.3	.4					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 FEB
STATION STATION NAME YEARS

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	.9	1.3	.8	.5	.7							3.6	6.3
NNE	1.0	2.0	1.7	.6	.1	.7						5.5	7.0
NE	1.7	2.0	1.4	.5	.7							5.1	6.2
ENE	.7	1.1	.2	.0								2.0	4.4
E	.5	.3	.7									.9	3.0
ESE	.2	.1	.1									.4	3.9
SE	.3	.7	.1	.0								.5	4.1
SSE	.4	.3	.1	.0								.7	3.9
S	.8	1.1	.5	.1	.1							2.7	5.5
SSW	1.7	2.2	2.1	1.7	.8	.1	.1					8.1	9.3
SW	1.7	3.2	7.4	9.8	3.7	1.3	.3	.7				16.8	12.1
WSW	.7	1.8	4.1	5.7	7.9	1.7	.2	.7				16.5	12.6
W	.7	1.7	2.5	2.8	1.0	.6	.0					9.2	11.0
WNW	.4	.8	.7	.3	.1	.7	.7					2.5	7.8
NW	.5	.9	.8	.2	.7	.0						2.5	6.6
NNW	.7	.7	.6	.4	.1							2.5	7.7
VARBL													
CALM												10.7	
	10.9	19.8	23.2	22.7	8.9	3.1	.6	.7				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 6768

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AID WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 MAR
STATION STATION NAME YEARS 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	1.8	1.4	.8		.1						4.9	6.9
NNE	1.1	1.5	1.2	.3								4.1	5.9
NE	.3	2.2	1.1	.3								3.9	6.4
ENE	.8	.5	.1									1.4	3.5
E	.1	.7										.3	3.7
ESE	.4	.1	.1									.6	3.0
SE	.9	.3	.1									1.3	3.2
SSE	.2	.6	.1	.1								1.1	4.7
S	1.4	1.6	.6	.1								3.8	4.7
SSW	1.8	5.8	2.4	1.6	.3							11.9	6.6
SW	1.2	5.9	8.4	5.5	.9							21.8	8.8
WSW	1.3	3.2	4.3	5.6	1.9	.4	.1					16.9	10.6
W	1.3	1.4	2.4	1.7	.2	.1						7.1	8.1
WNW	.8	.9	.3	.1	.1							2.2	5.8
NW	1.7	.2	.9	.2	.1	.1						2.5	7.3
NNW	.4	1.2	.8	.1	.2	.2						2.9	8.5
VARBL													
CALM												13.3	
	13.8	27.5	24.1	16.5	3.8	1.7	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-03
YEARS

MAC
MONTH

ALL WEATH
CLASS

0700-0500
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	.4	1.5	1.1	.4	.4	.1						4.7	8.5
NNE	1.5	2.7	1.7	.5								6.5	5.8
NE	1.3	1.7	.4	.1								2.8	4.4
ENE	1.7	.2										1.2	2.5
E	.2	.8										1.0	4.0
ESE	.3											.3	2.7
SE	.8	.2										1.7	2.6
SSE	.6	.4	.2									1.3	4.0
S	1.5	1.3	.4	.3								3.5	5.0
SSW	1.6	4.7	1.4	.4	.2							8.8	6.7
SW	1.6	5.4	8.4	5.1	1.4	.2						21.6	9.0
WSW	1.7	4.0	5.7	6.1	1.9	.4						19.1	10.2
W	.6	1.7	2.5	1.5	.3		.1					6.9	9.1
WNW	1.7	.6	.5	.2								2.4	5.2
NW	.4	.5	.5	.3								1.9	7.2
NNW	.8	1.7	1.2	.3	.1	.1						3.4	7.1
VARBL													
CALM												14.5	
	14.6	26.7	24.5	15.4	4.7	.9	.1					100.7	6.7

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
DATE

ALL WEATHER
CLASS

0600-2800
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	1.6	1.5	1.7	.6							5.6	8.6
NNE	.8	2.7	1.4	1.7	.3							5.5	7.9
NE	1.7	1.6	1.1									3.7	4.9
ENE	1.2	.7	.7									1.6	2.9
E	.8	.5										1.3	3.0
ESE	.4	.1	.1									.6	3.3
SE	.9											.8	1.9
SSE	.3	.2	.1	.1								.8	5.3
S	.6	1.5	.5									2.7	5.0
SSW	1.5	3.3	2.7	1.2								8.1	6.5
SW	1.4	5.2	7.6	7.0	.9	.7						22.3	9.2
WSW	.9	3.5	9.1	5.9	1.6	.4	.7					27.5	10.3
W	.9	2.3	2.4	1.1	.3	.7	.1					7.2	8.5
WNW	.4	.4	.3	.1	.1	.1						1.5	7.9
NW	.5	.3	.1	.3								1.3	6.6
NNW	1.7	.5	.4	.2	.1	.1						2.4	6.9
VARBL													
CALM												14.2	
	13.2	23.4	25.9	17.8	4.7	1.1	.3					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 937

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAC
ROUTE

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	1.5	.9	2.0	1.8	.2							6.5	8.3
NNE	2.4	1.1	1.5	.6								5.6	5.5
NE	1.4	1.6	.8									4.2	4.1
ENE	1.4	.0	.1									2.4	3.3
E	1.2	.5		.1								1.8	3.4
ESE	.5	.4										1.0	3.0
SE	.2	.3	.1									.6	4.8
SSE	.4	.2										.6	3.5
S	.1	.5	.2									.9	5.6
SSW	.6	.8	.8	2.4	1.4							5.9	11.8
SW	.6	1.9	3.4	7.6	4.3	.9						18.8	13.7
WSW	.5	1.7	3.2	7.6	4.3	2.5	.2					22.0	14.3
W	.6	3.0	1.7	3.0	1.9	1.7	.2					11.5	12.3
WNW	1.3	1.7	1.1									4.1	4.7
NW	.8	1.1	.8	.5	.1	.1						3.3	7.3
NNW	.6	1.1	.8		.3	.1						2.9	7.2
VARBL												7.8	
CALM													
	14.7	17.7	16.5	25.7	12.6	4.5	.4					100.0	9.6

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)

STATION 727755 STATION NAME MALMSTROM AFB MT YEARS 74-83 MONTH MAP
 CLASS ALL WEATHER HOUR (L E T) 1200-1400
 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	1.8	2.3	2.4	.3							6.4	8.4
NNE	1.0	2.4	1.4	1.0	.5							5.2	7.8
NE	1.5	2.6	1.3	.3								5.7	5.3
ENE	.8	1.7	.5	.1								2.4	5.7
E	.5	.6	.5	.1								1.9	5.5
ESE	.7	.5	.1									.9	5.1
SE	.1	.2										.7	3.3
SSE	.1	.2	.2									.5	5.8
S	.3	.1	.3	.1	.3							1.2	9.5
SSW	.6	.5	1.1	1.2	.8	.2						4.4	11.1
SW	.7	1.4	2.4	6.0	4.3	1.3	.2					15.3	14.5
WSW	.9	1.4	2.2	5.5	5.4	2.4	.6	.2				18.4	15.6
W	1.2	1.7	2.9	4.0	2.4	2.7						14.9	13.4
WNW	.4	1.4	1.2	.9	.3	.2						4.4	9.4
NW	.6	2.5	1.2	.8	.2	.3						5.6	8.1
NNW	.8	1.3	1.4	1.5	.4	.1						5.5	3.4
VARBL													
CALM												3.7	
	10.9	19.7	18.9	23.8	14.9	7.2	.9	.2				100.7	10.9

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
DATE

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	1.7	2.7	2.2	.9	.4						9.2	9.7
NNE	1.7	2.4	3.1	2.7	.2	.1						8.8	8.2
NE	1.4	2.8	2.5	1.2								7.8	6.8
ENE	1.8	1.7	.6	.3								3.8	5.7
E	.8	.6	.7									1.6	4.3
ESE	.3	.1	.3									.8	5.6
SE	.3	.2	.2	.1								.9	5.8
SSE	.2	.1	.5	.1								1.7	6.2
S	.4	.9	.9	.6	.1							2.9	7.9
SSW	.2	1.7	1.7	1.5	1.7	.1						6.2	10.8
SW	.2	2.3	1.9	4.9	1.9	1.1						12.3	12.9
WSW	.3	1.7	1.9	5.3	3.7	2.7	.8					14.3	15.7
W	.6	1.1	2.3	3.2	3.5	2.5						13.2	14.9
WNW	.3	.5	1.4	.6	.3	.2						3.4	10.1
NW	1.7	1.5	1.9	1.2	.4							6.7	8.3
NNW	.5	1.2	1.7	.9	.3							4.6	8.6
VARBL													
CALM												3.1	
	17.9	19.7	24.7	24.2	11.6	6.5	.8					170.0	19.5

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)

727755 STATION MALMSTROM AFB MT 74-83 YEARS MAC MONTHS
 ALL WEATHER CLASS 1822-2000 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	.5	2.9	2.5	1.8	.3	.1						8.2	8.4
NNE	1.3	3.7	2.8	1.5	.2	.1						9.6	7.6
NE	1.4	2.0	2.0	.4								6.8	6.7
ENE	1.4	1.1	.3	.3								3.1	4.7
E	1.4	.3	.2									1.9	2.9
ESE	.3	.6		.2								1.2	5.5
SE	.3	.8	.7									1.3	4.9
SSE	1.7	.5	.1									1.6	3.7
S	1.6	2.8	2.0	.4								6.9	5.8
SSW	.8	2.7	2.8	.9								7.1	7.1
SW	.7	4.7	4.7	3.9	.9	.2						13.1	9.9
WSW	.1	1.8	3.2	5.3	1.8	.4	.1					12.8	12.2
W	.3	1.1	2.2	2.7	.9	.3						7.4	11.5
WNW	.1	1.2	1.3	.6	.2							3.4	8.9
NW	.3	.3	.8	.1								1.5	6.8
NNW	.8	1.7	1.1	1.0	.4							4.9	8.7
VARBL													
CALM												9.1	
	11.8	28.4	25.5	19.1	4.7	1.2	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
MONTHS

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	1.7	1.6	1.6	1.2	.3	.1						5.8	8.2
NNE	1.3	2.7	1.3	.9	.4	.1						6.7	7.2
NE	.8	3.1	.4	.3	.2							4.9	6.0
ENE	.5	.6										1.2	3.5
E		.1		.1								.2	8.5
ESE	.1	.3	.1									.5	5.7
SE	.2	.9	.1	.1								1.3	5.5
SSE	.8	.8	.5	.1								2.2	5.2
S	1.8	3.9	1.5	.2								7.4	4.9
SSW	1.7	5.5	2.9	1.4	.2							11.0	6.9
SW	.8	5.4	7.1	4.8	1.0	.1						19.1	9.1
WSW	.4	1.8	3.5	6.1	1.1	.1						13.1	10.9
W	.5	1.3	2.2	1.8	.2							6.0	9.1
WNW	.4	.6	.4	.4	.1							2.7	7.2
NW	.3	.9	.6	.1								1.9	6.1
NNW	.6	1.5	1.5	.3	.2							4.2	7.2
VARBL													
CALM												12.5	
	10.5	31.0	23.9	18.0	3.8	.4						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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAR
MONTH

ALL WEATHER
CLASS

ALL
MOON (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	1.7	1.9	1.4	.4	.1						6.6	8.5
NNE	1.3	2.3	1.8	1.0	.2	.0						6.6	7.1
NE	1.2	2.2	1.2	.3	.0							5.1	5.7
ENE	1.1	.7	.2	.1								2.1	4.1
E	.6	.5	.1	.0								1.2	4.0
ESE	.3	.3	.1	.0								.7	4.3
SE	.4	.4	.1	.0								.9	4.1
SSE	.5	.4	.2	.1								1.1	4.7
S	1.0	1.6	.8	.2	.1							3.7	5.6
SSW	1.0	3.1	1.9	1.3	.5	.0						7.9	7.8
SW	.8	3.9	5.4	5.6	1.9	.5	.0					18.1	10.5
WSW	.7	2.3	4.0	6.2	2.6	1.1	.3	.0				17.2	12.5
W	.8	1.7	2.3	2.4	1.2	.8	.1					9.3	11.6
WNW	.6	.9	.8	.4	.1	.1						2.9	7.6
NW	.6	.9	.8	.4	.1	.1						3.0	7.6
NNW	.7	1.2	1.1	.5	.3	.1						3.9	8.0
VARBL													
CALM												9.8	
	12.5	24.1	22.9	20.1	7.4	2.8	.3	.0				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

7490

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 APR
STATION STATION NAME YEARS MONTH

ALL WEATHER 0000-2000
CLASS HOURS (L & 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	1.8	.8	.8	.1							4.2	7.3
NNE	.6	1.3	2.1	.8	.4							5.2	8.5
NE	.9	.9	.9	.8	.2							3.7	7.7
ENE	.4	.9		.1								1.4	4.7
E	.6	.2	.1									.9	3.8
ESE		.4		.1								.6	6.4
SE	.7	.9	1.4									3.0	6.2
SSE	.9	1.1	1.2	.2								3.4	5.8
S	1.6	4.6	2.3	.1								8.6	5.5
SSW	1.4	5.4	2.3	.4								9.7	5.7
SW	2.1	6.2	7.1	2.2	.7	.1						18.4	7.6
WSW	1.0	4.4	5.2	4.1	.2							15.7	8.6
W	.3	1.6	2.1	2.0	.3							6.3	9.4
WNW	.6	.7	1.2	.1								2.6	6.3
NW	1.0	1.3	.8	.2								3.3	5.3
NNW	.3	1.2	.6	1.0								3.1	7.9
VARBL													
CALM												10.6	
	13.1	33.0	28.2	13.0	2.0	.1						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APP
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	1.6	1.1	.7	.2							5.7	6.6
NNE	.6	1.2	1.0	.3	.3							3.4	7.5
NE	.7	1.0	.4	.8	.2							3.1	8.1
ENE	.3	.4		.1	.1							1.7	6.3
E	.4	.2	.1									.8	3.1
ESE	.3		.1									.4	3.5
SE	.2	.3	.2	.2								1.7	7.1
SSE	.9	1.2	.1									2.2	3.8
S	2.7	3.4	.7									6.1	4.4
SSW	2.7	4.6	1.2	.4								8.9	4.9
SW	1.4	7.7	8.6	3.3	.6	.1	.1					21.8	7.9
WSW	1.7	5.7	4.7	3.7	.4							16.1	7.9
W	1.6	3.2	2.4	1.7								8.9	7.1
WNW	.6	1.2	1.0	.1								2.9	6.0
NW	.3	1.2	.7	.4								2.7	7.1
NNW		.8	.8	.9								2.4	8.8
VARBL													
CALM												13.2	
	15.1	33.8	23.1	12.7	1.9	.1	.1					100.0	6.0

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)

727755 MALMSTROM AFB MT 74-P3 APP
STATION STATION NAME YEAR MONTH

ALL WEATHER 0600-0800
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	1.7	1.3	1.4	.6	.2	.4						5.7	7.7
NNE	.6	1.6	1.1	.1								3.3	5.9
NE	.3	.9	.6	1.3								3.1	9.3
ENE	.3	.3		.1								.8	4.7
E	.3	.1	.3									.8	5.0
ESE	.3											.3	1.3
SE	.8	.3										1.1	3.1
SSE	.7	.6	.2									1.4	4.2
S	2.2	1.4	.7	.4								4.8	5.1
SSW	1.2	2.7	1.2	.6								5.7	6.1
SW	2.1	6.3	7.6	5.0	1.4	.5						22.7	9.0
WSW	1.4	5.3	4.8	3.9	.8	.2	.1					16.6	8.8
W	1.2	3.2	2.0	1.7	.2	.1						8.4	7.6
WNW	.7	1.3	1.2	.2								3.4	6.1
NW	.6	.4	.9	.6	.1							2.6	8.2
NNW	1.0	1.1	1.0	1.0	.2							4.3	7.8
VARBL													
CALM												15.0	
	15.4	27.0	23.0	15.4	3.0	1.0	.1					100.0	6.6

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)

727755 MALMSTROM AFB MT 74-93 APP
STATION STATION NAME YEARS MONTH

ALL WEATHER 0900-1100
CLASS HOUR (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	1.6	1.7	.8	.3	.2						6.4	7.3
NNE	1.8	1.7	1.7	.1	.1							4.7	5.2
NE	.9	1.9	.9	.9	.2							4.8	7.2
ENE	.6	.6	.4	.1								1.7	5.4
E	.4	.7	.1									1.2	4.2
ESE	.8	.7										1.0	2.8
SE	.6	.2										.8	2.6
SSE	.1	.2	.1	.1								.6	6.4
S	.6	.9	.2	.9	.1	.1						2.8	8.5
SSW	.8	.7	1.7	2.1	.4							5.0	10.5
SW	1.0	2.0	3.2	5.3	1.8	.3						13.7	11.3
WSW	1.1	1.6	3.9	7.9	2.9	1.1	.1	.1				18.7	12.8
W	2.0	3.3	5.7	5.0	2.6	.2	.1					18.9	10.3
WNW	.9	.9	.9	1.0	.2	.2						4.1	8.7
NW	.4	1.4	1.2	1.3	.1							4.6	8.4
NNW	.4	.9	1.7	1.2	.1							4.3	8.9
VARBL													
CALM												6.9	
	14.2	18.7	22.0	26.8	8.9	2.2	.2	.1				100.0	9.0

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)

707755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
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	2.4	3.2	1.7	.3	.1						8.4	8.5
NNE	1.4	1.9	1.1	.9								5.3	6.1
NE	.8	2.3	1.6	.9	.2	.1						5.9	7.7
ENE	.6	1.2	.9	.4		.1						3.2	7.1
E	.9	1.3	.2									2.4	4.3
ESE	.4		.3									.3	4.7
SE	.3		.1	.1								.6	5.8
SSE	.2	.3	.1									.7	4.5
S	.4	.8	1.0	1.1	.2							3.6	9.5
SSW	.6	.9	1.2	2.4	.1	.2						5.4	10.3
SW	1.4	1.9	3.2	4.0	.7	.4						11.7	10.2
WSW	.7	1.3	3.9	5.9	2.2	1.1	.2					15.3	12.8
W	.9	2.0	4.2	5.2	2.3	.8	.2					15.7	12.1
WNW	.3	1.3	1.9	1.0	.4	.1						5.1	9.4
NW	1.0	.7	2.1	1.0	.4	.2						5.4	9.2
NNW	1.1	1.3	2.0	1.6	.4							6.4	8.7
VARBL													
CALM												4.0	
	11.8	19.8	27.1	26.2	7.4	3.2	.4					100.0	9.4

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-93
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	1.3	1.4	2.7	1.6	.1							7.1	8.0
NNE	.6	1.2	2.7	1.8	.2							6.4	8.9
NE	1.0	1.3	2.1	1.2	.2							5.9	7.8
ENE	.6	.4	1.9	1.1	.2	.1						4.3	9.6
E	.4	1.2	1.2	.8	.1							3.8	7.8
ESE	.3	.6	1.0	.7								2.1	6.8
SE	.2	.3	.6	.1	.1							1.3	7.7
SSE	.6	.7	.1	.3								1.7	5.9
S	.7	.9	.8	.8								3.1	7.2
SSW	.4	1.6	2.1	1.2	.3							5.7	8.7
SW	.4	2.4	2.0	3.9	.7	.1						9.6	10.3
WSW	.4	1.1	2.4	4.9	3.2	1.0	.3					13.4	14.1
W	.6	1.4	5.3	4.9	1.9	.8	.1					15.0	11.9
WNW	.9	.9	2.7	1.4								5.2	8.3
NW	.6	1.2	2.2	1.0	.4	.4						5.9	9.8
NNW	.2	1.4	2.7	1.3	.4	.1						6.2	9.7
VARB													
CALM												3.2	
	9.2	18.2	31.8	26.6	8.0	2.6	.4					100.0	9.6

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)

STATION 727755 MALMSTROM AFB MT 74-83 APD
STATION NAME YEARS MONTH
ALL WEATHERD 1800-2000
CLASS 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	1.4	1.2	1.7	.2							5.4	8.2
NNE	.4	1.9	2.7	2.0								6.3	8.3
NE	.8	2.2	1.6	1.3	.2							6.1	8.1
ENE	.7	1.2	2.0	1.1	.1							5.1	7.9
E	1.6	1.7	.8	.2								4.2	5.1
ESE	.2	.3	1.4	.7	.6							2.8	10.8
SE	.9	.8	.9	.8								3.3	7.3
SSE	.2	1.1	.6	.2								2.1	6.6
S	1.6	3.2	1.1		.1							6.7	5.1
SSW	.2	2.2	2.3	.2	.3							5.3	7.3
SW	.4	4.7	2.8	1.8	.2							9.2	7.8
WSW	.2	1.3	3.3	6.4	1.1	.2	.1					12.3	11.7
W	.3	1.1	3.3	4.0	1.2	.7	.1					11.2	12.0
WNW	.3	1.4	1.2	1.4	.2		.1					3.9	9.1
NW	1.3	1.3	1.0	1.1	.2							5.7	7.4
NNW	.6	1.1	1.4	1.2								4.3	8.3
VARBL												7.2	
CALM													
	10.7	26.0	26.6	24.2	4.6	.4	.3					170.0	8.1

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

APP
MONTH

ALL WEATHER
CLASS

2100-2300
OURS (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	.8	1.3	.8	.2							4.7	8.1
NNE	.7	1.1	1.8	1.0								4.6	7.6
NE	.8	1.6	2.4	1.0								5.8	7.6
ENE	.9	1.6	.6	.1	.1	.1						3.3	5.9
E	1.7	.8	.6									2.3	4.7
ESE	.4	.4	.1	.7								1.7	7.5
SE	.3	1.3	1.2	.8								3.7	7.7
SSE	1.2	1.6	2.2									5.0	5.8
S	1.7	4.9	3.3	.1	.1							10.1	5.8
SSW	.8	2.8	2.1	.1								5.3	6.1
SW	.8	6.4	7.9	1.8	.1							17.0	7.5
WSW	.4	2.7	4.4	3.8	.6							11.9	9.4
W	.2	1.8	2.8	2.0	.2	.3						7.3	9.7
WNW	.7	.8	1.6	.1	.4							3.6	8.1
NW	.4	.9	1.2	.4								3.0	7.1
NNW	1.7	.6	1.3	.8	.3							4.7	8.2
VARBL													
CALM												7.0	
	12.2	29.9	34.9	13.4	2.1	.4						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83
 STATION STATION NAME YEARS SPD 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	1.5	1.7	1.1	.2	.1						5.3	7.8
NNE	.8	1.5	1.6	.9	.1							4.9	7.4
NE	.8	1.5	1.3	1.4	.2	.7						4.8	7.9
ENE	.5	.8	.7	.4	.1	.7						2.6	7.2
E	.7	.8	.4	.1	.7							2.1	5.3
ESE	.4	.2	.3	.2	.1							1.2	7.1
SE	.5	.5	.6	.2	.7							1.8	6.6
SSE	.6	.8	.6	.1								2.1	5.5
S	1.3	2.5	1.3	.4	.1	.7						5.6	5.9
SSW	1.0	2.6	1.7	.9	.2	.7						6.4	7.1
SW	1.2	4.6	5.3	3.4	.8	.2	.7					15.5	8.8
WSW	.9	2.9	4.1	5.7	1.4	.5	.1	.7				14.9	10.7
W	.9	2.2	3.5	3.4	1.1	.3	.1					11.5	10.4
WNW	.6	1.7	1.4	.6	.2	.7	.7					3.8	8.7
NW	.7	1.1	1.3	.8	.2	.1						4.1	8.1
NNW	.6	1.1	1.4	1.1	.2	.7						4.4	8.6
VARBL													
CALM												8.4	
	12.7	25.8	27.1	19.8	4.7	1.3	.2	.0				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.6	1.4	1.4	.3	.2	.1						4.1	7.6
NNE	.5	1.4	1.1	.5	.2							3.9	7.3
NE	1.3	1.3	1.1	.4								4.1	5.8
ENE	.9	.2										1.1	2.8
E	1.1	.8	.1									1.9	3.7
ESE	.8	.8	.4	.2	.1							2.3	5.9
SE	.5	1.3	.4									2.3	5.1
SSE	.9	1.6	.3	.1								2.9	4.9
S	3.7	4.5	1.5	.1								9.1	4.6
SSW	1.9	5.3	1.4	.9								9.5	5.4
SW	1.4	6.7	5.1	1.9	.3							14.7	7.3
WSW	.5	5.2	4.8	2.8	.5	.1						14.7	8.3
W	.8	2.9	3.2	1.0	.3							8.2	7.7
WNW	.5	1.9	1.3	.6								4.4	6.6
NW	.5	.9	1.7	.8	.1							3.2	7.9
NNW	.5	1.1	.9	1.7	.1							3.5	7.9
VARBL													
CALM												11.3	
	15.8	36.5	24.0	10.6	1.9	.2						170.0	5.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.2	1.4	1.3	.8	.1							3.8	8.1
NNE	1.1	1.4	1.7	.5	.2							4.9	7.2
NE	.6	1.3	.4	.4								2.8	5.9
ENE	.8	.1		.1								1.0	3.6
E	.4	.4	.2	.1								1.2	5.6
ESE	.5	.4	.1									1.1	3.7
SE	.7	.3		.1								.6	4.8
SSE	1.2	.9	.1									2.2	3.4
S	3.4	4.7	1.1	.1								8.6	4.4
SSW	1.9	4.8	2.6	.2								9.6	5.4
SW	2.7	6.1	6.8	1.6	1.7							17.5	7.4
WSW	2.7	5.6	5.5	2.5		.1						15.7	7.3
W	1.2	3.7	2.2	.6	.7							7.2	6.6
WNW	.6	1.6	1.1	.4	.1							3.9	6.9
NW	.3	1.7	.8	.3								2.4	6.7
NNW	.4	1.4	.8	.9	.5							4.7	9.1
VARBL													
CALM												13.7	
	17.1	33.8	24.5	8.7	2.2	.1						170.2	5.7

TOTAL NUMBER OF OBSERVATIONS

930

GLOPAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 MAY

STATION STATION NAME YEARS MONTH

ALL WEATHER 2600-0800

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	1.1	1.5	1.7	2.4								6.1	8.6
NNE	.9	1.4	1.3	1.8	.2							5.6	8.5
NE	1.1	.9	.8	.3	.1							3.1	6.2
ENE	.5	.3	.1	.3								1.3	6.4
E	.4	.5										1.0	3.6
ESE	.6	.2	.1									1.0	3.1
SE	.5	.6	.1	.1								1.4	4.3
SSE	1.4	.4	.1									1.9	3.3
S	1.7	1.4	.3	.3								3.8	4.5
SSW	1.5	2.7	1.9	.4								5.9	5.9
SW	2.4	3.7	6.8	3.9	.9	.7						17.1	8.6
WSW	1.4	4.7	5.7	5.4	1.3							17.7	9.5
W	1.9	5.5	3.7	1.2								12.3	6.2
WNW	.5	1.4	.5	.3	.1							2.9	7.0
NW	1.2	.8	.3	.5	.4	.2						3.4	8.5
NNW	.2	.5	1.3	.6	.3							3.0	9.8
VARBL													
CALM												12.5	
	17.4	24.5	24.2	17.6	3.3	.4						100.7	6.7

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)

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0900-1100
HOURLY (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	1.5	1.2	1.4	1.8		.1						6.3	7.8
NNE	1.1	1.4	1.9	1.7	.3		.1					6.6	9.0
NE	1.4	1.0	1.2	1.0	.2							4.3	8.0
ENE	.4	1.5	.7	1.4	.1	.1						3.2	8.4
E	1.7	1.0	.3	.1								3.1	4.1
ESE	.6	.9	.2									1.7	4.3
SE	.3	.7										.5	3.4
SSE	.1	.4	.1									.6	4.8
S	1.0	.8	.4	.7								2.4	5.2
SSW	.6	1.3	1.0	.4								3.3	6.4
SW	1.0	1.8	2.7	4.5	1.7	.3						12.0	11.0
WSW	.6	2.4	4.3	6.7	2.4	1.2						17.5	12.1
W	2.4	3.7	5.2	3.7	1.5	.3	.1					16.8	9.2
WNW	1.4	1.9	1.7	.5								5.1	5.9
NW	1.4	1.6	1.2	1.2	.2	.1						5.7	7.5
NNW	.9	1.3	1.6	.9	.1							4.7	7.6
VARBL													
CALM												6.3	
	15.9	22.3	22.9	23.7	6.6	2.2	.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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-23
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	1.2	1.7	1.7	1.3	.4	.1						6.5	8.3
NNE	.5	2.3	3.0	1.8	.9							8.5	9.2
NE	.5	1.8	2.2	1.8	.1							6.5	8.6
ENE	.4	2.7	1.1	1.1	.1							4.7	7.8
E	1.2	1.5	1.2	.8	.3							4.9	7.3
ESE	.2	.6	.4	.1								1.4	6.4
SE	.3	.5	.4	.1	.1							1.5	6.8
SSE	.3	.5	.7									1.1	4.8
S	.4	1.7	.9									2.2	5.8
SSW	.3	1.5	1.7	.9	.1							3.8	7.7
SW	.8	1.6	2.7	4.7	1.7	.3						10.4	11.4
WSW	.3	2.2	3.7	6.3	2.8	.6						15.3	12.4
W	1.1	1.8	4.2	3.8	2.4	1.2		.1				14.5	12.2
WNW	.4	1.6	2.2	1.0		.1						5.3	7.7
NW	.9	1.2	1.4	1.7	.2							4.6	7.9
NNW	.6	1.6	1.6	2.2	.7							6.2	8.8
VARBL													
CALM												2.7	
	9.6	23.5	26.3	26.0	9.4	2.4		.1				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1500-1700
OURS (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	2.2	2.6	1.9	.2							8.1	7.9
NNE	1.1	1.7	3.1	2.8	.3							9.0	8.8
NE	1.7	2.0	2.5	1.3								6.8	7.2
ENE	.4	1.5	1.8	1.3	.3	.1						5.5	9.1
E	.5	2.0	1.9	.6	.3	.1						5.6	8.3
ESE	.4	.6	.4	.5	.6							3.0	9.9
SE	.3	.5	.1	.4	.1							1.5	7.6
SSE	.2	.4	.3	.4								1.4	7.5
S	.5	1.3	1.5	.6	.3							4.3	8.0
SSW	.5	.5	1.7	1.6		.1						4.5	9.4
SW	.4	1.4	1.4	3.2	.6	.1						7.6	10.7
WSW	.3	1.2	2.7	4.2	2.2	.3						10.2	12.6
W	.5	2.2	3.9	5.8	3.2	1.4						17.0	12.9
WNW	.5	.8	1.4	1.5	.5	.1						4.8	10.6
NW	.8	1.0	.9	1.7	.4							4.0	9.0
NNW	.3	.6	1.3	1.9	.1							4.3	10.0
VARBL													
CALM												2.4	
	9.1	20.4	27.2	29.2	9.4	2.3						100.0	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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
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	1.1	1.9	1.4	.2							5.5	8.5
NNE	.5	1.6	2.3	1.0								5.4	7.6
NE	1.2	2.5	2.2	1.6								7.4	7.2
ENE	.8	2.2	2.6	1.2								6.7	7.3
E	1.8	3.5	1.8	.9	.3							8.4	6.4
ESE	.5	.8	.4	.8	.7							2.7	8.5
SE	.2	.8	.6	.5								2.2	7.7
SSE	.4	.6	.4	.1								1.6	5.9
S	1.2	2.3	1.6	.8	.2							6.0	7.0
SSW	.9	2.4	1.2	.8								5.2	6.6
SW	.4	1.7	2.7	1.6	.1							6.6	8.4
WSW		1.4	1.5	2.8	1.1	.7						7.0	11.7
W	.2	1.1	3.9	5.3	1.6	.4						12.5	11.6
WNW	.3	.9	2.7	3.2	.5							7.0	10.8
NW	.5	1.8	1.8	1.4	.1							5.7	8.4
NNW		1.3	1.8	1.0	.2							4.3	8.8
VARIABLE													
CALM												6.0	
	10.0	25.8	28.7	24.2	4.6	.6						100.0	8.1

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)

72775E
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAY
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	1.6	1.1	.6	.2							4.5	7.1
NNE	.4	1.5	1.0	.6								3.5	7.2
NE	.5	1.4	.6	.6								3.2	6.8
ENE	1.0	1.8	1.3									4.1	5.3
E	.9	1.2	.3	.1								2.5	4.7
ESE	.6	.9	1.7	.3								2.8	6.5
SE	1.0	1.7	1.0	.5								4.2	5.9
SSE	1.4	2.4	1.6	.1								5.5	5.3
S	1.9	5.6	2.0									9.6	5.3
SSW	.8	4.6	1.5	.1								7.0	5.7
SW	.5	4.5	4.6	1.5		.1						11.3	7.6
WSW	.6	2.6	3.4	2.9	.1							9.7	8.8
W	.6	2.6	5.7	2.5	.3							11.7	8.7
WNW	.1	1.2	1.8	.5	.3	.1						4.7	8.8
NW	.2	1.3	2.0	.3	.2							4.1	7.8
NNW	.2	1.7	.9	.5		.1						2.7	8.1
VARBL													
CALM												9.7	
	11.8	35.8	29.9	11.4	1.1	.3						100.0	6.4

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	1.0	1.5	1.6	1.3	.2	.0						5.6	8.0
NNE	.8	1.6	1.9	1.4	.3		.0					5.9	8.3
NE	.9	1.5	1.4	.9	.1							4.8	7.2
ENE	.6	1.2	.9	.6	.1	.0						3.4	7.2
E	1.0	1.4	.7	.3	.1	.0						3.6	6.2
ESE	.6	.6	.4	.2	.1							2.0	6.8
SE	.4	.8	.3	.2	.0							1.8	6.0
SSE	.7	.9	.4	.1								2.2	4.9
S	1.7	2.6	1.2	.3	.1							5.7	5.4
SSW	1.1	2.8	1.5	.7	.0	.0						6.1	6.3
SW	1.1	3.3	4.0	2.8	.8	.1						12.2	8.8
WSW	.7	3.1	3.8	4.2	1.3	.3						13.4	10.2
W	1.1	2.8	4.0	3.0	1.2	.4	.0	.0				12.5	9.8
WNW	.6	1.4	1.4	1.0	.2	.0						4.7	8.3
NW	.7	1.2	1.2	.8	.2	.0						4.1	8.0
NNW	.4	1.1	1.3	1.1	.2	.0						4.1	8.8
VARBL													
CALM												8.0	
	13.3	27.8	26.0	18.9	4.8	1.1	.0	.0				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 727755 STATION NAME MALMSTROM AFB MT YEARS 74-83 MONTH JUN
 CLASS ALL WEATHER HOURS (L.S.T.) 0000-0200
 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	.9	.2	.6								2.7	6.7
NNE	.7	.9	.9	.2								2.7	6.2
NE	.4	.6	.7	.3								2.7	6.7
ENE	.8	.4	.3									1.6	4.0
E	.4	.9	.1									1.3	4.0
ESE	.4	.6	.1									1.1	4.3
SE	1.0	.9	.6	.6								3.0	6.3
SSE	1.2	2.7	.2	.1								3.6	4.2
S	4.7	5.4	1.2	.1								11.1	4.5
SSW	3.1	5.6	2.8	.1								11.6	4.9
SW	2.7	7.7	6.6	1.6								18.5	6.4
WSW	1.7	3.4	4.8	2.3	.1							12.3	7.6
W	1.8	3.2	2.6	.7	.2	.1						8.6	6.6
WNW	.6	.9	.8	.2								2.4	6.5
NW	.2	1.7	.3	.4								2.0	6.6
NNW	.4	.6	.3	.4	.1							1.9	7.8
VARBL													
CALM												14.3	
	19.8	35.2	22.5	7.7	.4	.1						100.0	5.1

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)

72755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
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	.8	1.0	.7									2.4	5.1
NNE	.6	.9	.2	.1								1.8	5.3
NE	.3	.8	.8	.2								2.1	6.8
ENE	.6	.2	.1									.9	3.0
E	.4	.3	.2									1.0	4.6
ESE	.6		.1									.7	3.3
SE	.7	.2										.9	2.4
SSE	.7	.7	.2									1.6	4.2
S	3.4	3.9	.7	.1								8.1	4.0
SSW	3.2	8.6	1.3	.2								13.3	4.6
SW	3.6	7.2	6.0	2.3	.1							19.2	6.5
WSW	2.2	6.4	5.0	2.7	.1							14.9	7.2
W	1.6	2.6	2.0	.8								6.7	6.1
WNW	.4	1.8	.4	.2	.1							3.0	6.1
NW	1.1	1.2	.4	.4								3.2	5.7
NNW	.4	.9	.2	.4	.1							2.1	7.6
VARBL													
CALM												16.3	
	20.6	36.7	18.4	7.6	.4							100.0	4.9

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)

STATION 727755 STATION NAME MALMSTROM AFB MT YEARS 74-83 MONTH JUN
 CLASS ALL WEATHER? MONTHS (L.S.T.) 0600-0800
 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	1.2	.4	.3								3.7	4.8
NNE	.9	1.6	.7	.4								3.6	5.6
NE	.6	.1	.4	.8								1.4	7.1
ENE	.9	.1	.3									1.3	4.2
E	.9	.3	.2									1.4	3.7
ESE	.1	.2										.3	3.7
SE	.9	.4										1.3	3.1
SSE	.7	.1	.4									1.2	4.5
S	2.1	1.2	.9									4.2	4.0
SSW	1.7	2.6	1.4	.4	.1							5.7	5.4
SW	3.0	5.0	4.6	4.4	.9	.1						18.3	8.2
WSW	2.7	5.4	4.8	6.4	1.3							20.7	8.9
W	2.9	3.4	3.6	2.2	.4	.1						12.7	7.4
WNW	1.0	1.7	.4	.2								3.3	5.1
NW	.9	.6	1.7	.2	.1							3.4	6.8
NNW	.9	1.0	.3	.3	.1							2.7	6.0
VARBL													
CALM												14.7	
	21.7	25.0	27.0	15.4	3.0	.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/HAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 JUN
STATION STATION NAME YEARS MONTH
 ALL WEATHERED 000-1100
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	2.0	1.8	1.1	.2	.1							5.2	5.4
NNE	1.6	1.9	1.1	.2								4.8	5.7
NE	1.8	1.8	1.2	.6								5.3	5.6
ENE	.9	2.3	1.7	.3								4.6	5.4
E	.6	1.4	.4									2.9	4.9
ESE	.7	.4	.7	.1								1.4	4.8
SE	.4	.3	.2									1.7	4.8
SSE	.3	.2	.1									.7	4.3
S	.6	.6	.2	.3								1.7	5.7
SSW	1.0	.9	1.1	.7								3.7	6.8
SW	1.4	2.4	1.9	4.7	.7	.3						11.4	9.9
WSW	1.2	3.2	4.2	7.4	2.4	1.7						19.6	11.6
W	1.9	5.4	4.4	4.9	1.3	.7						18.7	9.5
WNW	1.2	1.8	1.6	1.7	.2							5.8	7.3
NW	.8	1.0	.9	.4	.2							3.3	7.2
NNW	.8	1.3	.8	1.7	.1							4.0	7.8
VARBL													
CALM												6.4	
	17.1	26.9	27.6	21.9	5.1	2.7						100.0	7.8

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)

77755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1900-1900
NOV (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	.8	1.1	2.0	.7	.4	.1						5.1	6.5
NNE	1.1	1.7	1.4	.1	.2							3.9	6.5
NE	1.3	2.2	2.5	.8	.2							7.1	7.7
ENE	.7	2.1	.7	.4	.1							4.7	5.9
E	.6	2.2	1.8	.2								4.8	6.7
ESE	.3	.7	.1	.2	.1							1.7	8.0
SE	.7	.8	.2		.1							1.8	5.3
SSE	.6	.8	.1									1.4	4.0
S	.8	.6	.4	.4								2.2	6.7
SSW	1.4	.8	1.3	.8								4.3	6.6
SW	1.1	1.4	3.5	3.3	.6							10.9	9.5
WSW	1.1	1.7	3.4	5.8	1.1	1.3	.2					16.6	13.0
W	1.0	2.7	3.9	5.4	1.7	1.7						16.1	11.5
WNW	1.0	1.9	3.1	1.6	.1	.1						7.8	8.5
NW	.8	1.4	1.1	.8	.3							4.4	7.7
NNW	.8	1.4	1.1	.7	.1	.1						4.1	7.8
VARBL													
CALM												5.3	
	13.9	22.2	26.9	21.7	7.1	2.7	.2					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

970

GLOPAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 JUN
STATION STATION NAME YEARS MONTH

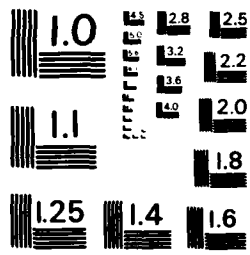
ALL WEATHER
CLASS

1990-1990
YEARS (L S Y)

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	1.2	1.7	.3							5.1	8.4
NNE	1.6	1.1	2.1	1.7	.1	.1						6.7	7.5
NE	.9	2.0	2.7	1.7	.7							6.7	7.8
ENE	.3	1.9	2.1	.4								4.7	7.1
E	1.7	2.6	2.7	.4	.2							6.2	6.7
ESE	.8	.9	1.3		.1							3.1	6.3
SE	.3	1.7	.8	.7		.1						2.8	7.2
SSE	.2	.4	.7									1.3	6.8
S	.7	1.3	.6	.4								3.2	6.2
SSW	1.2	.9	1.1	.2								3.4	5.6
SW	.8	1.2	2.3	2.3	.3	.7	.1					7.3	10.0
WSW	.6	1.4	3.7	6.0	2.0	.3	.1					13.8	12.2
W	.9	1.9	5.2	6.3	2.3	1.7	.3					18.7	12.3
WNW	.3	1.3	1.7	2.2	.3							6.3	9.3
NW	.6	.9	1.8	1.2	.3	.1						4.9	9.5
NNW	.8	.9	1.1	1.2	.3							4.3	8.6
VARBL													
CALM												3.7	
	11.9	21.8	29.2	29.7	6.7	1.9	.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 990



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

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 ATP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 STATION MÅLMSTROM AFB MT STATION NAME 74-83 YEARS JUN MONTH
 ALL WEATHER CLASS 1900-2000 MONTH (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	≥36	%	MEAN WIND SPEED
N	.4	.9	1.4	1.1	.1							3.9	8.9
NNE	1.0	1.9	2.4	1.4	.2							7.7	7.8
NE	.6	1.3	2.4	.7								5.3	7.3
ENE	.8	2.9	2.7	.8								7.1	6.7
E	1.8	2.6	1.3	.4								6.1	5.4
ESE	1.7	1.9	.7	.4	.1							4.1	6.0
SE	.6	.8	1.4	.1								2.4	6.0
SSE	.4	.8	1.0	.2								2.4	6.3
S	1.8	2.3	.6	.2								5.2	5.0
SSW	.7	1.4	.8		.1							3.0	5.7
SW	.9	2.6	2.6	1.3								7.3	7.5
WSW	.2	.4	2.3	2.3	.7		.1					6.4	11.0
W	.7	3.0	6.2	4.8	1.3	.4	.1					16.6	10.3
WNW	.6	1.2	2.7	1.4	.3							6.2	9.2
NW	.7	2.2	1.4	1.9	.2							6.4	8.6
NNW	.2	.8	1.1	.4	.2	.1						2.9	9.1
VARBL													
CALM												7.4	
	12.2	27.2	31.3	17.7	3.3	.6	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

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

SURFACE WINDS

727755 STATION MALMSTROM AFB MT 74-83 YEARS JUN 1966
 ALL WEATHERED CLASS 2100-2300 HOURS (L.S.T.)
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	1.7	.6	.1							4.3	7.4
NNE	.9	1.7	1.7	.2								4.4	6.2
NE	1.1	1.3	1.1	.3	.1							4.7	6.5
ENE	1.7	.7	.4									2.8	4.0
E	1.2	.8	.2	.1								2.3	3.8
ESE	.6	1.1	.2	.2								2.1	5.3
SE	1.8	.7	.8	.2								3.4	4.7
SSE	.9	2.7	1.2	.3								5.1	5.5
S	2.1	5.7	1.1	.4								9.3	4.9
SSW	1.7	5.1	1.6									8.3	5.0
SW	1.2	5.4	4.4	.9								12.0	6.5
WSW	.7	3.7	3.7	2.8	.1							10.2	8.1
W	.6	2.9	3.7	1.6	.6							9.2	8.4
WNW	.4	1.3	1.6	.7		.1						4.1	8.0
NW	.8	.9	.9	.6								3.1	6.4
NNW		.1	.9	.8	.1							1.9	11.2
VARBL													
CALM												13.2	
	16.2	35.3	24.4	9.7	1.0	.1						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOPAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 JUN

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	.9	1.2	1.1	.6	.1	.0						4.7	7.1
NNE	1.3	1.4	1.3	.5	.1	.0						4.3	6.5
NE	.9	1.3	1.5	.6	.1							4.3	6.9
ENE	.8	1.3	1.0	.3	.0							3.4	5.7
E	.9	1.4	.8	.2	.0							3.2	5.4
ESE	.6	.7	.3	.1	.0							1.7	5.7
SE	.8	.6	.4	.1	.0	.0						2.0	5.3
SSE	.6	1.7	.5	.1								2.2	5.1
S	1.9	2.7	.8	.3								5.6	4.7
SSW	1.4	3.2	1.4	.3	.0							6.7	5.3
SW	1.8	4.1	4.0	2.6	.3	.1	.0					13.0	7.8
WSW	1.3	3.3	3.8	4.5	1.2	.3	.1					14.5	10.0
W	1.4	3.1	3.9	3.4	1.0	.4	.1					13.3	9.6
WNW	.8	1.5	1.5	.9	.1	.0						4.9	7.9
NW	.7	1.2	1.1	.8	.2	.0						3.9	7.6
NNW	.5	.9	.7	.7	.2	.0						3.7	8.2
VARBL													
CALM												10.2	
	16.7	28.7	24.2	15.8	3.4	.9	.1					100.0	6.8

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JULY
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	1.1	1.3	.2		.2							2.8	4.9
NNE	.6	1.3	.9	.2	.1							3.1	6.2
NE	1.2	1.3	.1	.1								2.7	4.7
ENE	1.7	.2	.2	.1								1.5	3.9
E	1.3	.9	.1	.1								2.4	3.5
ESE	.6	.6	.2									1.5	4.1
SE	1.1	1.7	.3									2.4	4.0
SSE	1.7	3.7	.4	.1								4.5	4.7
S	3.9	7.5	2.7	.1								13.5	4.6
SSW	2.8	8.5	1.4	.7								12.9	4.8
SW	2.7	6.3	5.2	1.7								14.5	6.2
WSW	1.7	4.1	2.5	1.1	.1							9.5	6.5
W	.8	2.3	1.7	.4	.1							4.5	6.4
WNW	1.7	.3	.5	.1		.1						2.0	6.0
NW	.5	.5	.4	.2								1.7	5.8
NNW	.6	.9	.2	.1								1.8	4.8
VARBL													
CALM												18.6	
	21.2	40.0	15.7	3.9	.5	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 JUL
STATION STATION NAME YEARS MONTH

ALL WEATHER 0300-0500
CLASS HOUR (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	.5									2.8	4.7
NNE	.4	.5	.4	.3								1.7	6.4
NE	.2		.1									.3	4.7
ENE	.2	.2	.1									.5	4.6
E	.6	.1										.8	2.6
ESE	.8	.6										1.4	3.5
SE	.5	.9	.1									1.5	3.7
SSE	.9	.9										1.7	3.7
S	4.7	4.8	1.4									10.5	4.0
SSW	4.1	7.1	1.0	.3								13.3	4.8
SW	4.4	10.4	4.9	1.4								21.2	5.6
WSW	2.8	6.1	3.1	1.0								13.0	5.5
W	1.6	4.6	1.5	.3								8.1	5.3
WNW	.1	.8	.5	.2								1.6	6.7
NW	.2	.2										.4	3.8
NNW	.6	.9		.2								1.7	4.9
VARBL													
CALM												19.4	
	23.1	39.5	14.3	3.8								170.0	4.1

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
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	1.5	.4	.3									2.3	3.3
NNE	.6	.6	.5	.1								1.9	5.6
NE	.3	.3	1.2	.1								1.9	6.8
ENE	.5	.6	.1									1.3	3.8
E	.9	.3										1.2	3.1
ESE	.1	.2										.3	4.3
SE	.6	.1		.1								.9	3.9
SSE	.6	.9	.1									1.6	3.7
S	2.7	2.7	.4	.1								4.6	4.1
SSW	2.4	2.9	.8	1.2								7.2	5.5
SW	4.2	5.1	5.6	2.7	.1							17.6	6.8
WSW	2.5	5.4	4.3	3.9	1.2							17.2	8.3
W	4.7	4.0	3.7	.5	.1							11.6	5.5
WNW	1.9	1.4	1.1			.1						4.5	4.7
NW	1.3	1.1	.8	.2								3.3	5.1
NNW	.8	1.7	.6									2.4	4.6
VARBL												70.1	
CALM													
	24.3	26.3	18.8	8.9	1.4	.1						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

JUL
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	2.2	2.7	.4	.2								4.8	4.2
NNE	2.2	1.6	.9	.1								4.7	4.3
NE	1.2	2.2	.9	.1								4.3	5.1
ENE	1.2	1.4	.4	.1								3.1	4.7
E	1.1	1.6	.5									3.2	4.2
ESE	.2	.9	.2									1.3	4.8
SE	.4	.5										1.0	3.4
SSE	.5	.3										.9	3.3
S	1.0	.4	.3	.1								1.8	4.6
SSW	.4	.5	.9	.8								2.9	7.5
SW	1.1	2.3	2.5	4.0	.9	.3						11.0	10.0
WSW	1.7	1.5	5.2	5.6	2.2	.1						16.2	10.9
W	2.9	7.1	8.3	4.0	.8							22.9	7.8
WNW	1.6	2.6	1.7	.2								6.1	5.4
NW	2.3	2.2	.9	.5								5.8	5.1
NNW	1.3	.9	.5									2.7	4.0
VARBL													
CALM												7.2	
	21.5	27.8	23.5	15.7	7.8	.4						100.0	6.7

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)

727755 MALMSTROM AFB MT 74-83 JUL
STATION STATION NAME YEAR MONTH

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

CORDITION

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	2.2	2.0	.4	.1							6.5	6.0
NNE	1.1	2.9	1.7	.1								5.8	5.7
NE	.9	3.7	2.4	.3								7.2	6.1
ENE	1.2	1.2	1.5	.2	.1							4.2	6.4
E	1.6	2.4	.8	.2								4.9	4.8
ESE	.6	.9	.1	.2								1.8	5.1
SE	.3	.4	.3	.3								1.4	6.9
SSE	.1	.2	.1									.4	5.7
S	1.7	1.4	.4	.1								2.9	4.6
SSW	.6	.8	1.7	.9								3.2	7.6
SW	1.1	1.6	3.3	2.3	.3	.5	.1					9.2	9.8
WSW	.8	1.1	4.3	4.4	2.8	.1						13.4	12.0
W	2.3	5.2	5.8	6.7	1.6	.2	.1					21.8	9.6
WNW	1.3	1.4	1.5	1.7	.1							5.7	7.0
NW	1.3	2.2	.6	.5								4.6	5.8
NNW	.5	1.7	.8	.5		.1						3.7	6.7
VARBL													
CALM												3.1	
	16.3	29.5	26.7	18.2	5.1	1.0	.2					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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.6	2.0	1.4	.8	.3							5.2	7.4
NNE	1.6	2.5	2.9	1.0		.1						8.7	6.8
NE	1.3	3.5	2.8	1.0	.1							8.7	6.8
ENE	.8	1.8	1.4	1.1	.1							5.2	7.4
E	1.3	2.2	1.9									5.4	5.7
ESE	.6	.9	.4	.3								2.3	5.9
SE	.1	.8	.8	.3								1.9	7.3
SSE	.4	.6		.2	.1							1.4	6.0
S	1.1	1.6	.2	1.2	.1							4.2	7.1
SSW	1.7	1.2	.5				.1					2.8	5.5
SW	1.0	2.2	2.4	1.9	.3	.1						7.8	8.9
WSW	.8	1.8	3.8	4.4	1.1	.4						12.3	11.1
W	1.0	2.3	3.8	6.5	2.4	.4						16.2	11.7
WNW	1.2	1.3	2.5	2.2	.8	.1						8.7	9.5
NW	.5	1.7	1.4	1.2								4.1	8.2
NNW	.5	1.4	.8	.6		.1						3.4	7.2
VARBL													
CALM												3.2	
	13.8	27.7	26.8	22.6	5.3	1.3	.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)

727755 MALMSTROM AFB MT 74-83 IIII
STATION STATION NAME YEARS MONTHS

ALL WEATHER 1800-2000
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	1.4	2.6	2.2	1.1	.1							7.3	7.0
NNE	1.4	2.8	2.3	1.5	.1							8.1	7.1
NE	1.1	2.9	1.6	1.2								6.8	6.7
ENE	1.8	2.9	2.9	1.1								9.7	6.4
E	1.6	2.2	2.8	.5								7.1	6.3
ESE	1.1	.9	1.1	.1								3.1	5.2
SE	1.4	1.5	.6	.1	.1							3.8	5.0
SSE	1.1	.9	1.1	.7								3.2	5.7
S	.5	1.7	1.1	.1								3.4	5.8
SSW	1.4	1.1	.8	.1	.1							3.4	5.4
SW	1.2	1.6	2.4	1.1				.1				6.3	7.8
WSW	.5	.5	1.4	2.2	.5	.2	.1					5.5	11.7
W	.5	2.2	3.7	4.4	.6							11.4	10.1
WNW	.4	1.0	2.7	2.4	.4	.1						7.7	10.4
NW	.5	1.3	1.6	1.8	.1							5.4	8.8
NNW	.8	.5	1.4	.4	.1	.1						3.3	7.9
VARBL													
CALM												6.1	
	16.8	26.5	29.5	18.3	2.3	.4	.1	.1				100.0	7.2

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)

77755 MALMSTROM AFB MT 74-83 JUL
STATION STATION NAME YEARS

ALL WEATHER 2100-2300
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	1.7	2.3	.8	.4								5.2	5.5
NNE	1.2	2.3	1.5	.4	.2							5.6	6.2
NE	1.7	1.9	1.3	.6								4.3	6.2
ENE	2.2	1.4	.3									3.9	3.7
E	2.3	.9	.5	.1								3.8	4.0
ESE	.5	1.2	.4									2.2	4.7
SE	1.5	2.4	.8	.2								4.9	4.8
SSE	1.3	3.7	.6	.1								5.7	4.8
S	3.1	6.7	2.9									12.2	4.8
SSW	1.6	4.2	1.2	.3								7.3	5.3
SW	1.6	4.3	4.7	1.1	.2	.1						11.3	6.9
WSW	.8	1.7	2.3	1.2								5.9	7.8
W	.6	2.3	1.7	1.5	.2							6.3	8.0
WNW	.3	1.2	.3	.1								1.9	5.8
NW	1.2	1.1	.7									2.5	4.7
NNW	.3	1.3	.9	.3								2.8	6.3
VARBL													
CALM												13.9	
	21.2	38.6	18.9	6.7	.6	.1						170.0	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)

STATION 727755 MALMSTROM AFB MT YEARS 74-81 MONTH JULI
 CLASS ALL WEATHERED
 HOURS (LST) ALL
 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	1.9	1.7	.4	.1							4.2	5.7
NNE	1.1	1.9	1.4	.5	.1	.7						4.9	6.2
NE	.9	2.7	1.3	.4	.7							4.6	6.2
ENE	1.1	1.2	.9	.3	.7							3.5	5.7
E	1.3	1.3	.8	.1								3.5	4.9
ESE	.6	.8	.3	.1								1.7	4.9
SE	.8	.9	.4	.1	.7							2.2	5.7
SSE	.7	1.3	.3	.1	.7							2.4	4.8
S	2.2	3.3	1.7	.7	.7							6.7	4.8
SSW	1.8	3.3	1.7	.7	.7		.7					6.6	5.4
SW	2.1	4.2	3.8	1.9	.7	.1	.7	.7				12.4	7.3
WSW	1.4	2.8	3.3	3.7	1.7	.1	.7					11.6	9.2
W	1.7	3.7	3.6	3.0	.7	.1	.7					12.9	8.5
WNW	1.7	1.3	1.4	.8	.2	.1						4.5	7.5
NW	1.7	1.2	.7	.6	.7							3.5	6.4
NNW	.7	1.1	.6	.3	.7	.7						2.7	6.1
VARBL													
CALM												11.5	
	19.8	31.9	21.8	12.2	2.4	.4	.1	.0				100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 7487

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.5	.8	.9	.3								2.5	6.7
NNE	1.1	1.6	1.1	.4	.1							4.3	6.2
NE	1.3	.8	.5	.6								3.2	6.0
ENE	.4	.3	.1									.9	3.4
E	.6	.6	.5	.1								1.9	5.3
ESE	.9	.3	.3									1.4	3.9
SE	1.1	.9	.5	.1								2.6	4.8
SSE	1.2	2.7	.4									4.3	4.5
S	4.7	4.8	1.6	.2								10.6	4.5
SSW	2.6	6.5	2.5	.1								11.6	5.0
SW	2.5	7.7	3.3	1.5		.1						14.6	6.2
WSW	1.4	5.8	2.7	.6	.1	.1						10.9	6.0
W	1.9	2.2	1.7	.6								6.5	6.0
WNW	.8	1.7	.4	.1								2.3	4.9
NW	1.7	.8	.4	.1								2.3	4.5
NNW	.4	.8	.4	.3								1.9	6.4
VARBL													
CALM												18.4	
	21.5	36.9	17.5	5.3	.2	.2						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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 - 53	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	.6	.6								3.1	6.4
NNE	.9	.9	.5	.3								2.6	5.5
NE	.5	1.1	.3	.1								2.0	5.0
ENE	.8	.5	.1									1.4	3.6
E	.3	.2										.5	3.4
ESE	.8	.5										1.3	3.2
SE	1.1	.5	.3	.1								2.0	4.3
SSE	2.4	.9		.1								3.3	3.0
S	4.3	3.4	.6									8.4	3.5
SSW	3.5	6.0	.8	.2								11.4	4.4
SW	4.4	8.5	5.4	1.6	.1							20.0	6.0
WSW	2.9	5.4	2.9	.3								11.5	5.4
W	2.2	3.9	1.4	.3								7.7	4.9
WNW	.5	1.1	.3	.1								2.0	5.4
NW	.5	1.6	.5	.3								3.0	5.9
NNW	.8	.5	.4									1.7	4.6
VARBL													
CALM												17.8	
	26.5	37.1	14.3	4.2	.1							100.0	4.1

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)

727755 MALMSTROM AFB MT 74-P3 AUG
STATION STATION NAME YEARS MONTH

ALL WEATHER 0600-0800
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	2.3	.8	.3	.2	.1							3.7	4.1
NNE	1.0	1.5	.5	.1								3.1	5.0
NE	1.1	.8	.3	.1								2.3	4.2
ENE	.3	.3	.2									.9	4.6
E	1.2	.4										1.6	2.7
ESE	.8	.3		.1								1.2	3.4
SE	.4	.6	.1	.2								1.4	5.2
SSE	.5	.4	.1	.1								1.2	4.7
S	3.7	2.5	.5	.1								6.1	3.8
SSW	3.7	3.2	1.7	.4		.1						9.1	5.1
SW	4.5	5.6	3.5	2.0	.4							16.1	6.4
WSW	3.5	5.4	3.7	1.4	.8	.7						14.3	6.7
W	4.1	5.2	1.6	1.1								11.9	5.0
WNW	1.5	1.4	.4	.1								3.4	4.3
NW	1.3	1.5		.3	.1							3.2	4.9
NNW	1.0	.4	1.0	.1								2.5	5.4
VARBL													
CALM												18.0	
	30.1	30.3	13.4	6.5	1.4	.3						100.0	4.4

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	2.9	2.7	1.0	.3	.1							6.3	4.7
NNE	2.0	2.2	1.0	.4								5.6	5.3
NE	1.4	1.0	.8	.3	.1							3.5	5.6
ENE	1.7	1.2	.2									2.4	3.9
E	1.4	1.4	.2	.1								3.1	4.1
ESE	.5	.5		.2								1.3	4.8
SE	.6	.6	.2									1.5	4.0
SSE	.4		.2									.6	4.0
S	.9	.6	.1	.2	.1							1.9	5.7
SSW	.8	.9	.3	.5								2.5	6.6
SW	1.2	1.4	2.9	2.8	1.0	.2						9.5	10.0
WSW	2.9	3.4	4.3	3.9	2.6	.4	.1					17.8	10.2
W	4.5	7.0	4.4	3.1	.5	.2						19.8	6.8
WNW	1.9	2.5	1.4	.4	.2							6.5	6.0
NW	2.0	1.1	1.4	.3	.1							4.9	5.6
NNW	1.4	1.2	1.4									4.0	5.3
VARBL													
CALM												8.7	
	25.8	27.0	19.8	12.7	4.7	1.2	.1					100.0	6.4

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-93
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1700-1900
HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	3.7	2.7	.5								9.7	5.5
NNE	1.7	4.1	2.7	.9								9.4	6.4
NE	1.2	3.5	2.2	.1	.1							7.1	5.9
ENE	.9	1.4	.5	.2								3.7	5.5
E	.8	.8	.6									2.2	4.7
ESE	.8	1.7	.2									1.9	3.9
SE	.4	.5	.2	.2								1.4	5.7
SSE	.2	.2										.4	3.5
S	.5	1.7	.4	.2								2.2	5.6
SSW	.3	1.7	.2	.3								1.8	5.9
SW	1.4	2.7	1.5	3.1	1.3	.2						9.6	10.2
WSW	1.4	2.7	3.7	4.1	2.7	.6						13.9	10.8
W	2.4	4.6	4.7	4.3	1.1	.4	.1					17.6	9.0
WNW	1.7	2.7	1.3	1.4	.1	.2						7.4	7.1
NW	1.3	1.9	1.7	.4								5.4	6.7
NNW	1.2	1.1	1.3	.3								3.9	6.0
VARBL													
CALM												4.2	
	18.6	31.5	23.3	16.1	4.6	1.5	.1					170.0	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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	1.2	1.9	2.3	1.2		.1						6.7	7.2
NNE	1.5	3.2	3.4	1.0	.6							9.8	7.5
NE	1.3	2.6	4.7	1.4								9.2	7.3
ENE	.3	.9	1.9	1.0								4.1	8.3
E	1.5	2.3	1.4	.1								5.3	5.1
ESE	.8	.2	.6	.1	.2							1.9	6.9
SE	.4		.3		.1							.9	6.6
SSE		.1	.3		.1							.5	9.6
S	1.1	.3	.6	.3								2.4	5.9
SSW	.6	1.1	1.1	.3	.2							3.3	7.4
SW	1.1	1.5	2.4	2.2	.5	.2	.1					8.0	9.7
WSW	1.2	1.3	2.4	3.3	1.2	.2						9.6	10.4
W	1.2	2.8	5.2	7.1	1.4	.6						18.3	10.9
WNW	.9	2.0	1.5	1.0	.3							5.7	7.6
NW	.8	1.7	1.4	.9	.2							4.9	7.5
NNW	1.2	1.5	1.1	.3	.1							4.2	6.1
VARBL													
CALM												5.3	
	14.9	23.4	29.9	20.1	5.1	1.2	.1					100.0	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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

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

ALL WEATHER
CLASS

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	1.5	2.0	1.1	.3							6.2	7.8
NNE	.3	2.0	3.0	1.9	.1	.1						8.4	8.1
NE	.9	2.7	3.7	1.8	.1							9.1	7.9
ENE	1.7	3.4	2.4	1.1								8.3	6.3
E	2.8	3.1	1.5	.2								7.6	4.6
ESE	.4	.4	.8	.8	.1							2.8	7.6
SE	.9	1.2	1.1	.6			.1					3.9	7.2
SSE	.3	.3	.5									1.2	6.0
S	1.2	1.2	.6	.4								3.7	5.8
SSW	1.1	1.6	.6	.6	.1							4.1	6.4
SW	.8	2.3	2.9	1.7	.2	.1						8.1	9.0
WSW	.6	1.7	1.5	1.8	.3				.1			6.0	8.9
W	1.2	2.9	3.0	3.2	.4	.2						11.7	9.2
WNW	.3	1.6	1.8	1.6								4.7	7.7
NW	.6	1.4	1.7	.5								3.5	6.7
NNW	.5	1.6	.9	.5								2.9	6.9
VARBL													
CALM												7.7	
	15.3	29.1	28.1	17.4	1.7	.4	.1		.1			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)

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHERED
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	1.7	2.7	.9	.3	.3							4.4	6.8
NNE	.8	2.5	1.8	.9	.4							6.3	7.7
NE	1.2	2.7	1.4	.2	.1							5.6	5.5
ENE	1.9	1.3	.3									3.5	3.7
E	2.3	1.1	.5									3.9	3.6
ESE	1.1	1.1	.4									2.6	4.3
SE	2.7	1.7	.9									5.3	4.1
SSE	1.4	2.4	.9	.4								5.1	5.3
S	2.8	5.9	1.7	.2	.1							10.8	4.9
SSW	2.3	4.3	1.7	.1								8.4	5.2
SW	1.6	3.9	2.7	.9	.2							7.2	6.6
WSW	.8	3.2	2.7	.9	.2							7.1	7.2
W	1.7	3.1	1.5	.5								6.1	6.2
WNW	.1	.6	1.5	.2								2.5	7.6
NW	.8	1.2	.3	.1	.1							2.5	5.5
NNW	.8	.6	.4		.1							1.9	5.6
VARBL													
CALM												14.8	
	22.3	37.6	18.9	4.7	1.6							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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

AUG
MONTH

ALL WEATHERED
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	1.5	1.7	1.3	.6	.1	.0						5.2	6.2
NNE	1.2	2.4	1.8	.7	.2	.0						6.2	6.8
NE	1.1	1.9	1.6	.6	.1							5.3	6.4
ENE	.9	1.2	.7	.3								3.1	5.6
E	1.4	1.2	.6	.1								3.3	4.4
ESE	.8	.6	.3	.1	.0							1.8	5.1
SE	1.0	.8	.5	.2	.0		.0					2.4	5.1
SSE	.8	.9	.3	.1	.0							2.1	4.7
S	2.2	2.5	.8	.7	.0							5.8	4.6
SSW	1.9	3.7	1.1	.3	.0	.7						6.5	5.3
SW	2.2	4.7	3.1	2.0	.5	.1	.0		.0			11.9	7.5
WSW	1.8	3.6	2.7	2.0	.9	.2	.0					11.4	8.3
W	2.3	3.9	3.1	2.5	.4	.2	.0					12.5	7.8
WNW	1.7	1.6	1.1	.5	.1	.0						4.3	6.5
NW	1.0	1.4	.8	.4	.1							3.7	6.0
NNW	.9	.9	.9	.2	.0							2.9	5.8
VARBL													
CALM												11.9	
	21.9	31.6	27.7	10.9	2.4	.6	.1		.0			170.0	5.8

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/HAC

SURFACE WINDS

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

727755 STATION MALMSTROM AFB MT STATION NAME 79-83 YEARS SEP MONTHS
ALL WEATHER CLASS 3000-0200 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	.4	1.7	1.2	.1	.1							3.6	6.6
NNE	.4	1.7	1.1	.4								3.7	6.5
NE	.4	.7	.3									1.4	5.1
ENE	.7	.4	.1	.1								1.3	3.9
E	.8	.2	.1									1.1	3.3
ESE	.3	.4	.1	.1								1.0	5.1
SE	.8	.8	.2									1.9	3.9
SSE	1.3	1.7	.3	.3								3.7	4.8
S	2.7	5.3	1.8	.2								10.0	4.9
SSW	3.9	7.9	2.1	.2								14.0	4.7
SW	2.8	8.9	7.9	1.6	.1							21.2	6.4
WSW	1.3	5.6	4.4	.9								12.5	6.6
W	1.2	3.1	2.1	.3	.1							6.9	6.1
WNW	.9	.3	.9									2.1	5.2
NW	.3	.7	.4	.1	.3							1.9	8.1
NNW	.3	.1		.7								1.1	8.9
VARBL													
CALM												12.7	
	18.6	39.4	23.6	5.1	.7							100.0	5.1

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)

727755

MALMSTROM AFB MT

74-83

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0100-0500
 HOURS (L.G.T.)

CLASS

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	1.2	1.2	.7								3.7	7.3
NNE	.7	1.0	.7	.3								2.7	5.8
NE	.4	1.2	.1	.1								1.9	4.9
ENE	.4			.7								.7	5.7
E	.4	.2	.1									.8	3.9
ESE	.1	.2										.3	3.3
SE	.2	.1										.3	2.3
SSE	.7	.6	.2									1.4	3.6
S	3.7	3.1	.7									6.8	4.1
SSW	3.3	5.4	2.3	.3								11.4	5.1
SW	2.7	10.0	7.2	2.2								22.2	6.5
WSW	3.2	7.3	4.7	1.4	.1							16.9	6.2
W	2.2	3.7	1.3	.7								7.9	5.1
WNW	.7	1.2	.8	.2								2.9	5.6
NW	.8	.7	.8	.6	.1							2.9	7.1
NNW	.4	.6	.4	.6								2.0	7.7
VARBL													
CALM												15.2	
	27.7	36.6	20.6	7.4	.2							100.0	4.9

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0600-2000
GROUP (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	.6	.4	1.1	.3								2.4	6.7
NNE	1.2	1.3	.6	.2								3.3	5.1
NE	.4	.7	.3	.1								1.6	5.3
ENE	.2	.2		.2								.7	6.5
E	.7											.7	2.5
ESE	.7											.7	2.3
SE	.4	.3										.4	3.1
SSE	.6	.2	.1									.9	3.5
S	2.3	1.3	.1									3.8	3.1
SSW	2.7	3.7	1.6	.4								7.7	5.1
SW	3.4	7.6	8.1	3.4	.7	.3						23.6	7.6
WSW	2.7	5.6	4.2	1.8	.4	.2						14.9	7.2
W	3.1	5.7	2.7	.7								11.4	5.5
WNW	1.4	1.2	1.3	.1	.1							4.2	5.7
NW	.8	.8	.4	.2	.1							2.3	5.7
NNW	.4	.4	.8	.6	.1							2.3	8.6
VARB													
CALM												18.8	
	21.7	28.1	21.3	8.1	1.9	.6						100.0	5.1

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

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	1.6	1.3	.8	1.0	.1							4.3	6.5
NNE	2.7	1.6	.4	.2	.1							4.3	4.0
NE	1.6	.6	.6	.3								3.0	5.0
ENE	.7	.6										1.2	3.4
E	.8	.4										1.2	2.9
ESE	.3	.4	.1									.9	4.3
SE	.2	.3	.2									.8	5.1
SSE	.1	.6										.7	4.5
S	.6	.3										.9	3.3
SSW	1.1	1.6	.9	.7	.1							4.3	6.8
SW	1.2	2.3	4.2	7.1	2.2	.4	.1	.1				17.8	11.4
WSW	1.0	2.9	5.2	8.3	1.7	1.4						20.6	11.6
W	5.0	5.8	5.3	3.1		.1						19.3	6.7
WNW	2.3	1.7	.7	.6								5.2	5.0
NW	1.3	1.7	.9	.6								4.4	5.8
NNW	.8	.6	1.1	.7	.2							3.3	8.0
VARBL													
CALM												7.2	
	20.6	22.6	20.4	22.6	4.8	2.2	.1	.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

707755 STATION MALMSTROM AFB MT 70-93 YEARS SEP MONTHS
 ALL WEATHER CLASS 1200-1400 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	2.3	1.8	1.8	.6	.2	.1						6.3	6.7
NNE	1.6	2.4	1.2	.0								6.1	6.7
NE	1.7	2.2	1.3	.4								5.7	5.9
ENE	1.7	1.6	.3									2.0	4.2
E	1.7	.8	.1									2.6	3.6
ESE	.7	.3										.6	4.4
SE	.7	.2										.4	3.5
SSE	.7	.1										.7	2.3
S	.4	.4	.4	.4	.1							1.9	7.9
SSW	.4	.8	.8	1.4	.2	.1						3.8	9.6
SW	.9	1.8	3.3	5.2	1.7	1.1						17.3	11.7
WSW	.7	3.2	5.7	7.3	2.6	.8		.1				19.7	11.9
W	2.9	4.7	6.7	5.7	1.7	.7						19.8	8.8
WNW	1.2	1.7	1.9	1.0	.1							5.2	7.5
NW	.6	1.6	1.1	.9	.7	.1						4.4	6.7
NNW	1.1	1.6	.7	.8	.4							4.6	7.7
VARBL													
CALM												2.7	
	16.4	23.9	24.7	24.0	5.0	2.4		.1				177.0	8.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 SEP
STATION STATION NAME YEARS MONTH

ALL WEATHERED 1500-1700
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	%	M AN WIND SPEED
N	.9	.9	1.8	1.1								4.7	7.7
NNE	1.9	2.1	2.6	1.6	.2							8.3	7.2
NE	1.4	3.2	3.3	.8								8.8	6.7
ENE	1.3	2.2	1.6	.8								5.9	6.3
E	.4	1.1		.1								1.7	4.6
ESE	.3	.1	.1									.6	3.4
SE	.2	.1										.3	3.3
SSE	.1	.3	.1	.1								.7	6.8
S	.2	.6	.9	.3								2.7	7.7
SSW	.7	1.1	1.2	1.0	.1							4.1	8.1
SW	.9	1.2	3.8	4.9	.6	.3						11.7	10.2
WSW	.8	1.7	3.3	4.9	1.4	.7	.7					13.0	11.9
W	1.6	2.9	5.3	5.4	1.6	.9						17.7	10.6
WNW	1.3	1.6	1.1	1.9	.6							6.4	8.7
NW	.9	1.4	1.7	1.0	.1							5.1	7.5
NNW	.9	1.1	2.0	.6	.1	.1						4.8	7.7
VARBL													
CALM												4.3	
	13.9	21.7	28.8	24.4	4.7	2.7	.2					100.2	8.5

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1997-2000
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	.9	1.9	.8	.9								4.4	6.5
NNE	1.4	2.7	2.7	1.4	.3	.1						9.7	7.6
NE	2.4	4.7	1.4	1.3								9.2	6.0
ENE	2.6	2.1	1.3	.7								6.2	4.9
E	.9	.9										1.8	3.5
ESE	.6	.9	.1	.2								1.8	5.5
SE	.7	.8	.6									2.0	5.1
SSE	.4	.7	.3		.1							1.6	5.9
S	1.8	2.3	1.2			.1						5.4	5.2
SSW	.8	3.3	1.3	.2	.2							5.9	6.1
SW	1.2	3.9	4.2	1.7								10.3	6.8
WSW	.3	2.1	2.1	2.3	.4	.1						7.4	9.6
W	.7	3.1	4.9	2.6	.6							11.8	8.7
WNW	.7	.9	2.4	1.6	.2	.7						6.0	9.9
NW	.3	.4	1.4	.6								2.8	8.0
NNW	.7	.9	1.2	.9								3.7	7.8
VARBL													
CALM												11.0	
	16.3	30.9	26.1	13.2	1.9	.6						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

7a-P3
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	.8	.9	1.1	.1								2.9	6.0
NNE	1.7	1.8	.9	1.0		.1						4.8	7.1
NE	.0	1.4	1.1	.6								4.7	6.4
ENE	1.1	.2	.7									1.6	3.1
E	.9	.3	.3									1.6	4.1
ESE	.0	.6	.4									1.9	4.2
SE	1.7	1.2	.0	.1								3.2	5.2
SSE	1.4	1.9	1.7	.1								4.4	4.7
S	3.4	6.6	3.3									13.3	5.0
SSW	3.7	6.4	1.8									11.2	4.7
SW	1.1	5.7	5.1	.9	.1							12.4	6.6
WSW	.6	4.4	4.9	1.4	.1	.1	.1					11.7	7.8
W	.7	7.4	3.6	.6		.1						7.3	7.2
WNW	.2	1.2	.8	.1								2.3	6.2
NW	.9	1.1	.6	.9	.1							3.6	7.2
NNW	.1	.9	.6	.3	.1							2.7	7.7
VARBL													
CALM												11.8	
	18.7	37.1	26.6	5.7	.4	.3	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-93
YEARS

SFP
MONTHS

ALL WEATHER
CLASS

ALL
MOSES (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	1.2	.6	.1	.0						4.2	6.6
NNE	1.3	1.8	1.3	.8	.1	.0						5.2	6.5
NE	1.1	1.7	1.1	.5								4.4	6.7
ENE	1.7	.9	.4	.2								2.6	5.7
E	.8	.5	.1	.0								1.4	3.6
ESE	.4	.4	.1	.0								1.7	4.4
SE	.5	.5	.2	.0								1.2	4.5
SSE	.6	.7	.3	.1	.0							1.7	4.7
S	1.8	2.5	1.1	.1	.0	.0						5.5	4.9
SSW	2.0	3.7	1.5	.5	.1	.0						7.8	5.6
SW	1.8	5.2	5.5	3.2	.6	.3	.0	.0				16.6	8.2
WSW	1.3	4.1	4.3	3.6	.8	.4	.0	.0				14.6	9.3
W	2.2	3.7	4.0	2.3	.4	.2						12.8	7.7
WNW	1.1	1.1	1.2	.7	.1	.0						4.3	7.2
NW	.7	1.0	.9	.6	.1	.0						3.4	7.1
NNW	.6	.8	.8	.6	.1	.0						3.0	7.9
VARBL													
CALM												10.5	
	18.2	37.0	24.0	13.8	2.5	1.0	.1	.0				100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

7200

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 OCT

STATION STATION NAME YEARS MONTH

ALL WEATHER 0000-2200

CLASS HOUR (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	1.1	1.0	.3	1.0								3.3	6.7
NNE	1.0	1.0	.4	.5	.1	.1						3.1	6.9
NE	.3	.3	.2	.1								1.0	6.0
ENE	.3											.3	2.0
E	.3				.1							.4	6.3
ESE	.2	.1										.3	3.3
SE	.3	.1										.4	3.3
SSE	.9	.3										1.2	3.0
S	2.5	3.7	1.7									6.5	4.3
SSW	2.7	6.1	3.7	1.4								13.2	6.2
SW	2.7	8.1	9.6	5.3	.5	.2	.1					25.8	8.3
WSW	1.1	4.9	6.6	3.3	.3							16.2	8.0
W	2.5	1.9	2.5	1.3								9.2	6.4
WNW	.4	.3	.8	.2								1.7	6.6
NW	.4	.8	.8	.4								2.4	7.0
NNW	.3	.9		.2								1.4	5.5
VARBL													
CALM												14.5	
	15.7	28.8	25.7	13.8	1.1	.3	.1					100.0	6.0

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	1.3	.2	.6	.1							3.1	6.6
NNE	.9	.8	.6	.8								2.7	6.2
NE	.4	.2		.8								1.1	7.1
ENE	.2	.1										.3	4.0
E	.1											.1	2.0
ESE	.1											.1	2.0
SE	.3	.1										.4	3.3
SSE	.9	.2										1.1	2.8
S	1.9	2.6	.8	.2								5.5	4.6
SSW	2.4	4.3	2.8	1.3								10.8	6.2
SW	2.5	8.5	11.1	6.3	.8	.2						29.0	8.1
WSW	2.4	6.3	5.1	3.8	.6	.1						18.0	7.7
W	1.5	3.5	2.2	.1								7.3	5.4
WNW	.6	.8	.6	.1								2.2	5.7
NW	.8	1.7	.2	.3		.1						2.0	7.2
NNW	.1	.8	.1	.2								1.2	6.5
VARBL													
CALM												15.2	
	15.6	30.4	23.7	13.5	1.2	.4						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 OCT

STATION STATION NAME YEARS MONTH

ALL WEATHER 0600-2800

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	.6	.8	.3									1.7	4.6
NNE	.8	.6	.9	.4								2.7	6.4
NE	.9	.4	.3	.1								1.7	4.7
ENE	.2	.1	.2									.5	4.4
E	.6	.1										.8	2.0
ESE	.2	.2										.4	3.3
SE	.9	.1										1.7	2.8
SSE	1.1	.1										1.2	2.0
S	3.7	1.7	1.2	.2								5.2	4.8
SSW	1.7	3.9	3.7	2.0								10.6	7.0
SW	3.7	6.9	9.7	6.1	1.2	.1						26.3	8.5
WSW	1.6	6.1	4.3	3.4	1.7	.1						16.6	8.1
W	1.7	3.8	2.5	.9		.1						8.9	6.3
WNW	.4	.9	.4	.1	.1							1.9	6.6
NW	.1	1.2	.6	.2	.3							2.5	8.2
NNW	.3	.2	.6	.1								1.3	6.8
VARBL													
CALM												16.7	
	16.2	27.1	23.4	13.7	2.6	.3						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 ATR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCI
ROUTE

ALL WEATHER
CLASS

0000-1100
HOURS (L O 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	1.7	.5	.3								2.5	6.0
NNE	.9	.9	1.1	.6								3.4	6.8
NE	.8	.8	.6	.2								2.4	5.7
ENE	1.7	.5										1.5	3.3
E	.6	.3										.9	2.6
ESE	.2	.1										.3	3.0
SE	.6	.3										1.7	2.9
SSE	.5	.1										.6	3.0
S	.6	.8	.5	.1								3.0	5.1
SSW	.1	1.1	.8	2.7	.3	.1						5.3	10.9
SW	.9	2.2	4.9	1.2	4.8	1.7	.2					24.9	13.5
WSW	1.3	3.1	5.5	7.7	4.7	1.2	.1					22.9	12.1
W	1.5	4.5	4.6	2.3	1.1							14.7	8.2
WNW	.8	1.0	.4	.2	.1							2.5	5.7
NW	.9	.9	.2	.4	.1	.1						2.6	6.7
NNW	.3	.9	1.7	1.7	.1	.1	.1					3.4	9.8
VARBL													
CALM												9.8	
	11.8	18.2	20.2	25.8	10.5	3.2	.4					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

932

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1770-1900
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	.9	1.1	.6	.1							3.7	7.0
NNE	1.3	1.4	1.3	.8								4.7	6.6
NE	1.7	1.4	1.6	.8								4.7	6.8
ENE	.1	1.6	.8									2.5	5.8
E	1.1	1.4	.3									2.8	4.2
ESE	.2	.2										.4	3.8
SE	.2	.2										.4	4.0
SSE	.1	.2										.3	4.7
S	.5	.5	.1	.8	.1							1.7	6.8
SSW	.1	.2	1.1	1.8	.2							3.5	11.9
SW	.2	.9	4.7	6.6	4.7	1.9	.4					18.4	14.8
WSW	.5	2.7	5.7	9.1	5.7	1.5	.1					24.7	13.4
W	1.5	2.8	3.0	4.4	2.2	1.0	.1					14.5	11.3
WNW	.9	1.1	1.2	.8	.3	.1						4.3	8.0
NW	.9	1.2	1.0	1.1	.3							4.4	8.1
NNW	.4	1.4	1.3	.9	.2							4.2	8.3
VARBL													
CALM												4.6	
	17.7	17.5	22.0	26.8	13.9	4.5	.6					170.7	10.5

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

0CT
MONTH

ALL WEATHER
CLASS

1500-1700
HOUSE (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	1.2	1.4	1.0								4.5	7.4
NNE	1.1	2.9	2.2	1.4								7.5	6.9
NE	1.6	2.5	2.7	.9	.1							7.1	6.4
ENE	1.7	1.3	.9	.3								3.3	5.8
E	.5	.3										.9	2.9
ESE	.5	.1	.1									.8	3.3
SE	.3	.2	.2									.8	4.0
SSE		.2	.2									.4	5.8
S	.6	.6	.4	.2								1.9	5.9
SSW	.9	1.3	1.4	2.2								5.7	6.7
SW	.4	2.7	6.3	6.1	3.7	.9	.1					18.9	12.1
WSW	.6	3.8	5.5	6.9	3.3	.2	.1					20.4	11.6
W	.9	2.0	3.3	4.3	1.6	.5						12.7	11.3
WNW	1.0	.9	1.3	1.0	.1	.1						4.3	8.2
NW	1.7	1.2	1.7	.9								4.7	6.8
NNW	.5	.9	.8	.3	.3							2.8	7.8
VARBL													
CALM												4.0	
	11.9	21.4	26.9	25.4	8.5	1.7	.2					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 727755 STATION NAME MALMSTROM AFB MT YEARS 74-83 MONTH OCT
 CLASS ALL WEATHER HOURS (L.S.T.) 1000-2000
 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	1.2	1.0		.2							3.7	6.5
NNE	1.1	1.6	2.0	1.1	.1							5.9	7.2
NE	1.1	.9	.8	.1								2.9	5.7
ENE	1.3	1.1										2.4	3.5
E	1.1			.1								1.2	2.9
ESE	.1	.4	.2									.8	5.6
SE	1.3	.9										2.2	3.4
SSE	1.3	1.4	.2									2.9	3.9
S	1.8	3.2	.4									5.5	4.2
SSW	.5	5.5	3.1	1.2	.2							10.5	7.3
SW	1.3	5.7	8.8	4.2	.6	.2						21.0	8.8
WSW	.4	3.7	5.1	4.2	.8	.2						14.7	9.7
W	.6	1.7	4.7	3.0	.4	.1						9.9	9.4
WNW	.8	1.6	.4	.3								3.1	5.7
NW	.4	.3	.3	.4								1.5	7.1
NNW	.3	.8	.6	.1								1.8	5.8
VARBL													
CALM												11.6	
	14.4	29.2	27.0	14.7	2.4	.6						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-03 YEARS OCT
 STATION STATION NAME MONTH
 ALL WEATHERED 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	1.0	.9	.8								3.1	6.5
NNE	.5	.9	1.1	.5	.1							3.1	7.8
NE	.9	.4	.7	.2	.1							1.6	6.3
ENE	.1		.1									.2	4.5
E	.3	.1										.4	2.7
ESE	.1	.5	.1									.9	5.0
SE	.8	.3	.5									1.5	4.5
SSE	1.6	1.2	.1									2.9	3.2
S	3.1	6.1	.9	.1								10.2	4.4
SSW	1.7	6.1	4.1	1.7								12.9	6.4
SW	2.2	6.1	9.1	4.8	1.2	.7	.1					23.9	8.6
WSW	1.2	5.9	5.6	2.7	1.2							15.9	8.1
W	.6	2.6	1.9	.9	.1							6.1	7.1
WNW	.3	1.1	.4	.4								2.3	7.7
NW	.6	1.7	.4	.1	.1							2.3	6.7
NNW	.4	.5	.7		.1							1.4	5.8
VARBL													
CALM												11.3	
	15.3	33.9	25.7	10.5	2.9	.3	.1					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.8	1.7	.7	.5	.1							3.1	6.6
NNE	.9	1.2	1.2	.7	.7	.7						4.2	6.9
NE	.8	.9	.7	.3	.7							2.9	6.1
ENE	.5	.6	.7	.7	.7							1.4	4.7
E	.6	.3	.7	.7	.7							.9	3.4
ESE	.7	.7	.1									.5	4.1
SE	.6	.3	.1									1.0	3.6
SSE	.8	.5	.1									1.7	3.3
S	1.7	2.3	.7	.7	.7							4.8	4.7
SSW	1.2	3.6	2.5	1.7	.1	.7						9.1	7.3
SW	1.6	5.7	7.8	6.7	2.1	.7	.1					23.5	10.1
WSW	1.2	4.4	5.4	5.7	2.1	.4	.7					18.6	10.2
W	1.4	2.9	3.0	2.1	.7	.2	.7					10.2	8.7
WNW	.6	.9	.7	.4	.1	.7						2.8	6.9
NW	.6	.9	.6	.5	.1	.7						2.7	7.2
NNW	.3	.8	.6	.3	.1	.7	.7					2.2	7.6
VARBL													
CALM												11.0	
	13.9	25.8	24.3	18.7	5.4	1.4	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1992-0200
NOV (L E Y)

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	.7	.7	1.0	.1							2.2	9.0
NNE	.7	1.0	1.3	.1								3.1	6.7
NE	.4	.3	.7									1.7	4.4
ENE	.6	.7										.9	2.9
E	.1	.2										.3	4.3
ESE		.4										.4	4.3
SE	.7	.1	.1									.9	3.4
SSE	.7	.2	.1									1.0	3.3
S	1.7	3.7	.4	.1								4.9	5.7
SSW	1.8	3.4	3.6	2.4	.2							11.4	7.3
SW	1.1	5.8	11.6	9.2	2.7	1.7	.7					21.2	10.5
WSW	1.0	4.7	5.7	5.1	1.6	.7	.7	.1				17.6	12.5
W	.9	2.7	1.4	1.8	.3	.1						7.1	8.2
WNW	.7	.7	.6	.2								2.4	6.2
NW	.8	.9	.2	.1								1.7	5.7
NNW	.3	.6	.4	.9								2.2	8.4
VARBL													
CALM												11.6	
	17.3	24.3	26.2	21.0	4.2	1.9	.4	.1				172.0	7.8

TOTAL NUMBER OF OBSERVATIONS 520

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 ATR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION 727755 STATION NAME MALMSTROM AFB MT YEARS 74-83 MONTH NOV
 CLASS ALL WEATHER HOURS (L.S.T.) 2300-0500
 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	.6	.3	1.1								2.3	9.6
NNE	.4	1.1	1.7	.1								2.7	6.3
NE	.6	.3										.9	3.4
ENE	.4	.7										.7	3.7
E	.2		.1									.3	3.7
ESE			.1									.1	7.7
SE	.7	.1										.3	3.3
SSE	.2	.2										.4	3.5
S	1.4	2.8	.6	.4	.1							5.3	5.4
SSW	1.2	3.3	3.7	1.8	.1	.1						10.2	7.5
SW	1.3	5.7	11.4	8.8	2.2	.6	.4	.1				30.6	10.3
WSW	1.4	4.1	6.3	7.4	.6	1.1	.3					22.9	10.5
W	1.1	3.1	2.0	.8	.4							7.4	7.2
WNW	.4	.7	.4	.3								1.9	6.2
NW	.3	.8	.8	.3								2.2	6.7
NNW	.1	.6	.6	.7	.1							2.0	8.9
V > 41												11.7	
CALM													
	9.9	23.6	27.3	21.3	3.6	1.8	.8	.1				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 970

GLOPAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 STATION MALMSTROM AFB MT 74-83 YEARS NOV MONTH
 ALL WEATHER CLASS 0600-2800 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	1.4	.3	.8	.1							1.1	2.8
NNE	.7	.9	.6	.1	.2							2.4	6.5
NE	.8	.2	.1	.3								1.4	5.2
ENE	.8	.4										1.2	2.8
E	.1	.7										.3	3.7
ESE	.2	.1	.2									.6	5.4
SE	.4	.1										.6	2.6
SSE	.2											.2	2.0
S	.6	1.7	.1	.3								2.7	5.5
SSW	1.4	4.1	2.4	3.7	.7	.1						11.8	8.4
SW	2.2	5.4	17.6	8.8	3.2	.3	.3					39.9	10.2
WSW	1.3	2.8	7.2	6.7	.8	1.4	.1					19.7	10.8
W	1.1	2.8	2.4	.9	.4	.1	.1					7.9	7.8
WNW	.6	.8	.2									1.6	4.4
NW	.6	.9	.8	.2								2.4	6.7
NNW	.4	.9	.4	.4								2.2	6.5
VARBL													
CALM												11.0	
	11.9	22.8	25.4	20.9	5.4	2.7	.6					100.0	8.0

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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH
 0000-1100
HOURS (L.S.T.)

ALL WEATHER
CLASS

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	1.2	.9	.8		.7						3.4	8.8
NNE	1.2	1.4	.9	.4	.7	.1						4.2	6.8
NE	.6	1.6	.2	.1								2.4	4.8
ENE	.2											.2	2.5
E	.7	.1										.3	3.0
ESE	.1	.2	.4									.6	5.6
SE	.2	.7	.1									.6	4.6
SSE	1.0											1.7	2.1
S	1.7	.7	.3	.4	.1							2.6	6.1
SSW	.9	1.5	1.9	3.1	1.4	.3						8.2	10.7
SW	1.6	2.4	6.6	13.7	3.7	1.7						28.5	12.3
WSW	.9	2.0	5.3	7.7	4.3	2.8	.1					22.2	13.5
W	1.3	2.4	2.9	1.3	.7	.8	.3	.1	.1			9.6	9.9
WNW	.6	.4	.8	.2	.1							2.1	7.1
NW	1.3	.7	.8	.2	.1							2.7	6.1
NNW	1.1	.8	.7	.2	.1							2.6	5.3
VARBL													
CALM												9.8	
	12.6	15.3	21.1	26.6	9.9	5.1	.6	.1	.1			100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-83 NOV
STATION STATION NAME YEARS MONTH

ALL WEATHER CLASS 1200-1400
HOURE (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	1.1	.8	.8	.2	.1						4.4	7.4
NNE	.8	2.1	1.1	1.1	.2							5.3	7.5
NE	.8	1.3	.9									2.9	5.0
ENE	.9	.7	.1									1.6	3.9
E	.6	.2										.9	2.7
ESE	.4	.4										.9	3.7
SE	.2	.1										.3	3.0
SSE	.2	.7	.1									1.0	4.8
S	.2	.7		.2								1.1	6.4
SSW	.4	.6	.8	2.8	1.0	.7						5.9	12.7
SW	.6	.1	3.2	11.1	4.4	2.6	.7					22.7	15.4
WSW	.4	1.6	4.7	10.0	4.3	2.1	.7	.1				23.9	14.4
W	1.0	1.9	2.4	3.6	1.9	1.6	.2	.1				12.7	13.1
WNW	.9	.7	1.8	.9	.3							4.6	8.3
NW	.9	.4	1.2	1.0	.2							3.8	8.1
NNW	.8	1.2	.4	.2	.2							2.9	6.4
VARBL													
CALM												5.3	
	10.4	13.8	17.4	31.7	12.9	6.7	1.6	.2				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AWP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755 MALMSTROM AFB MT 74-93 NOV
STATION STATION NAME YEARS

ALL WEATHER 1500-1700
CLASS 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	.3	1.8	.4	.8	.6							3.9	8.8
NNE	1.1	2.0	1.0	.9	.6							5.6	7.6
NE	1.4	2.6	1.4	.2								5.7	5.4
ENE	.7	1.2	.1									2.7	4.4
E	.3	.1										.4	2.0
ESE	.2	.1										.3	3.0
SE	.2	.1	.1									.4	4.3
SSE	.4	.3										.8	2.7
S	.8	1.1	.3	.6								2.3	6.3
SSW	.9	1.1	2.2	1.6	.4	.1	.1					6.5	9.6
SW	.7	3.7	5.7	8.7	3.4	1.1	.1					23.4	12.0
WSW	.4	2.6	4.7	7.5	3.4	1.5	.2	.1				20.5	13.2
W	.3	1.8	2.4	3.9	2.3	1.1						11.9	13.1
WNW	.2	.8	1.3	.7								3.2	8.1
NW	.7	.4	.6	.9		.1						2.7	8.6
NNW	.9	1.7	.6	1.1	.2							3.8	7.8
VARBL													
CALM												6.5	
	9.7	20.7	20.9	26.7	11.0	4.0	.4	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
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	.6	.2	.8	.1							2.8	7.2
NNE	1.6	1.7	1.3	.2								4.8	5.3
NE	.8	.9	1.0									2.7	5.6
ENE	1.7	.3	.1									1.4	2.8
E	.8	.2										1.0	2.9
ESE	.1	.1										.2	3.5
SE	.1	.2	.1									.4	4.8
SSE	1.2	.3	.3									1.9	3.5
S	1.4	3.1	.6	.2								5.4	4.7
SSW	1.3	4.7	3.7	2.5		.2						11.7	7.7
SW	.8	5.9	9.6	7.6	1.6	.7	.1					25.9	10.2
WSW	.3	2.5	5.2	6.7	2.2	.6						17.5	11.6
W	.6	1.7	2.9	2.6	.8							8.5	12.0
WNW	.2	.8	1.2	.2								2.5	7.2
NW	.3	.9	1.2	.6	.1							3.1	7.6
NNW	.7	.3	.8	.8								2.6	7.3
VARBL													
CALM												7.7	
	12.0	24.2	27.6	22.1	4.8	1.4	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

897

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

ALL WEATHERED
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	.6	.8	1.1								3.3	7.7
NNE	.9	.9	1.7	.3								3.0	6.1
NE	.9	1.7	1.7									2.9	5.3
ENE	.3	.3										.7	2.8
E	.7	.1										.3	3.0
ESE	.2	.1										.3	3.7
SE		.4										.4	4.8
SSE	.2	.3	.2									.8	4.6
S	2.7	3.1	.9	.4								6.5	5.1
SSW	1.7	5.1	4.1	1.8	.3	.1						12.3	7.5
SW	1.2	4.7	12.2	9.7	1.9	.7	.1	.1				28.9	10.2
WSW	1.3	3.5	4.6	5.2	1.3	.7						16.6	10.2
W	1.7	2.6	2.7	2.1	.4							8.1	8.5
WNW	1.1	.3	1.1	.3	.1							3.7	6.6
NW	.4	1.7	.6									2.7	5.3
NNW	.4	.7	.2	.2								1.1	5.9
VARBL													
CALM												9.1	
	12.5	24.3	28.7	19.6	4.1	1.4	.1	.1				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
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	.7	1.7	.6	.9	.1	.7						3.3	8.2
NNE	.9	1.4	1.7	.4	.2	.7						3.9	6.6
NE	.8	1.7	.6	.1								2.5	5.1
ENE	.6	.4	.7									1.1	3.4
E	.3	.2	.7									.5	3.7
ESE	.2	.2	.1									.4	4.2
SE	.2	.2	.1									.5	3.8
SSE	.5	.3	.1									.9	3.5
S	1.1	2.7	.4	.3	.7							3.9	5.4
SSW	1.2	3.7	2.7	2.2	.5	.2	.7					9.8	8.5
SW	1.1	4.2	8.8	9.4	2.8	1.1	.3	.7				77.7	11.2
WSW	.9	2.9	5.4	6.9	2.2	1.3	.2	.7	.7			19.9	12.0
W	.9	2.4	2.3	2.1	.9	.4	.1	.7				9.1	10.1
WNW	.6	.6	1.7	.4	.1							2.5	7.1
NW	.6	.7	.8	.4	.1	.7						2.6	7.7
NNW	.6	.7	.5	.6	.1							2.4	7.1
VARBL													
CALM												9.3	
	11.2	21.1	24.3	23.7	7.0	3.0	.6	.1	.7			177.7	8.8

TOTAL NUMBER OF OBSERVATIONS

7193

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-82
YEARS

DEC
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	.3	1.3	1.2	.4								3.2	6.8
NNE	1.2	1.7	1.3	.5	.1							4.8	6.3
NE	.8	.9	1.7	.2								2.8	5.9
ENE	.1	.2	.1									.6	4.2
E	.2	.1										.3	3.3
ESE	.2											.2	2.7
SE													
SSE		.2	.2									.4	6.3
S	1.7	1.1	.3									3.1	4.1
SSW	.8	2.1	2.4	3.0	.8	.4						9.4	10.3
SW	1.4	4.5	9.1	17.9	5.4	1.1	.4					22.8	12.0
WSW	.6	3.2	5.9	5.7	3.3	1.2	.2	.1				20.3	12.1
W	1.6	2.0	2.4	1.3	.2	.1	.1					7.7	7.8
WNW	.5	.1	.5	.1								1.3	5.6
NW	.1	1.1	.5	.4								2.2	7.1
NNW	.2	.4	.5	.2	.2	.1						1.7	9.9
VARBL													
CALM												9.0	
	10.7	18.9	25.5	22.8	10.0	2.9	.8	.1				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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-82
YEARS

DEC
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	.3	1.3	.3	.2								2.6	5.2
NNE	.8	2.0	1.0	.4	.1							4.3	6.3
NE	.9	1.3	.3	.2	.1							2.8	5.6
ENE	.4	.3	.1	.1								1.7	4.9
E	.6	.1										.8	2.7
ESE													
SE				.1								.1	14.0
SSE	.3	.1										.4	2.5
S	.6	1.5	.4	.2	.2							3.7	6.3
SSW	1.6	2.3	1.9	2.4	1.3	.7						9.7	9.4
SW	1.7	5.4	6.6	11.0	5.3	2.3		.2				73.1	12.6
WSW	1.2	2.8	4.8	6.2	2.9	1.4	.2					19.6	12.3
W	.6	2.0	2.2	.9	.4	.2						6.3	8.9
WNW	.4	1.3	.3	.2								2.3	5.7
NW	.4	.2	.4	.5	.1							1.7	8.7
NNW	.1	.9	.1	.5	.1							1.7	7.8
VARBL													
CALM												10.6	
	10.5	21.5	18.5	23.0	10.5	4.1	1.0	.2				100.0	9.3

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)

707755
STATION

MALMSTROM AFB MT
STATION NAME

77-92
YEARS

DEC
MONTH

ALL WEATHER
CLASS

3630-7800
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	.9	1.1	.6								3.3	6.6
NNE	1.3	1.0	1.2	.8								4.7	5.5
NE	.5	1.3	.3	.1								2.3	5.0
ENE	.3	.8	.2	.1								1.4	5.4
E	.1											.1	1.0
ESE	.1											.2	2.7
SE	.1	.1										.2	3.0
SSE	.1	.2		.1								.4	6.0
S	1.2	.5	.1	.3								2.2	4.9
SSW	1.1	2.7	1.4	2.5	1.6	.3	.1					9.7	10.7
SW	1.9	4.4	7.4	17.8	5.1	1.9	.5	.2				32.3	12.4
WSW	.4	2.0	4.4	7.4	2.6	1.4	.5					20.5	12.9
W	1.2	1.6	1.8	.6	.3	.1						5.7	7.6
WNW	.1	.4	.4	.1	.3							1.4	9.2
NW	.1	.5	.3	.6								1.8	7.9
NNW	.3	1.3	.4	.4	.2							2.7	7.4
VARBL													
CALM												11.1	
	10.0	19.6	19.6	24.1	10.1	4.2	1.2	.2				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)

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-92
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0000-1100
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	.4	.9	1.4	1.1								3.7	8.1
NNE	.5	2.6	1.1	.6								4.9	6.4
NE	1.7	1.4	.9	.1								3.3	5.3
ENE	.2	.1	.1									.4	5.3
E	.5	.2	.1									.9	4.0
ESE	.1	.2	.1									.4	4.8
SE	.4	.1	.1									.6	4.0
SSE	.4	.2										.6	2.7
S	1.1	.5	.3									1.9	4.1
SSW	1.2	1.2	2.7	2.0	1.7	.7	.2					9.8	11.6
SW	1.7	4.1	5.4	17.1	6.7	2.7	.6	.1				11.4	13.4
WSW	.3	3.2	3.8	8.5	4.4	2.9	.4					23.4	14.2
W	1.1	1.4	.9	1.1	.5	.3						5.3	9.3
WNW	.2	1.1	.4	.2	.1							2.7	6.8
NW	.4	.5	.4	.2								1.6	6.3
NNW	.3	.3	.8	.8								2.2	8.8
VARBL													
CALM												9.5	
	10.0	18.7	17.8	24.7	13.4	6.1	1.3	.1				100.0	12.5

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)

727755 MALMSTROM AFB MT 77-02 DEC
STATION STATION NAME YEAR MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L & 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	1.2	1.0	.6								4.8	6.8
NNE	.8	1.7	1.6	.6								4.7	6.7
NE	1.2	1.0	1.0	.1								4.2	5.0
ENE	.3	.4	.1	.1								1.7	5.1
E	.6	.4	.1									1.2	3.3
ESE		.1	.1									.2	6.0
SE	.3	.3										.6	3.5
SSE		.3										.3	4.7
S	.6	.3	.1									1.1	3.1
SSW	.3	.0	.8	.8	1.4	.4						4.5	12.4
SW	.6	1.3	4.6	8.7	7.1	3.9	1.0	.1				27.2	15.7
WSW	.3	1.7	4.5	9.7	5.8	4.3	1.4	.2				27.2	16.0
W	.5	1.4	1.9	2.2	1.7	1.3		.1				9.7	14.0
WNW	.3	.8	.6	.4								2.2	7.1
NW	.8	1.7	1.0	.6								3.3	7.2
NNW	.5	.4	.0	1.7	.3							3.1	9.8
VARBL													
CALM												4.5	
	8.4	14.2	19.2	24.2	16.3	10.2	2.4	.4				100.0	12.3

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)

727755 MALMSTROM AFB MT 77-82 DEC
STATION STATION NAME YEARS MONTH

ALL WEATHER 1500-1700
CLASS HOURS (L & 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	1.2	.7	.2							5.3	6.3
NNE	1.7	1.8	2.4	.7								6.2	5.9
NE	.9	2.3	1.7	.1								4.1	5.3
ENE	.6	1.4	.7									2.3	4.4
E	.9	.7	.1									1.1	3.0
ESE	.4											.4	2.0
SE	.7											.7	3.7
SSE	.3											.3	2.3
S	.4	.6	.7	.3	.1							1.7	6.7
SSW	.5	1.3	1.8	1.0	.6	.1						6.3	10.0
SW	.4	3.5	5.2	8.7	5.6	2.4	.8	.1				26.7	13.8
WSW	.3	.6	3.8	8.7	5.1	2.5	.5					21.5	15.2
W	.4	1.1	1.5	3.5	1.4	.6	.1					8.7	12.9
WNW	.1	.5	.3	.3	.1	.1						1.5	9.7
NW	.6	1.2	1.5	.5								3.0	7.1
NNW		.6	1.7	.6	.5							2.8	11.2
VARBL													
CALM												7.0	
	8.8	17.7	20.1	25.5	13.7	5.7	1.4	.1				100.0	17.6

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)

727755
STATION

HALMSTROM AFB MT
STATION NAME

73-82
YEARS

DEC
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	1.9	1.2	.9								4.9	6.6
NNE	.9	2.4	1.1	.8	.1							4.8	6.5
NE	1.2	1.7	.6	.2								3.7	5.0
ENE	.1	.3	.3									.8	5.6
E	.1	.1										.3	3.0
ESE													
SE	.3											.3	2.3
SSE	.5	.3										.9	3.3
S	.9	1.9	.6	.3	.1							3.9	5.6
SSW	1.3	2.5	3.4	1.4	.6	.3		.1				9.7	8.9
SW	1.2	3.4	9.6	9.1	4.9	1.2		.1				22.0	12.0
WSW	.2	2.7	4.3	6.8	2.7	1.7	.1					18.5	12.9
W	.3	1.3	1.7	2.7	.9	.3						7.2	11.6
WNW	.3	.6	.9	.7								2.2	6.9
NW	.5	1.2	1.1	.8								3.3	6.9
NNW	.6	1.7	.8	.3	.1							2.8	6.7
VARBL													
CALM												7.5	
	9.6	27.5	25.6	23.0	9.5	3.5	.5	.2				100.0	9.3

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)

727755 MALMSTROM AFB MT 77-82 DEC
STATION STATION NAME YEARS MONTH

ALL WEATHER 2100-2300
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	.4	1.6	.9	.3								3.2	6.5
NNE	1.2	1.1	1.7	.6	.2							4.1	6.8
NE	.4	1.2	.8	.3	.1							2.5	6.1
ENE	.5	.4	.1									1.1	3.5
E	.2	.1										.3	3.0
ESE	.3	.2	.1									.6	4.5
SE	.1											.1	2.0
SSE	.5	.3										.9	3.1
S	1.2	1.7	.6	.1	.1							3.0	5.4
SSW	.8	2.5	2.5	2.4	.9	.1						9.0	9.4
SW	1.5	4.9	7.6	11.2	4.4	1.7	.3	.3				12.0	12.1
WSW	1.3	3.4	4.9	5.3	1.8	1.9	.3	.1				19.1	12.0
W	.4	2.0	1.7	1.9	1.0	.2						7.3	10.2
WNW	.2	.9	.5	.1								1.7	6.2
NW	.3	1.5	.3	.1								2.3	5.6
NNW	.5	.6	.9	.5	.4							2.9	8.7
VARBL													
CALM												9.7	
	10.0	21.8	21.8	22.7	8.9	4.2	.6	.4				100.7	9.1

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)

STATION 707755 HALMSTROM AFB MT 73-62 YEARS DEC
STATION NAME CLASS MONTH

ALL WEATHER ALL
CONDITION HOURLY (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	.7	1.4	1.1	.6	.0							3.9	6.7
NNE	1.0	1.9	1.3	.5	.1							4.8	6.3
NE	.8	1.4	.7	.1	.0							3.1	5.4
ENE	.4	.5	.2	.0								1.1	4.7
E	.4	.2	.0									.6	3.2
ESE	.2	.1	.0									.3	3.7
SE	.2	.1	.0	.0								.3	3.8
SSE	.3	.2	.0	.0								.5	3.7
S	1.0	.9	.3	.2	.1							2.5	5.2
SSW	.9	1.9	2.0	2.0	1.1	.3	.0	.0				8.4	10.2
SW	1.3	4.0	6.9	12.1	8.6	2.1	.6	.1				20.7	12.9
WSW	.6	2.6	4.6	7.2	3.6	2.2	.5	.1				21.3	13.6
W	.8	1.6	1.8	1.8	.8	.5	.0	.0				7.2	10.6
WNW	.3	.7	.5	.2	.1	.0						1.8	7.0
NW	.4	.9	.7	.5	.0							2.5	7.1
NNW	.3	.7	.6	.6	.2	.0						2.5	8.8
VARBL													
CALM												8.5	
	9.7	19.0	21.0	23.7	11.6	5.1	1.1	.2				100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 7442

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

SURFACE WINDS

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

72775E MALMSTROM AFB MT 73-83 ALL MONTHS
 STATION STATION NAME YEAR
 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	1.4	1.2	.7	.1	.0						4.5	7.1
NNE	1.1	1.8	1.5	.7	.1	.0	.0					5.1	6.8
NE	1.0	1.6	1.2	.5	.0	.0						4.3	6.3
ENE	.8	.9	.5	.2	.0	.0						2.4	5.5
E	.8	.7	.3	.1	.0	.0						1.8	4.7
ESE	.4	.4	.2	.1	.0	.0						1.0	5.3
SE	.5	.4	.2	.1	.0	.0	.0					1.3	5.0
SSE	.6	.6	.2	.1	.0	.0						1.5	4.6
S	1.5	2.1	.8	.2	.0	.0						4.6	5.1
SSW	1.3	2.9	1.7	1.1	.3	.1	.0	.0				7.5	7.3
SW	1.4	4.2	5.6	5.2	1.8	.7	.1	.0	.0			19.1	10.3
WSW	1.1	3.1	4.2	4.9	2.0	.8	.1	.0	.0			16.1	11.1
W	1.3	2.7	3.1	2.6	.9	.4	.0	.0	.0			10.9	9.5
WNW	.7	1.1	1.0	.5	.1	.0	.0					3.5	7.4
NW	.7	1.0	.9	.5	.1	.0	.0					3.2	7.1
NNW	.5	.9	.8	.6	.1	.0	.0					3.0	7.7
VARBL													
CALM												10.2	
	14.5	25.8	23.4	19.1	5.7	2.0	.3	.0	.0			100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 87640

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

727755
STATION

HALMSTROM AFB MT
STATION NAME

73-83
YEARS

ALL
MONTHS

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/O IS 200 FT OR MORE

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	1.7	4.6	5.1	4.6	.8	.3						17.1	9.1
NNE	2.2	5.8	6.5	4.0	.9	.1	.0					19.5	8.2
NE	1.1	3.2	3.9	2.1	.3							9.6	8.0
ENE	.7	1.2	.5	.2	.1	.7						2.7	6.1
E	.5	.2	.1	.0	.0							.3	4.7
ESE	.2	.2	.1									.5	3.9
SE	.7	.1										.3	2.9
SSE	.1	.1	.0									.3	4.1
S	.2	.3	.7									.5	3.8
SSW	.5	.5	.1	.1								1.2	4.3
SW	.6	.9	.8	.2	.0	.1	.7					2.7	6.9
WSW	.3	1.3	1.3	.8	.2	.1			.0			4.1	8.8
W	.8	2.5	2.1	1.3	.2	.7						6.9	7.6
WNW	.6	1.9	1.7	.5	.1	.7						4.9	7.3
NW	.9	2.4	2.5	1.9	.4	.1						8.2	8.6
NNW	1.2	2.9	3.5	3.3	.9	.7						11.9	9.4
VARBL													
CALM												8.8	
	12.7	28.7	27.1	19.0	4.1	.9	.0		.0			100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

5206

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.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. 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 1949 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. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the >10 mi visibility category should be used with great caution.

(continued on Reverse Side

EXAMPLE: FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

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

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

000-0200
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥10000	48.6	49.5	49.8	50.1	50.4	50.4	50.8	50.8	50.8	50.8	50.8	50.8	50.9	50.9	50.9	51.0
≥9000	53.9	54.8	55.2	55.5	55.9	55.9	56.3	56.3	56.3	56.3	56.3	56.3	56.5	56.5	56.5	56.6
≥8000	54.0	54.9	55.3	55.6	56.0	56.0	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.7
≥7000	54.7	54.9	55.3	55.6	56.0	56.0	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.7
≥6000	54.6	55.8	56.1	56.5	56.9	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.5
≥5000	56.8	58.0	58.3	58.6	59.0	59.0	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.7
≥4000	65.3	66.5	66.8	67.3	67.8	67.8	68.4	68.4	68.4	68.4	68.4	68.4	68.5	68.5	68.5	68.5
≥3000	66.1	67.4	67.7	68.3	68.8	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5	69.6
≥2000	71.6	73.1	73.5	74.1	74.6	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.4
≥1500	72.8	74.4	74.9	75.5	76.0	76.0	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.8
≥1000	73.1	74.7	75.5	76.0	76.6	76.6	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.3
≥800	74.4	76.2	77.2	77.7	78.3	78.3	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9	79.0
≥700	74.8	76.9	78.0	78.5	79.0	79.0	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.8
≥600	77.3	79.7	81.7	81.5	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.9
≥500	78.4	81.5	82.9	83.5	84.4	84.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.6
≥400	79.8	83.5	85.3	85.9	86.8	86.9	88.1	88.4	88.4	88.4	88.7	88.7	88.8	88.8	88.8	88.9
≥300	81.5	84.5	86.3	87.1	88.2	88.4	89.7	90.0	90.0	90.3	90.3	90.3	90.4	90.4	90.4	90.5
≥200	81.1	85.3	87.2	88.3	89.7	89.9	91.2	91.5	91.5	92.0	92.0	92.0	92.2	92.2	92.2	92.3
≥100	81.4	85.8	87.7	88.8	90.3	90.5	91.8	92.2	92.2	92.8	92.8	92.8	92.9	92.9	92.9	93.0
≥80	82.2	87.1	89.1	90.4	92.0	92.3	93.7	94.4	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.3
≥70	82.4	87.5	89.7	91.1	92.8	93.1	94.5	95.5	95.8	96.7	96.7	96.7	96.8	96.8	96.8	96.9
≥60	82.4	87.6	89.9	91.3	93.7	93.4	94.9	96.1	96.5	97.3	97.3	97.3	97.4	97.4	97.4	97.5
≥50	82.4	87.6	90.0	91.4	93.2	93.7	95.2	96.3	96.7	97.7	97.7	97.7	97.8	97.8	97.8	98.0
≥40	82.4	87.6	90.0	91.4	93.2	93.7	95.3	96.5	96.8	98.0	98.0	98.0	98.1	98.1	98.1	98.2
≥30	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.7	97.7	98.3	98.3	98.3	98.4	98.4	98.4	98.5
≥20	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.7	97.7	98.6	98.6	98.6	98.7	98.7	98.7	98.8
≥10	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2
≥5	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2
≥3	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2
≥2	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2
≥1	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2
≥0	82.4	87.6	90.0	91.4	93.2	93.7	95.4	96.8	97.3	99.0	99.0	99.0	99.1	99.1	99.1	99.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

JAN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS UTC

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.16	≥0.1	≥0	
NO CEILING	47.4	48.4	48.6	49.7	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.7	49.8
≥ 2000	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1800	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1600	52.7	53.8	54.7	54.1	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1	55.2
≥ 1400	53.2	54.3	54.5	54.6	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.7
≥ 1200	54.9	56.1	56.3	56.5	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.8
≥ 1000	64.8	66.3	66.9	67.0	67.8	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.5	68.7
≥ 900	65.8	67.4	68.0	68.1	68.9	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.8
≥ 800	71.9	71.8	72.4	72.5	73.3	73.4	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.2
≥ 700	71.2	73.0	73.5	73.7	74.5	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.4
≥ 600	71.4	73.3	73.9	74.0	74.8	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.7
≥ 500	73.1	75.5	76.7	76.2	77.1	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	78.1
≥ 450	74.3	76.9	77.4	77.6	78.5	78.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.5
≥ 400	75.8	78.7	79.6	79.9	81.9	81.1	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	82.2
≥ 350	76.9	81.1	81.1	81.5	82.5	82.7	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	84.1
≥ 300	78.1	81.7	83.1	83.5	84.7	85.1	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5	86.7
≥ 250	79.0	82.8	84.4	84.9	86.2	86.7	87.5	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.2	88.4
≥ 200	80.1	84.2	86.7	87.0	88.5	89.0	89.9	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.9
≥ 180	81.1	84.4	86.2	87.3	88.8	89.4	91.2	91.6	91.8	90.9	90.9	90.9	90.9	90.9	91.0	91.2
≥ 150	80.8	85.9	88.7	89.1	90.9	91.4	92.5	93.2	93.3	93.7	93.7	93.7	93.7	93.7	93.8	94.0
≥ 120	81.9	86.2	88.5	89.8	91.8	92.5	93.5	94.4	94.5	94.9	94.9	94.9	94.9	94.9	95.1	95.3
≥ 1000	81.7	86.3	88.6	90.0	92.2	92.8	93.9	95.2	95.3	95.7	95.7	95.7	95.7	95.7	95.8	96.0
≥ 900	81.0	86.3	88.6	90.0	92.2	92.8	93.9	95.2	95.3	95.7	95.7	95.7	95.7	95.7	95.8	96.0
≥ 800	81.0	86.3	88.6	90.0	92.2	92.8	93.9	95.5	95.6	96.0	96.0	96.0	96.0	96.0	96.1	96.3
≥ 700	81.1	86.5	88.7	91.1	92.3	92.9	94.1	95.7	95.8	96.3	96.3	96.3	96.3	96.3	96.5	96.7
≥ 600	81.1	86.6	88.8	91.2	92.4	93.0	94.1	96.0	96.1	97.2	97.2	97.2	97.2	97.2	97.3	97.5
≥ 500	81.1	86.6	88.8	90.2	92.4	93.0	94.1	96.1	96.3	97.7	97.7	97.7	97.7	97.7	97.8	98.1
≥ 400	81.1	86.8	89.7	90.4	92.7	93.3	94.4	96.5	96.7	98.1	98.1	98.1	98.1	98.1	98.2	98.4
≥ 300	81.1	86.9	89.1	91.5	92.8	93.4	94.5	96.6	96.8	98.2	98.2	98.2	98.2	98.2	98.5	98.9
≥ 200	81.1	86.9	89.1	90.5	92.8	93.4	94.5	96.6	96.8	98.2	98.2	98.2	98.2	98.2	98.6	98.9
≥ 100	81.1	86.9	89.1	90.5	92.9	93.5	94.6	96.8	97.1	98.5	98.5	98.5	98.5	98.5	98.9	99.9
≥ 0	81.1	86.9	89.1	91.5	92.9	93.5	94.6	96.8	97.1	98.5	98.5	98.5	98.5	98.5	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 1224 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 LC AFFTAC
 AIR WEATHER SERVICE/FAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2600-2877

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ 0
NO CEILING	45.2	45.4	45.7	45.7	45.9	46.2	46.2	46.1	46.1	46.1	46.2	46.2	46.2	46.3	46.7	46.8
≥ 2000	51.7	52.4	52.7	52.8	53.0	53.1	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.4	53.8	53.9
≥ 1800	51.8	52.5	52.8	52.9	53.1	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.5	53.9	54.0
≥ 1600	51.8	52.5	52.8	52.9	53.1	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.5	53.9	54.0
≥ 1400	52.6	53.2	53.5	53.7	53.9	54.0	54.0	54.1	54.1	54.1	54.2	54.2	54.2	54.3	54.6	54.7
≥ 1200	54.6	55.3	55.6	55.7	55.9	56.0	56.0	56.1	56.1	56.1	56.2	56.2	56.2	56.3	56.7	56.8
≥ 1000	62.4	63.1	63.3	63.4	64.0	64.1	64.1	64.2	64.2	64.2	64.3	64.3	64.3	64.4	64.7	64.8
≥ 900	62.9	63.5	63.9	64.0	64.5	64.6	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.9	65.3	65.4
≥ 800	67.2	67.8	68.2	68.4	68.9	69.4	69.4	69.1	69.1	69.1	69.2	69.2	69.2	69.4	69.7	69.8
≥ 700	67.8	68.5	68.8	69.0	69.6	69.7	69.7	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.3	70.4
≥ 600	68.8	69.5	69.9	70.1	70.6	70.8	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.1	71.4	71.5
≥ 500	71.5	72.5	72.9	73.1	73.7	73.8	73.8	73.9	73.9	73.9	74.0	74.0	74.0	74.1	74.4	74.5
≥ 450	72.7	73.9	74.3	74.6	75.2	75.3	75.3	75.4	75.4	75.4	75.5	75.5	75.5	75.6	75.9	76.0
≥ 400	74.6	76.2	76.7	77.3	77.8	78.1	78.2	78.3	78.3	78.3	78.4	78.4	78.4	78.5	78.8	78.9
≥ 350	75.5	77.4	78.3	79.2	80.1	80.5	80.5	80.9	80.9	80.9	81.0	81.0	81.0	81.1	81.4	81.5
≥ 300	76.6	79.7	80.6	81.7	82.7	83.2	83.5	83.8	83.8	83.8	83.9	83.9	83.9	84.0	84.3	84.4
≥ 250	77.8	81.6	82.8	84.2	85.7	86.3	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.3	87.6	87.7
≥ 200	78.5	82.8	84.3	85.7	87.3	88.1	88.8	89.1	89.1	89.2	89.4	89.4	89.4	89.5	89.8	89.9
≥ 180	78.8	83.1	84.6	86.0	87.6	88.5	89.2	89.6	89.7	89.8	89.9	89.9	89.9	90.0	90.3	90.4
≥ 150	79.4	84.1	85.7	87.2	89.1	90.0	90.9	91.6	91.8	92.0	92.2	92.2	92.2	92.3	92.6	92.7
≥ 120	79.6	84.3	85.9	87.4	89.5	90.3	91.3	92.0	92.3	92.6	92.7	92.7	92.7	92.8	93.1	93.2
≥ 100	79.7	84.8	86.8	88.5	91.0	91.8	92.9	93.7	94.0	94.4	94.5	94.5	94.6	94.7	95.1	95.2
≥ 90	79.7	84.9	86.9	88.6	91.1	91.9	93.4	93.8	94.1	94.5	94.6	94.6	94.7	94.8	95.2	95.3
≥ 80	79.8	85.1	87.1	88.7	91.2	92.0	93.1	94.3	94.7	95.2	95.3	95.3	95.4	95.5	95.8	95.9
≥ 70	81.0	85.3	87.2	89.0	91.6	92.5	93.9	94.7	95.2	95.6	95.7	95.7	95.8	95.9	96.2	96.3
≥ 60	81.0	85.3	87.2	89.0	91.6	92.5	93.9	94.7	95.2	95.6	95.7	95.7	95.8	95.9	96.2	96.3
≥ 50	81.1	85.5	87.4	89.2	91.8	92.8	93.9	95.7	96.1	96.8	97.2	97.2	97.4	97.6	98.0	98.1
≥ 40	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.0
≥ 30	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.2	98.4	98.8	99.1
≥ 20	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.4	97.8	97.8	98.4	98.7	99.2	99.5
≥ 10	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.5	98.0	98.0	98.6	98.9	99.5	99.9
≥ 0	81.1	85.6	87.5	89.4	92.0	93.0	94.1	96.1	96.7	97.5	98.0	98.0	98.6	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

000-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.3	≥.2	≥.15	≥.1	≥.05	≥.0
NO CEILING	42.6	43.4	43.9	44.2	44.6	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9
≥ 2000	47.5	48.5	48.8	49.2	49.7	49.7	49.8	49.9	49.9	49.9	49.9	50.0	50.0	50.0	50.0	50.0
≥ 1800	47.8	48.8	49.1	49.6	50.0	50.0	50.1	50.2	50.2	50.2	50.2	50.3	50.3	50.3	50.3	50.3
≥ 1600	48.1	49.0	49.4	49.8	50.2	50.2	50.3	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5
≥ 1400	49.2	50.2	50.5	51.0	51.4	51.4	51.5	51.6	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7
≥ 1200	54.4	55.5	55.8	56.2	56.7	56.7	56.8	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0
≥ 1000	62.2	63.3	63.7	64.1	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8
≥ 900	63.0	64.2	64.5	64.9	65.5	65.5	65.8	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0	66.0
≥ 800	67.1	68.5	68.9	69.4	70.0	70.0	70.4	70.5	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6
≥ 700	69.1	70.5	71.0	71.4	72.0	72.0	72.5	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7
≥ 600	70.5	72.2	72.6	73.1	73.9	73.9	74.4	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6
≥ 500	71.8	73.4	73.9	74.4	75.2	75.2	75.7	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9
≥ 450	72.4	74.4	74.8	75.5	76.2	76.2	76.8	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0
≥ 400	75.4	77.6	78.1	78.7	79.6	79.6	80.1	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3
≥ 350	76.5	79.5	80.3	81.2	82.4	82.4	83.0	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3
≥ 300	76.6	80.0	81.0	81.9	83.5	83.7	84.4	84.6	84.7	85.1	85.1	85.2	85.2	85.2	85.3	85.3
≥ 250	77.2	80.9	81.9	83.3	85.5	85.8	86.9	87.1	87.2	87.6	87.6	87.7	87.7	87.7	87.8	87.8
≥ 200	77.5	81.4	82.5	84.2	86.5	87.0	88.3	88.8	89.0	89.6	89.6	89.7	89.7	89.7	89.8	89.8
≥ 180	77.8	81.5	82.6	84.3	86.6	87.1	88.4	88.9	89.2	89.9	89.9	90.0	90.0	90.0	90.1	90.1
≥ 150	78.0	81.9	83.1	84.9	87.3	88.0	89.4	90.0	90.4	91.3	91.3	91.4	91.4	91.4	91.5	91.5
≥ 120	78.0	82.0	83.5	85.6	88.2	88.8	90.4	91.2	91.7	92.8	92.9	93.1	93.1	93.1	93.2	93.2
≥ 100	78.0	82.3	83.9	85.8	88.5	89.1	90.9	91.7	92.6	94.1	94.4	94.6	94.6	94.6	94.7	94.7
≥ 90	78.1	82.4	83.9	85.9	88.7	89.4	91.1	92.0	92.9	94.5	94.8	95.1	95.1	95.1	95.2	95.2
≥ 80	78.2	82.6	84.1	86.1	88.9	89.6	91.4	92.5	93.3	95.3	95.8	96.0	96.0	96.0	96.7	96.7
≥ 70	78.2	82.6	84.1	86.1	88.9	89.6	91.4	92.5	93.3	95.4	96.1	96.3	96.8	96.9	97.0	97.0
≥ 60	78.2	82.7	84.3	86.5	89.2	89.9	91.7	92.8	93.7	95.8	96.9	97.0	97.5	97.6	97.7	97.7
≥ 50	78.2	82.7	84.3	86.5	89.2	89.9	91.7	93.0	93.9	96.1	97.3	97.5	98.2	98.3	98.6	98.6
≥ 40	78.2	82.7	84.4	86.6	89.4	90.0	91.9	93.2	94.3	96.6	97.8	98.1	98.8	98.9	99.2	99.2
≥ 30	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.1	99.5	99.5
≥ 20	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.8	98.1	98.3	99.0	99.4	99.7	99.8
≥ 10	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.9	98.2	98.4	99.1	99.5	99.8	99.9
≥ 0	78.3	82.8	84.5	86.8	89.6	90.2	92.2	93.4	94.5	96.9	98.2	98.4	99.1	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AFB WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	43.1	44.1	44.1	44.3	44.4	44.4	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2 2000	57.9	52.0	52.2	52.4	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
2 1800	51.2	52.4	52.5	52.7	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2 1600	51.6	52.8	52.9	53.1	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2 1400	52.6	53.8	53.9	54.1	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2 1200	58.4	59.7	59.8	60.1	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
2 1000	67.3	68.6	68.8	69.1	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2 900	67.8	69.1	69.4	69.7	70.0	70.0	70.0	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2
2 800	72.6	74.0	74.2	74.7	75.2	75.2	75.4	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2 700	74.5	75.9	76.2	76.8	77.2	77.2	77.4	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2 600	75.8	77.5	77.8	78.7	79.1	79.1	79.4	79.5	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8
2 500	76.8	78.5	79.8	79.7	80.1	80.1	80.3	80.4	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2 450	77.1	78.9	79.5	80.4	81.0	81.0	81.2	81.3	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2 400	78.5	80.4	81.7	82.2	82.9	82.9	83.1	83.2	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2 350	79.6	81.7	82.8	84.3	85.2	85.2	85.4	85.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9
2 300	80.7	82.6	83.8	85.5	87.2	87.2	87.6	88.1	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7
2 250	81.7	82.6	84.2	86.1	88.1	88.5	89.4	89.9	90.2	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2 200	80.7	82.7	84.4	86.9	88.8	89.5	90.6	91.3	91.8	92.6	92.7	92.7	92.7	92.7	92.7	92.7
2 150	80.2	82.9	84.6	87.3	89.2	89.9	91.3	92.0	92.6	93.3	93.4	93.4	93.4	93.4	93.4	93.4
2 100	80.2	83.1	84.9	87.6	89.8	90.8	92.9	93.9	94.4	96.2	96.7	96.7	96.8	96.8	96.8	96.8
2 900	81.2	83.4	85.2	88.1	90.2	91.2	93.3	94.4	94.9	96.9	97.3	97.4	97.5	97.6	97.6	97.6
2 800	80.2	83.4	85.2	88.1	90.2	91.2	93.4	94.5	95.1	97.3	97.8	98.0	98.1	98.2	98.2	98.2
2 700	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.5	98.6	98.8	98.9	98.9	98.9
2 600	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.5	98.7	98.9	99.0	99.1	99.1
2 500	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.5	98.8	99.0	99.1	99.5	99.5
2 400	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.1	95.6	98.0	98.6	98.9	99.1	99.2	99.6	99.6
2 300	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0
2 200	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0
2 100	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0
2 000	80.2	83.4	85.2	88.3	90.6	91.6	93.9	95.2	95.8	98.2	98.8	99.2	99.5	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFS WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-93

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1970-1970

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 0	≥ 0.25	≥ 0.5	≥ 1.0	≥ 1.5	≥ 2.0	≥ 2.5	≥ 3.0	≥ 3.5	≥ 4.0	≥ 4.5	≥ 5.0	≥ 5.5	≥ 6.0	≥ 6.5	≥ 7.0
≥ 10000	42.2	42.6	43.7	43.2	43.4	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 9000	51.4	52.3	52.9	53.0	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 8000	52.2	53.0	53.5	53.8	54.0	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 7000	52.4	53.2	53.8	54.0	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 6000	54.2	55.1	55.6	55.8	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 5000	59.8	60.6	61.2	61.4	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4000	68.1	69.1	69.9	70.2	70.4	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 3000	69.9	71.1	71.8	72.2	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 2000	73.7	75.2	76.3	76.7	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1000	76.3	77.8	79.1	79.6	79.9	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 800	77.6	79.2	80.5	81.0	81.3	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 700	78.7	80.3	81.7	82.3	82.7	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 600	79.7	80.6	82.0	82.6	83.0	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 500	79.8	81.5	83.1	83.8	84.7	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 400	80.5	82.4	84.4	84.9	85.9	86.5	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 300	80.5	83.0	84.9	85.6	87.7	88.6	89.2	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 200	80.9	83.4	85.4	86.7	88.9	89.9	90.8	91.1	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6
≥ 100	80.9	83.5	85.5	86.9	89.5	90.6	91.5	92.0	92.2	92.6	92.9	92.9	92.9	92.9	92.9	92.9
≥ 80	81.9	83.5	85.5	86.9	89.5	90.6	91.5	92.2	92.3	92.8	93.1	93.1	93.1	93.1	93.1	93.1
≥ 70	81.1	84.0	85.9	87.5	90.2	91.5	92.4	93.3	93.8	94.3	94.6	94.6	94.6	94.6	94.6	94.6
≥ 60	81.4	84.4	86.3	88.1	91.9	92.3	93.1	94.2	94.6	95.3	95.8	95.8	95.8	95.8	95.8	95.8
≥ 50	81.4	84.5	86.5	88.3	91.1	92.6	93.4	94.6	95.1	96.7	96.6	96.6	96.7	96.7	96.7	96.7
≥ 40	81.4	84.6	86.6	88.5	91.4	92.9	93.8	94.9	95.4	96.3	97.0	97.0	97.1	97.1	97.1	97.1
≥ 30	81.4	84.6	86.6	88.6	91.5	93.7	93.9	95.1	95.6	96.8	97.5	97.5	97.6	97.6	97.6	97.8
≥ 20	81.4	84.6	86.6	88.7	91.6	93.2	94.2	95.5	96.7	97.5	98.3	98.3	98.4	98.4	98.4	98.6
≥ 10	81.5	84.8	86.8	88.9	91.8	93.4	94.5	95.9	96.5	98.1	98.9	98.9	99.0	99.0	99.0	99.4
≥ 8	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	99.9
≥ 6	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	100.0
≥ 4	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	100.0
≥ 2	81.5	84.8	86.8	88.9	91.8	93.4	94.5	96.2	96.8	98.6	99.5	99.5	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-2000
TIME

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0	
≥2000	46.5	47.5	47.7	48.2	48.7	48.3	48.7	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.4	48.4
≥1800	52.9	54.1	54.3	54.7	54.8	54.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9	54.9
≥1600	53.1	54.3	54.5	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.2	55.2
≥1400	53.3	54.5	54.7	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.4	55.4
≥1200	54.7	55.2	55.4	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0
≥1000	59.1	60.3	60.5	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3
≥900	68.7	70.2	70.4	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.2
≥800	69.8	71.5	71.7	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5
≥700	73.4	75.3	75.5	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3
≥600	76.7	78.5	78.8	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7
≥500	77.6	79.6	79.9	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
≥450	78.5	81.1	81.4	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.5	82.5
≥400	78.8	81.5	81.8	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9
≥350	81.4	83.7	84.0	84.7	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4
≥300	81.2	84.6	85.1	85.8	86.6	86.7	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5
≥250	81.7	86.7	86.6	87.4	88.7	89.0	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0
≥200	82.6	87.1	87.6	88.8	90.2	90.6	91.8	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5
≥150	82.9	87.7	88.4	89.6	91.0	91.4	92.7	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥100	82.9	87.8	88.6	89.8	91.2	91.6	92.9	93.2	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8
≥75	83.0	88.1	88.8	90.1	91.6	92.0	93.3	93.8	94.0	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6
≥50	83.0	88.2	89.2	90.5	92.2	92.8	94.2	94.7	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7
≥25	83.2	88.5	89.6	91.9	93.0	93.8	95.3	95.9	96.2	97.2	97.3	97.3	97.3	97.3	97.4	97.5	97.5
≥10	83.2	88.7	89.9	91.2	93.3	94.1	95.6	96.3	96.7	97.6	97.7	97.7	97.7	97.7	97.8	98.0	98.0
≥5	83.3	88.8	90.0	91.3	93.4	94.2	95.7	96.9	97.2	98.2	98.3	98.3	98.3	98.5	98.5	98.6	98.6
≥2	83.3	88.8	90.7	91.3	93.5	94.3	95.8	96.7	97.3	97.6	98.4	98.5	98.5	98.8	98.8	98.9	98.9
≥1	83.3	88.8	91.7	91.3	93.5	94.3	96.7	97.3	97.6	98.6	98.7	98.7	98.7	99.0	99.0	99.1	99.1
≥0.5	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.25	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.15	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.1	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.05	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.025	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.01	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9
≥0.005	83.3	88.9	90.2	91.5	93.9	94.6	96.3	97.6	98.1	99.0	99.4	99.4	99.4	99.8	99.8	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-97

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥.4
NO CEILING	46.5	47.2	47.6	48.1	48.2	48.2	48.5	48.5	48.5	48.6	48.6	48.6	48.7	48.7	48.7	48.7
≥ 2000	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 1800	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 1600	51.9	52.9	53.5	54.0	54.3	54.3	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 1400	52.4	53.3	54.0	54.4	54.7	54.7	55.1	55.1	55.1	55.2	55.2	55.2	55.3	55.3	55.3	55.3
≥ 1200	57.2	58.2	58.8	59.4	59.7	59.7	60.0	60.0	60.0	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 1000	65.8	67.1	67.8	68.4	68.7	68.7	69.0	69.0	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.2
≥ 900	66.8	68.1	68.8	69.4	69.7	69.8	70.1	70.1	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.3
≥ 800	71.8	73.4	74.2	74.7	75.1	75.2	75.5	75.5	75.5	75.6	75.6	75.6	75.7	75.7	75.7	75.7
≥ 700	74.7	75.8	76.6	77.1	77.4	77.5	77.8	77.8	77.8	78.0	78.0	78.0	78.1	78.1	78.1	78.1
≥ 600	74.9	76.8	77.7	78.3	78.6	78.7	79.0	79.0	79.0	79.1	79.1	79.1	79.2	79.2	79.2	79.2
≥ 500	76.0	77.8	78.8	79.4	79.7	79.8	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3
≥ 450	76.2	78.1	79.0	79.7	80.0	80.1	80.4	80.4	80.4	80.5	80.5	80.5	80.6	80.6	80.6	80.6
≥ 400	78.8	80.8	81.9	82.7	83.1	83.2	83.5	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8
≥ 350	79.5	82.0	83.4	84.4	85.4	85.5	86.2	86.2	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86.5
≥ 300	81.6	84.2	85.6	86.6	87.7	87.8	88.6	88.6	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
≥ 250	81.5	85.6	87.2	88.4	89.9	90.2	91.0	91.5	91.7	91.8	91.8	91.8	91.9	91.9	91.9	91.9
≥ 200	82.3	86.6	88.4	89.6	91.2	91.5	92.4	92.9	93.1	93.4	93.4	93.4	93.5	93.5	93.5	93.5
≥ 180	82.3	86.7	88.5	89.7	91.3	91.6	92.5	93.0	93.2	93.5	93.5	93.5	93.7	93.7	93.7	93.7
≥ 150	82.4	86.9	88.7	89.9	91.8	92.2	93.3	94.1	94.3	94.7	94.7	94.7	94.8	94.8	94.8	94.8
≥ 120	82.6	87.6	89.8	91.0	93.1	93.4	94.7	95.7	95.9	96.7	96.7	96.7	96.8	96.8	96.8	96.8
≥ 100	82.6	87.6	89.8	91.0	93.3	93.9	95.4	96.8	97.0	97.7	97.7	97.7	97.8	97.8	97.8	97.8
≥ 90	82.6	87.7	90.0	91.2	93.5	94.1	95.6	97.2	97.4	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥ 80	82.7	88.0	90.2	91.4	93.9	94.4	95.9	97.7	98.0	98.9	99.0	99.0	99.1	99.1	99.1	99.1
≥ 70	82.7	88.0	90.2	91.4	93.9	94.4	95.9	97.8	98.1	99.0	99.2	99.2	99.4	99.4	99.4	99.4
≥ 60	82.7	88.0	90.2	91.5	94.0	94.5	96.1	98.1	98.3	99.4	99.6	99.6	99.7	99.7	99.7	99.7
≥ 50	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 40	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 30	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8
≥ 20	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0
≥ 10	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0
≥ 0	82.7	88.0	90.2	91.5	94.1	94.6	96.2	98.2	98.4	99.5	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755 MALMSTROM AFB MT

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	45.2	46.0	46.3	46.6	46.8	46.9	47.7	47.0	47.0	47.0	47.1	47.1	47.1	47.1	47.2	47.2
≥ 20000	51.6	52.6	52.9	53.2	53.5	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.9	53.9
≥ 18000	51.8	52.8	53.2	53.4	53.8	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.1	54.1
≥ 16000	52.7	53.0	53.3	53.6	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2
≥ 14000	52.8	53.9	54.2	54.5	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.2
≥ 12000	56.9	58.0	58.3	58.6	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.4
≥ 10000	65.6	66.8	67.2	67.6	68.0	68.0	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.4	68.4
≥ 9000	66.5	67.8	68.2	68.6	69.0	69.1	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.5	69.5
≥ 8000	70.9	72.4	72.9	73.3	73.8	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.4
≥ 7000	72.8	74.3	74.9	75.3	75.8	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.4
≥ 6000	73.7	75.3	76.0	76.5	77.0	77.0	77.3	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.6
≥ 5000	75.1	76.9	77.6	78.1	78.6	78.7	79.0	79.0	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.3
≥ 4500	75.7	77.6	78.4	79.9	79.5	79.5	79.8	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.1	80.1
≥ 4000	77.6	79.8	80.7	81.3	82.0	82.2	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8
≥ 3500	78.5	81.2	82.3	83.1	84.0	84.2	84.8	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.2
≥ 3000	79.2	82.6	83.9	84.8	86.1	86.4	87.2	87.4	87.5	87.6	87.7	87.7	87.7	87.7	87.8	87.8
≥ 2500	79.9	83.6	85.0	86.2	87.8	88.3	89.2	89.6	89.7	89.9	90.0	90.0	90.0	90.0	90.1	90.2
≥ 2000	80.4	84.3	85.8	87.3	89.0	89.6	90.7	91.1	91.3	91.7	91.7	91.8	91.8	91.8	91.9	91.9
≥ 1800	80.5	84.4	86.0	87.5	89.3	89.9	90.9	91.4	91.6	92.0	92.1	92.1	92.1	92.1	92.2	92.2
≥ 1500	80.9	85.1	86.7	88.3	90.3	90.9	92.1	92.8	93.1	93.6	93.7	93.7	93.7	93.7	93.8	93.9
≥ 1200	81.1	85.4	87.2	88.8	91.0	91.7	93.0	93.8	94.2	94.9	95.0	95.0	95.1	95.1	95.1	95.2
≥ 1000	81.0	85.6	87.5	89.2	91.5	92.3	93.7	94.7	95.1	96.1	96.3	96.3	96.4	96.4	96.5	96.5
≥ 900	81.1	85.7	87.6	89.4	91.7	92.5	93.9	95.0	95.4	96.4	96.7	96.7	96.8	96.8	96.9	97.0
≥ 800	81.1	85.8	87.7	89.4	91.8	92.6	94.1	95.4	95.8	96.9	97.2	97.3	97.4	97.4	97.5	97.6
≥ 700	81.2	85.8	87.7	89.5	91.9	92.8	94.2	95.6	96.0	97.3	97.6	97.7	97.8	97.9	98.0	98.0
≥ 600	81.2	85.9	87.8	89.6	92.1	92.9	94.4	95.9	96.3	97.7	98.1	98.2	98.4	98.4	98.5	98.6
≥ 500	81.2	85.9	87.9	89.7	92.1	93.0	94.5	96.1	96.6	98.1	98.5	98.6	98.8	98.9	99.0	99.1
≥ 400	81.2	86.0	87.9	89.7	92.2	93.0	94.6	96.2	96.7	98.3	98.7	98.8	99.1	99.1	99.3	99.4
≥ 300	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.3	98.8	98.9	99.2	99.3	99.5	99.6
≥ 200	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.3	98.8	98.9	99.3	99.4	99.7	99.8
≥ 100	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.4	98.9	99.0	99.4	99.5	99.8	99.9
≥ 0	81.2	86.0	87.9	89.8	92.3	93.1	94.7	96.3	96.8	98.4	98.9	99.0	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1000-2200
HOURLY PERIOD

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0	≥ 0	
NO CEILING	48.6	50.2	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 2000	55.9	57.7	57.9	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
≥ 1800	56.0	57.8	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 1600	56.3	58.0	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 1400	56.6	58.4	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 1200	61.6	63.4	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.1	64.1
≥ 1000	69.5	70.8	71.0	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.7	71.7	71.7
≥ 900	77.2	72.0	72.2	72.3	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.9	72.9	72.9
≥ 800	73.5	75.3	75.5	75.7	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.2	76.2	76.2
≥ 700	74.1	76.1	76.4	76.5	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	77.1	77.1
≥ 600	75.4	77.4	77.7	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.4	78.4	78.4
≥ 500	76.4	78.6	78.8	79.0	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.6	79.6	79.6
≥ 450	77.0	79.2	79.4	79.6	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	80.1	80.1
≥ 400	78.9	81.3	81.7	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.4	82.4	82.4
≥ 350	79.6	82.4	83.1	83.2	83.5	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	84.0	84.0	84.0
≥ 300	80.4	83.7	84.5	84.8	85.2	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.8	85.8	85.8
≥ 250	81.2	84.9	86.2	86.5	87.0	87.4	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2
≥ 200	81.3	85.2	86.6	87.2	88.1	88.4	89.0	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.8	89.8	89.8
≥ 180	81.3	85.2	86.6	87.2	88.1	88.4	89.0	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.8	89.8	89.8
≥ 150	81.3	85.5	87.1	87.9	88.8	89.1	89.8	90.3	90.4	90.8	90.8	90.8	90.8	90.8	91.1	91.1	91.1
≥ 120	81.3	85.6	87.2	88.2	89.0	89.5	90.3	91.0	91.3	91.6	91.6	91.6	91.6	91.6	92.0	92.0	92.0
≥ 100	81.3	85.6	87.4	88.3	89.2	90.1	91.0	91.7	92.3	92.7	92.7	92.7	92.7	92.7	93.0	93.0	93.0
≥ 90	81.4	85.7	87.6	88.5	89.5	90.3	91.3	92.0	92.6	92.9	92.9	92.9	92.9	92.9	93.3	93.3	93.3
≥ 80	81.6	85.8	87.7	88.7	89.6	90.4	91.4	92.1	92.7	93.1	93.3	93.3	93.3	93.3	93.6	93.6	93.6
≥ 70	81.7	86.4	88.3	89.4	90.3	91.1	92.2	92.9	93.6	94.2	94.3	94.3	94.3	94.3	94.7	94.7	94.7
≥ 60	81.7	86.4	88.3	89.4	90.3	91.3	92.3	93.5	94.3	95.0	95.2	95.2	95.2	95.5	95.5	95.5	95.5
≥ 50	81.7	86.6	88.5	89.6	90.5	91.6	92.7	94.1	94.9	95.9	96.0	96.0	96.0	96.3	96.3	96.3	96.3
≥ 40	81.9	86.9	88.8	90.0	90.9	92.0	93.1	94.6	95.4	96.3	96.5	96.5	96.5	96.8	96.8	96.8	96.8
≥ 30	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	98.0	98.1	98.1	98.1
≥ 20	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	98.1	98.5	98.7	98.7
≥ 10	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	98.1	98.5	98.7	98.7
≥ 0	81.9	87.1	89.0	90.3	91.4	92.4	94.0	95.5	96.3	97.5	97.6	97.6	97.6	98.1	98.5	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

FER
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0320-2500
TIME PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
≥ 20000	46.2	47.0	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 18000	55.1	56.0	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 16000	55.3	56.3	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 14000	55.8	56.7	56.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000	56.3	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
≥ 10000	61.2	62.3	62.4	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
≥ 9000	67.4	68.7	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 8000	68.1	69.5	69.6	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 7000	71.8	72.6	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 6000	71.7	73.5	73.6	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 5000	72.9	74.7	74.8	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 4500	74.3	76.4	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 4000	74.9	77.2	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 3500	77.5	80.1	80.6	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
≥ 3000	78.5	81.6	82.4	82.5	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2500	79.7	83.3	84.9	85.1	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2000	80.9	84.5	86.5	87.1	87.8	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1800	81.6	85.3	87.5	87.9	88.8	89.1	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1600	81.7	85.5	87.6	88.1	88.9	89.2	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1400	82.3	86.3	88.4	88.9	89.8	90.3	90.9	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	82.3	86.5	88.8	89.5	90.5	91.1	91.7	92.3	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1000	82.5	86.9	89.2	90.0	91.4	92.0	92.8	93.9	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 900	82.9	87.2	89.6	90.3	91.7	92.3	93.1	94.2	94.3	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥ 800	83.0	87.4	89.7	90.4	91.8	92.4	93.3	94.4	94.6	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700	83.1	87.5	89.8	90.5	92.0	92.6	93.6	95.2	95.3	96.0	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	83.1	87.5	89.8	90.5	92.0	92.6	93.6	95.3	95.4	96.2	96.3	96.3	96.3	96.3	96.3	96.3
≥ 500	83.1	87.5	89.8	90.5	92.0	92.6	93.9	95.5	95.9	96.8	96.9	96.9	96.9	96.9	96.9	96.9
≥ 400	83.5	87.8	90.2	90.9	92.3	92.9	94.3	96.0	96.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	83.5	87.8	90.4	91.1	92.6	93.1	94.7	96.3	96.7	97.6	97.8	97.8	97.8	97.8	97.8	97.8
≥ 200	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	96.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1
≥ 100	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	97.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3
≥ 0	83.5	87.8	90.4	91.3	92.7	93.3	94.9	96.6	97.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3

TOTAL NUMBER OF OBSERVATIONS 886

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

GLOPAL CLIMATOLOGY BRANCH
 USAF/ETAC
 AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

74-83

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

670-0870
NO. OF HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.75	≥.7	≥.6	≥.5
NO CEILING	41.1	41.8	42.1	42.1	42.1	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.4
≥ 20000	48.0	48.7	48.9	48.9	48.9	48.9	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.3
≥ 18000	48.2	48.9	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.5
≥ 16000	48.2	48.9	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.5
≥ 14000	49.3	50.0	50.2	50.2	50.2	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.6
≥ 12000	55.0	55.7	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.5
≥ 10000	66.2	67.1	67.4	67.5	67.5	67.5	67.5	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	68.1
≥ 9000	68.2	69.1	69.4	69.5	69.5	69.5	69.5	69.6	69.6	69.9	69.9	69.9	69.9	69.9	69.9	70.1
≥ 8000	73.0	74.5	74.8	74.9	74.9	74.9	74.9	75.1	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.5
≥ 7000	74.5	76.1	76.5	76.6	76.6	76.6	76.6	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.2
≥ 6000	75.1	76.7	77.1	77.2	77.2	77.2	77.2	77.3	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.8
≥ 5000	76.7	78.5	78.8	79.0	79.0	79.0	79.0	79.1	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.6
≥ 4500	77.3	79.1	79.4	79.7	79.7	79.7	79.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.3
≥ 4000	78.6	80.6	81.1	81.7	81.7	81.7	81.7	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.3
≥ 3500	79.1	81.4	82.4	83.0	83.0	83.0	83.0	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.6
≥ 3000	79.9	82.4	83.5	84.0	84.0	84.0	84.0	84.2	84.4	84.4	84.6	84.6	84.6	84.6	84.6	84.9
≥ 2500	81.2	83.7	84.9	85.6	85.7	85.8	85.9	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.8
≥ 2000	81.9	84.5	85.9	86.6	86.8	87.0	87.2	87.6	87.7	88.1	88.1	88.1	88.2	88.2	88.2	88.4
≥ 1800	82.0	84.8	86.2	86.9	87.1	87.4	87.6	87.9	88.2	88.5	88.5	88.5	88.5	88.7	88.7	88.9
≥ 1500	82.3	85.2	87.0	87.8	88.3	88.7	89.2	89.8	90.1	90.5	90.5	90.5	90.7	90.7	90.7	90.9
≥ 1200	82.9	85.8	87.7	88.9	89.5	90.0	91.0	91.6	92.0	92.6	92.6	92.6	92.6	92.8	92.8	93.0
≥ 1000	83.6	86.5	88.7	90.0	90.9	91.5	92.7	93.4	93.9	94.6	94.7	94.8	95.0	95.0	95.0	95.4
≥ 900	83.7	86.8	88.9	90.2	91.3	91.8	93.0	93.7	94.2	94.9	95.0	95.2	95.4	95.4	95.7	95.7
≥ 800	83.7	86.8	88.9	90.3	91.5	92.1	93.3	94.0	94.4	95.2	95.4	95.5	95.7	95.7	96.1	96.1
≥ 700	83.7	86.8	88.9	90.3	91.6	92.2	93.5	94.2	94.7	95.4	95.7	95.9	96.1	96.1	96.5	96.5
≥ 600	83.7	86.8	89.1	90.5	91.8	92.4	93.9	94.6	95.2	95.9	96.2	96.3	96.6	96.6	96.9	96.9
≥ 500	83.7	87.0	89.4	90.9	92.3	92.9	94.3	95.0	95.6	96.3	96.8	96.9	97.3	97.3	97.6	97.6
≥ 400	83.8	87.4	89.7	91.3	92.8	93.4	94.8	95.6	96.2	96.9	97.4	97.5	97.9	97.9	98.2	98.2
≥ 300	83.8	87.4	89.7	91.3	92.9	93.5	94.9	95.7	96.3	97.0	97.6	97.8	98.2	98.2	98.6	98.6
≥ 200	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.7	97.4	98.0	98.1	98.8	98.8	99.2	99.2
≥ 100	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.8	97.5	98.1	98.2	99.1	99.1	99.4	100.0
≥ 0	83.8	87.4	89.7	91.4	93.1	93.7	95.2	96.1	96.8	97.5	98.1	98.2	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-1100
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥0
NO CEILING	47.2	40.9	41.1	41.5	41.6	41.7	41.7	41.8	42.0	42.1	42.1	42.1	42.1	42.1	42.7	42.7
≥ 20000	45.6	46.5	46.7	47.3	47.5	47.6	47.6	47.8	47.9	48.2	48.2	48.0	48.0	48.0	48.6	48.6
≥ 18000	45.9	46.7	46.9	47.5	47.8	47.9	47.9	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.8	48.8
≥ 16000	45.9	46.7	46.9	47.5	47.8	47.9	47.9	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.8	48.8
≥ 14000	49.2	50.0	50.2	50.8	51.1	51.2	51.2	51.3	51.4	51.5	51.5	51.5	51.5	51.5	52.1	52.1
≥ 12000	57.7	57.8	58.7	58.6	58.9	59.7	59.7	59.9	59.2	59.3	59.3	59.3	59.3	59.3	59.9	59.9
≥ 10000	66.4	67.3	67.5	68.1	68.3	68.4	68.4	68.6	68.7	68.8	68.8	68.8	68.8	68.8	69.4	69.4
≥ 9000	68.9	69.7	70.0	70.6	70.8	70.9	70.9	71.0	71.2	71.3	71.3	71.3	71.3	71.3	71.9	71.9
≥ 8000	73.4	74.2	74.5	75.3	75.7	75.8	75.9	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.8	76.8
≥ 7000	74.5	75.8	76.7	77.1	77.4	77.5	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.6	78.6
≥ 6000	75.4	76.7	77.7	78.0	78.4	78.5	78.6	78.7	78.8	79.0	79.0	79.0	79.0	79.0	79.6	79.6
≥ 5000	76.6	78.5	78.8	80.0	80.5	80.6	80.9	81.0	81.1	81.3	81.3	81.3	81.3	81.3	81.9	81.9
≥ 4500	77.3	79.3	79.7	81.0	81.4	81.6	81.8	81.9	82.7	82.3	82.3	82.3	82.3	82.3	82.9	82.9
≥ 4000	78.8	81.1	81.4	83.0	83.9	84.2	84.5	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.6	85.6
≥ 3500	79.3	81.8	82.2	83.9	84.9	85.1	85.5	85.6	85.7	85.9	85.9	85.9	85.9	85.9	86.6	86.6
≥ 3000	80.7	82.7	83.1	84.9	86.1	86.5	87.7	87.2	87.5	87.8	87.8	87.8	87.8	87.8	88.5	88.5
≥ 2500	80.6	83.6	84.7	86.1	87.7	88.2	88.9	89.1	89.4	89.7	89.7	89.8	89.8	89.8	90.5	90.5
≥ 2000	81.0	84.3	85.0	87.1	89.1	89.6	90.7	90.7	91.0	91.4	91.4	91.5	91.5	91.5	92.2	92.2
≥ 1800	81.1	84.4	85.1	87.2	89.2	89.7	90.5	90.8	91.1	91.5	91.5	91.6	91.6	91.6	92.3	92.3
≥ 1500	81.2	84.5	85.5	87.8	90.0	90.5	91.5	92.1	92.4	92.8	92.8	92.9	92.9	92.9	93.6	93.6
≥ 1200	81.4	84.8	85.7	88.1	90.3	91.0	92.1	92.7	93.0	93.4	93.4	93.5	93.5	93.5	94.2	94.2
≥ 1000	81.6	84.9	85.8	88.2	90.5	91.3	92.3	93.0	93.4	94.2	94.3	94.4	94.4	94.6	95.3	95.3
≥ 900	81.6	85.0	85.9	88.3	90.7	91.4	92.4	93.1	93.5	94.3	94.4	94.6	94.6	94.7	95.4	95.4
≥ 800	81.6	85.0	85.9	88.3	90.7	91.4	92.4	93.1	93.5	94.3	94.4	94.6	94.6	94.7	95.4	95.4
≥ 700	81.6	85.0	85.9	88.3	91.0	91.7	92.9	93.7	94.1	95.0	95.3	95.5	95.5	95.9	96.7	96.7
≥ 600	81.7	85.1	86.1	88.4	91.1	92.1	93.3	94.1	94.4	95.7	96.1	96.3	96.5	96.8	97.6	97.6
≥ 500	81.8	85.5	86.5	88.9	91.6	92.6	93.7	94.6	94.9	96.3	96.7	96.9	97.2	97.5	98.3	98.3
≥ 400	81.9	85.7	86.8	89.1	91.8	92.9	94.1	95.0	95.4	96.9	97.3	97.5	97.8	98.1	98.9	98.9
≥ 300	81.9	85.7	86.8	89.1	91.8	92.9	94.3	95.3	95.6	97.3	97.6	97.9	98.1	98.5	99.3	99.3
≥ 200	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	99.5
≥ 100	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	100.0
≥ 0	81.9	85.7	86.8	89.1	91.8	93.0	94.4	95.4	95.7	97.4	97.8	98.0	98.2	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1220-1470
DATE

CEILING FEET	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1/2	≥1/4	≥0	
NO CEILING	47.2	41.0	41.5	42.0	42.0	42.1	42.2	42.2	42.4	42.4	42.4	42.4	42.4	42.6	42.6	42.6	42.8
≥20000	47.9	48.9	49.5	50.1	50.1	50.2	50.4	50.4	50.6	50.7	50.7	50.7	50.7	50.8	50.8	50.8	51.1
≥18000	48.5	49.5	50.1	50.7	50.7	50.8	50.9	50.9	51.2	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.7
≥16000	48.6	49.6	50.2	50.8	50.8	50.9	51.1	51.1	51.3	51.4	51.4	51.4	51.4	51.5	51.5	51.5	51.8
≥14000	50.6	51.7	52.2	52.8	52.8	53.0	53.1	53.1	53.3	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.8
≥12000	58.6	59.9	60.6	61.2	61.2	61.3	61.5	61.5	61.7	61.8	61.8	61.8	61.8	61.9	61.9	61.9	62.2
≥10000	68.4	70.0	70.8	71.4	71.4	71.5	71.6	71.6	71.9	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.3
≥9000	70.0	71.5	72.3	72.9	73.0	73.2	73.3	73.3	73.5	73.6	73.6	73.6	73.6	73.8	73.8	73.8	74.0
≥8000	75.7	77.5	78.5	79.2	79.3	79.4	79.6	79.6	79.8	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.3
≥7000	76.9	78.8	79.9	80.7	80.9	81.1	81.2	81.2	81.4	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.9
≥6000	77.5	79.6	80.6	81.4	81.6	81.8	81.9	81.9	82.2	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.6
≥5000	78.6	80.6	81.8	82.7	83.2	83.6	83.8	83.9	84.2	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.6
≥4500	79.2	81.2	82.4	83.3	83.8	84.2	84.4	84.5	84.8	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.2
≥4000	80.7	83.0	84.2	85.1	85.7	86.1	86.4	86.5	86.8	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.2
≥3500	81.4	83.9	85.1	86.2	86.9	87.2	87.6	87.7	87.9	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.4
≥3000	82.3	85.0	86.3	87.5	88.4	88.8	89.1	89.2	89.5	89.6	89.6	89.6	89.6	89.7	89.7	89.7	90.0
≥2500	82.4	85.5	86.9	88.1	89.1	89.6	90.1	90.2	90.4	90.5	90.7	90.7	90.7	90.8	90.8	90.8	91.0
≥2000	83.0	86.2	87.8	89.0	90.5	91.0	91.4	92.2	92.6	92.7	92.8	92.8	92.8	92.9	92.9	92.9	93.1
≥1800	83.1	86.3	87.9	89.2	90.8	91.3	92.1	92.4	92.8	92.9	93.0	93.0	93.0	93.1	93.1	93.1	93.4
≥1500	83.2	86.4	88.1	89.6	91.1	91.6	92.8	93.6	94.0	94.4	94.6	94.6	94.6	94.7	94.7	94.7	94.9
≥1200	83.5	86.6	88.3	89.8	91.4	91.8	93.0	93.9	94.2	94.7	94.8	94.8	94.8	94.9	94.9	94.9	95.2
≥1000	83.8	87.1	88.9	90.4	92.0	92.4	93.6	94.7	95.2	95.6	95.7	95.9	95.9	96.0	96.0	96.0	96.2
≥900	84.0	87.7	89.5	91.0	92.6	93.0	94.4	95.5	96.1	96.8	96.9	97.0	97.0	97.2	97.2	97.2	97.4
≥800	84.0	87.7	89.5	91.0	92.6	93.0	94.4	95.5	96.2	97.0	97.2	97.3	97.3	97.6	97.6	97.6	97.9
≥700	84.4	88.1	89.8	91.4	92.9	93.4	94.8	95.9	96.6	97.5	97.6	97.8	97.8	98.2	98.2	98.2	98.5
≥600	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.1	98.2	98.5	98.5	98.9	98.9	98.9	99.2
≥500	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.1	98.2	98.5	98.5	98.9	98.9	98.9	99.5
≥400	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.3	98.6	98.6	99.1	99.1	99.1	99.5
≥300	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	98.7	99.3	99.3	99.3	99.8
≥200	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	98.7	99.3	99.3	99.3	99.9
≥100	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	98.7	99.3	99.3	99.3	100.0
≥0	84.4	88.4	90.2	91.7	93.3	93.7	95.2	96.3	97.2	98.2	98.5	98.7	98.7	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 896

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.3	≥0.2	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	43.3	44.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 20000	51.4	52.5	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 18000	52.1	53.2	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 6000	52.5	53.5	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000	55.1	56.1	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 12000	67.5	61.9	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
≥ 10000	68.3	70.4	70.7	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
≥ 9000	69.7	71.9	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	72.2
≥ 8000	74.7	77.3	77.5	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
≥ 7000	76.1	78.7	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	79.2
≥ 6000	77.7	80.3	80.5	80.7	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 5000	87.0	82.6	82.9	83.1	83.5	83.5	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500	80.5	83.7	83.9	84.2	84.5	84.5	84.6	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4000	82.0	85.3	85.8	86.4	86.8	86.8	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500	83.2	86.6	87.2	87.8	88.2	88.2	88.4	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000	84.3	87.7	88.3	88.9	89.4	89.5	89.9	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	85.2	89.1	90.0	90.7	91.3	91.5	91.8	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000	85.7	89.8	90.9	91.8	92.6	92.8	93.1	93.7	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1800	85.8	90.0	90.9	92.0	92.8	93.0	93.4	94.0	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	85.9	90.3	91.3	92.4	93.4	93.7	94.6	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1200	86.3	90.7	91.7	92.9	93.9	94.2	95.0	95.7	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	86.5	90.9	92.1	93.3	94.3	94.8	95.6	96.3	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	86.6	91.3	92.4	93.6	94.7	95.2	96.0	96.7	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	86.6	91.4	92.6	93.7	94.8	95.3	96.2	96.9	97.2	97.6	97.6	97.9	97.9	97.9	97.9	97.9
≥ 700	86.8	91.5	92.8	94.0	95.0	95.5	96.5	97.2	97.4	97.9	97.9	98.1	98.1	98.1	98.1	98.1
≥ 600	86.8	91.5	92.9	94.1	95.2	95.6	96.6	97.4	97.6	98.2	98.2	98.5	98.5	98.5	98.5	98.5
≥ 500	86.8	91.5	93.1	94.3	95.4	95.9	96.8	97.6	97.9	98.5	98.5	99.7	98.8	98.8	98.8	98.8
≥ 400	86.9	91.6	93.3	94.4	95.5	96.7	96.9	97.8	98.0	98.6	98.6	98.9	99.1	99.1	99.1	99.1
≥ 300	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.8	99.2	99.3	99.3	99.3	99.3
≥ 200	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.8	99.3	99.4	99.4	99.4	99.4
≥ 100	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.8	99.3	99.4	99.4	99.4	99.4
≥ 0	86.9	91.6	93.3	94.4	95.6	96.1	97.0	97.9	98.1	98.8	98.8	99.3	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 886

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-2000
YEARS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1.3	≥1.2	≥1.1	≥1.0	≥0.9	≥0.8	≥0.7
NO CEILING	49.2	50.4	50.5	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 20000	53.5	54.7	55.7	55.1	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 18000	54.4	55.6	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 16000	54.4	55.6	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000	55.7	56.9	57.1	57.2	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	61.8	61.9	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000	69.4	71.9	71.6	72.0	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 9000	71.0	72.8	73.6	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	74.9	76.7	77.5	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 7000	75.9	77.7	78.5	78.8	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 6000	77.1	78.8	79.7	80.0	80.1	80.1	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 5000	78.4	80.4	81.2	81.6	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500	79.6	81.7	82.5	82.9	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000	80.9	83.2	84.0	84.4	84.9	84.9	84.9	84.9	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3500	82.2	85.1	86.3	86.8	87.2	87.2	87.2	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000	83.3	86.5	87.8	88.3	88.8	88.8	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2500	84.3	88.3	89.6	90.1	91.0	91.0	91.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2000	84.5	88.7	90.0	90.5	92.1	92.1	92.3	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	84.5	88.8	90.2	90.9	92.4	92.4	92.9	93.4	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1500	84.5	88.8	90.3	91.1	92.7	92.7	93.5	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1000	84.6	88.9	90.7	91.5	93.0	93.0	94.2	94.8	95.3	95.5	95.5	95.5	95.5	95.5	95.6	95.6
≥ 900	84.9	89.1	90.9	91.7	93.3	93.3	94.4	95.0	95.5	95.7	95.7	95.7	95.7	95.7	95.9	95.9
≥ 800	85.0	89.2	91.0	91.8	93.4	93.4	94.6	95.3	95.7	96.2	96.2	96.3	96.3	96.3	96.5	96.5
≥ 700	85.2	89.5	91.3	92.1	93.6	93.6	94.8	95.6	96.1	96.6	96.6	96.7	96.7	96.7	96.8	96.8
≥ 600	85.2	89.7	91.5	92.3	93.9	94.0	95.2	96.0	96.5	96.9	96.9	97.0	97.0	97.0	97.2	97.2
≥ 500	85.2	89.7	91.5	92.3	94.1	94.2	95.4	96.2	96.7	97.2	97.3	97.4	97.4	97.4	97.5	97.5
≥ 400	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥ 300	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.3	98.5	98.8
≥ 200	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.5	98.7	99.3
≥ 100	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.5	98.8	99.9
≥ 0	85.5	90.0	91.7	92.6	94.7	94.8	96.1	96.9	97.4	98.1	98.2	98.3	98.3	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755 MALMSTROM AFB MT

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2120-2320
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	48.2	48.8	49.3	49.4	49.4	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.6	49.6	49.8	49.8
≥ 20000	55.1	56.3	56.7	56.9	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.1	57.1	57.2	57.2
≥ 18000	55.2	56.4	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.2	57.2	57.3	57.3
≥ 16000	55.4	56.6	57.1	57.2	57.2	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.4	57.4	57.6	57.6
≥ 14000	56.4	57.6	58.0	58.2	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.4	58.4	58.5	58.5
≥ 12000	61.2	62.4	62.9	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.2	63.2	63.4	63.4
≥ 10000	69.6	70.8	71.3	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.6	71.6	71.7	71.7
≥ 9500	71.0	72.2	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9	73.0	73.2
≥ 8000	72.2	73.5	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.5	74.5
≥ 7000	73.4	74.7	75.2	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.5	75.5	75.7	75.7
≥ 6000	74.9	76.2	76.7	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.1	77.1	77.2	77.2
≥ 5000	76.1	77.9	78.5	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.8	78.8	79.0	79.0
≥ 4500	77.7	79.6	80.1	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.9	80.9	81.0	81.0
≥ 4000	79.3	81.3	82.2	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.9	82.9	83.0	83.0
≥ 3500	79.9	82.9	83.8	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.5	84.6	84.6	84.6	84.8	84.9
≥ 3000	81.6	84.2	85.1	85.8	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86.6	86.8
≥ 2500	81.3	84.9	86.1	86.8	87.0	87.2	87.2	87.2	87.4	87.4	87.4	87.6	87.6	87.6	87.7	87.8
≥ 2000	81.6	85.2	86.5	87.2	87.6	88.1	88.3	88.5	88.7	89.0	89.0	89.0	89.1	89.1	89.2	89.2
≥ 1800	81.7	85.3	86.6	87.4	87.7	88.2	88.4	88.7	88.8	89.1	89.1	89.1	89.2	89.2	89.4	89.4
≥ 1500	82.1	85.9	87.2	88.1	88.5	89.0	89.2	89.7	89.8	90.9	90.9	90.9	91.0	91.0	91.1	91.1
≥ 1200	82.0	86.1	87.4	88.2	88.7	89.1	89.6	90.4	90.5	91.6	91.6	91.6	91.7	91.7	91.8	91.8
≥ 1000	82.2	86.4	87.7	88.7	89.1	89.7	91.8	91.7	91.8	92.9	93.7	93.0	93.1	93.1	93.3	93.3
≥ 900	82.3	86.8	88.3	89.2	89.7	91.3	91.4	92.3	92.4	93.6	93.9	93.9	94.1	94.1	94.2	94.2
≥ 800	82.5	87.1	88.7	89.7	90.5	91.1	92.6	93.5	93.6	94.9	95.2	95.2	95.4	95.4	95.5	95.5
≥ 700	82.6	87.4	88.9	90.0	90.8	91.6	93.0	94.0	94.1	95.4	95.6	95.6	96.0	96.0	96.1	96.1
≥ 600	82.6	87.4	89.7	90.1	91.1	92.7	93.5	94.7	94.8	96.3	96.6	96.6	96.9	96.9	97.0	97.0
≥ 500	82.6	87.5	89.1	91.2	91.3	92.1	93.6	94.9	95.2	96.7	96.9	96.9	97.3	97.3	97.4	97.4
≥ 400	82.6	87.6	89.2	90.3	91.6	92.4	94.7	95.3	95.5	97.0	97.3	97.3	97.6	97.6	97.8	98.0
≥ 300	82.6	87.6	89.2	90.3	91.7	92.6	94.2	95.5	95.7	97.3	97.5	97.5	97.9	97.9	98.0	98.2
≥ 200	82.6	87.6	89.2	90.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	99.1
≥ 100	82.6	87.6	89.2	91.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	99.3
≥ 0	82.6	87.6	89.2	90.3	91.7	92.6	94.3	95.6	96.1	97.8	98.0	98.0	98.7	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	
NO CEILING	44.6	45.6	45.8	46.0	46.0	46.1	46.1	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.3	46.4	46.5
≥ 2000	51.6	52.7	53.7	53.2	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.6	53.7
≥ 1800	52.0	53.0	53.3	53.5	53.6	53.6	53.6	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.9	54.0	54.1
≥ 1600	52.1	53.2	53.5	53.7	53.8	53.8	53.8	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.1	54.2	54.2
≥ 1400	53.6	54.7	55.0	55.2	55.3	55.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.6	55.7	55.7
≥ 1200	59.5	60.7	61.7	61.2	61.3	61.3	61.3	61.3	61.4	61.5	61.5	61.5	61.5	61.5	61.6	61.7	61.7
≥ 1000	68.1	69.5	69.9	70.1	70.2	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.5	70.5	70.6	70.7	70.7
≥ 800	69.7	71.1	71.5	71.7	71.9	71.9	71.9	71.9	72.0	72.1	72.1	72.1	72.1	72.1	72.2	72.3	72.4
≥ 600	73.5	75.2	75.6	75.9	76.0	76.1	76.1	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.4	76.5	76.6
≥ 400	74.6	76.4	76.9	77.2	77.3	77.4	77.4	77.5	77.5	77.6	77.6	77.6	77.6	77.7	77.7	77.9	77.9
≥ 200	75.8	77.6	78.0	78.4	78.5	78.5	78.6	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.9	79.0	79.0
≥ 100	77.1	79.2	79.7	80.1	80.3	80.4	80.5	80.5	80.6	80.7	80.7	80.7	80.7	80.8	80.8	80.9	81.0
≥ 50	77.9	80.1	80.6	81.1	81.3	81.4	81.5	81.5	81.6	81.7	81.7	81.7	81.8	81.8	81.9	82.0	82.0
≥ 25	79.6	82.0	82.6	83.2	83.6	83.6	83.7	83.8	83.9	84.0	84.0	84.0	84.0	84.1	84.2	84.3	84.3
≥ 15	80.4	83.2	84.1	84.7	85.1	85.2	85.3	85.4	85.5	85.6	85.6	85.6	85.7	85.7	85.9	85.9	85.9
≥ 10	81.3	84.4	85.4	86.2	86.7	86.9	87.1	87.2	87.3	87.4	87.4	87.4	87.5	87.5	87.7	87.7	87.7
≥ 5	82.1	85.5	86.4	87.6	88.3	88.6	88.9	89.0	89.1	89.3	89.3	89.3	89.4	89.4	89.6	89.6	89.6
≥ 2	82.6	86.2	87.5	88.4	89.4	89.8	90.2	90.5	90.7	90.9	90.9	91.0	91.0	91.0	91.2	91.2	91.2
≥ 1	82.7	86.3	87.6	88.6	89.6	89.9	90.4	90.7	90.9	91.1	91.1	91.1	91.2	91.2	91.4	91.4	91.4
≥ 0.5	82.8	86.6	88.1	89.2	90.3	90.7	91.4	92.0	92.7	92.5	92.6	92.6	92.7	92.7	92.9	92.9	92.9
≥ 0.25	83.0	86.8	88.4	89.6	90.7	91.2	92.0	92.7	93.0	93.4	93.4	93.5	93.6	93.6	93.7	93.8	93.8
≥ 0.1	83.3	87.1	88.8	90.0	91.3	91.8	92.9	93.7	94.0	94.6	94.7	94.7	94.8	94.8	95.1	95.1	95.1
≥ 0.05	83.4	87.4	87.1	90.4	91.7	92.2	93.3	94.1	94.4	95.1	95.1	95.2	95.3	95.3	95.5	95.6	95.6
≥ 0.025	83.5	87.5	89.2	90.5	91.9	92.4	93.5	94.4	94.7	95.4	95.6	95.7	95.8	95.8	96.0	96.1	96.1
≥ 0.01	83.6	87.8	89.5	90.7	92.2	92.7	93.9	94.8	95.2	96.0	96.1	96.2	96.4	96.5	96.7	96.7	96.7
≥ 0.005	83.6	87.8	89.6	90.9	92.3	93.0	94.2	95.2	95.7	96.6	96.7	96.8	97.0	97.1	97.3	97.3	97.3
≥ 0.0025	83.7	88.0	89.8	91.1	92.6	93.2	94.4	95.5	96.0	97.0	97.2	97.3	97.5	97.6	97.8	97.9	97.9
≥ 0.001	83.8	88.2	90.0	91.3	92.9	93.5	94.8	95.9	96.4	97.4	97.6	97.8	98.0	98.1	98.3	98.4	98.4
≥ 0.0005	83.8	88.2	90.0	91.4	93.0	93.6	95.1	96.2	96.7	97.7	98.0	98.1	98.4	98.5	98.7	98.8	98.8
≥ 0.00025	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.1	98.3	98.7	98.8	99.1	99.3	99.3
≥ 0.0001	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.2	98.3	98.8	98.8	99.2	99.8	99.8
≥ 0.00005	83.8	88.2	90.0	91.4	93.0	93.7	95.1	96.3	96.8	97.9	98.2	98.3	98.8	98.8	99.2	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6768

USAF ETAC FORM 1004 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLCRAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥2000	48.1	48.8	48.9	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥1800	53.2	54.1	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥1600	53.4	54.3	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥1400	54.2	55.1	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥1200	57.8	58.8	59.0	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
≥1000	65.7	66.7	66.9	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥900	66.6	67.5	67.7	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥800	70.2	71.5	71.7	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
≥700	71.4	72.7	72.9	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥600	71.8	73.1	73.3	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
≥500	73.3	74.9	75.3	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
≥450	74.7	76.5	76.8	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥400	78.4	80.2	80.6	81.0	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥350	79.4	81.9	82.5	82.8	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥300	81.3	83.0	83.9	84.2	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥250	81.2	84.7	85.1	85.5	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥200	81.8	84.7	86.0	86.6	87.3	87.5	87.7	88.1	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5
≥180	82.7	84.9	86.7	86.8	87.6	87.8	88.1	88.4	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8
≥150	82.8	85.8	87.4	88.0	88.9	89.2	89.7	90.0	90.2	90.4	90.6	90.6	90.6	90.6	90.6	90.6
≥120	82.9	85.9	87.7	88.5	89.9	90.2	91.7	91.5	91.7	92.0	92.3	92.3	92.3	92.3	92.3	92.3
≥100	83.0	86.5	88.4	89.4	91.1	91.6	92.9	93.9	94.1	94.5	94.7	94.7	94.7	94.7	94.7	94.7
≥90	83.7	86.6	88.5	89.5	91.3	91.8	93.1	94.5	94.7	95.3	95.5	95.5	95.5	95.6	95.6	95.6
≥80	83.7	86.8	88.7	89.8	91.7	92.3	93.5	95.1	95.3	95.8	96.2	96.2	96.2	96.5	96.5	96.5
≥70	83.7	87.1	89.7	90.1	92.2	92.7	94.7	95.6	95.8	96.6	97.1	97.1	97.1	97.3	97.3	97.3
≥60	83.1	87.4	89.4	90.4	92.6	93.1	94.5	96.3	96.6	97.4	98.0	98.0	98.0	98.2	98.3	98.3
≥50	83.3	87.7	89.7	90.8	92.9	93.4	94.8	96.7	96.9	97.7	98.3	98.3	98.3	98.5	98.6	98.6
≥40	83.4	88.0	89.9	91.0	93.1	93.7	95.2	97.0	97.2	98.1	98.6	98.6	98.6	98.8	98.9	98.9
≥30	83.5	88.1	90.0	91.2	93.3	93.9	95.4	97.2	97.4	98.3	98.8	98.8	98.8	99.0	99.1	99.2
≥20	83.5	88.1	91.0	91.2	93.4	94.0	95.6	97.5	97.7	98.6	99.1	99.1	99.1	99.4	99.5	99.9
≥10	83.5	88.1	91.0	91.2	93.4	94.0	95.6	97.5	97.7	98.6	99.1	99.1	99.2	99.5	99.6	100.0
≥0	83.5	88.1	91.0	91.2	93.4	94.0	95.6	97.5	97.7	98.6	99.1	99.1	99.2	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 432

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

MAC

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

330-7507

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	46.6	47.7	47.8	47.8	48.1	48.1	48.2	48.2	48.2	48.4	48.4	48.4	48.5	48.5	48.5	48.5
2 2000	51.9	53.2	53.3	53.3	53.5	53.5	53.7	53.7	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.1
2 1800	51.9	53.2	53.3	53.3	53.5	53.5	53.7	53.7	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.1
2 1600	52.3	53.5	53.7	53.7	53.9	53.9	54.0	54.0	54.0	54.2	54.2	54.2	54.3	54.3	54.3	54.4
2 1400	53.0	54.3	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.9	54.9	54.9	55.1	55.1	55.1	55.2
2 1200	57.3	58.7	58.8	58.8	59.0	59.0	59.1	59.1	59.1	59.4	59.4	59.4	59.5	59.5	59.5	59.6
2 1000	64.3	65.7	65.8	66.0	66.2	66.2	66.3	66.3	66.3	66.6	66.6	66.6	66.7	66.7	66.7	66.8
2 900	65.4	66.8	66.9	67.1	67.3	67.3	67.4	67.4	67.4	67.6	67.6	67.6	67.7	67.7	67.7	67.8
2 800	67.3	69.1	69.2	69.6	69.8	69.8	69.9	69.9	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.3
2 700	68.0	69.8	69.9	70.2	70.4	70.4	70.5	70.5	70.5	70.8	70.8	70.8	70.9	70.9	70.9	71.0
2 600	69.0	70.9	71.0	71.3	71.5	71.5	71.6	71.6	71.6	71.8	71.8	71.8	71.9	71.9	71.9	72.0
2 500	71.0	72.8	73.0	73.3	73.5	73.5	73.7	73.7	73.7	73.9	73.9	73.9	74.0	74.0	74.0	74.1
2 450	72.0	74.0	74.3	74.6	74.8	74.8	74.9	74.9	74.9	75.2	75.2	75.2	75.3	75.3	75.3	75.4
2 400	74.9	77.2	77.8	78.2	78.5	78.5	78.6	78.6	78.6	78.8	78.8	78.8	78.9	78.9	78.9	79.0
2 350	75.7	78.7	79.4	79.8	80.4	80.4	80.5	80.5	80.5	80.8	80.8	80.8	80.9	80.9	80.9	81.0
2 300	76.5	79.7	80.9	81.5	82.5	82.5	82.6	82.6	82.6	82.8	82.8	82.8	83.0	83.0	83.0	83.1
2 250	77.2	80.8	81.9	82.7	83.7	83.7	83.8	83.9	83.9	84.1	84.1	84.1	84.3	84.3	84.3	84.4
2 200	77.7	81.5	82.9	83.7	84.6	84.6	84.7	84.9	84.9	85.2	85.2	85.2	85.4	85.4	85.4	85.5
2 180	78.0	81.7	83.2	84.0	85.1	85.1	85.2	85.4	85.4	85.6	85.6	85.6	85.8	85.8	85.8	85.9
2 160	79.0	82.9	84.4	85.3	86.6	86.6	86.9	87.1	87.3	87.5	87.5	87.5	87.7	87.7	87.7	87.8
2 140	79.2	83.1	84.7	86.0	87.8	87.8	88.3	88.8	89.0	89.2	89.2	89.2	89.5	89.5	89.5	89.6
2 120	79.6	83.7	85.4	86.7	89.0	89.0	89.5	90.1	90.3	90.6	90.8	90.8	91.0	91.0	91.0	91.1
2 100	79.6	83.8	85.5	86.8	89.1	89.1	89.6	90.4	90.8	91.1	91.4	91.5	91.7	91.7	91.7	91.8
2 800	79.6	83.9	85.6	87.0	89.5	89.5	89.9	91.0	91.3	91.8	92.5	92.6	92.8	92.8	92.8	92.9
2 700	79.6	84.4	86.1	87.6	90.1	90.1	90.5	91.6	91.9	92.5	93.1	93.2	93.4	93.4	93.4	93.5
2 600	79.6	85.3	87.1	88.8	91.3	91.3	91.7	92.9	93.2	94.4	95.3	95.4	95.7	95.7	95.7	95.8
2 500	79.9	85.8	87.6	89.4	92.4	92.5	93.0	94.2	94.5	95.8	96.7	96.8	97.1	97.1	97.1	97.2
2 400	80.1	86.5	88.4	91.3	93.4	93.5	94.1	95.3	95.6	96.9	97.7	97.8	98.2	98.2	98.4	98.7
2 300	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.3	98.4	98.7	98.7	98.9	99.2
2 200	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.3	98.4	98.7	98.7	98.9	99.2
2 100	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.4	98.5	99.2	99.2	99.6	100.0
2	80.2	86.9	88.8	90.8	93.9	94.0	94.5	95.7	96.1	97.4	98.4	98.5	99.2	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
STATION

MALMSTROM AFB MI
STATION NAME

74-87
YEAR

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0500-0800
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1/2	≥1/4	≥0
NO CEILING	41.4	41.6	41.7	41.8	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.4	42.4	42.4
≥ 2000	48.2	48.5	49.7	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.4	49.4	49.5
≥ 1800	48.7	49.0	49.2	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	50.0
≥ 1600	49.2	49.6	49.8	49.9	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.5
≥ 1400	51.8	51.1	51.3	51.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.9	51.9	52.0
≥ 1200	55.7	56.0	56.2	56.3	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	56.9	57.0
≥ 1000	63.2	63.8	64.1	64.2	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.9
≥ 900	64.8	65.4	65.7	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.6
≥ 800	68.9	69.5	69.8	69.9	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.5	70.5	70.8
≥ 700	69.8	70.4	70.9	71.0	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.6	71.6	71.8
≥ 6000	70.1	70.9	71.3	71.4	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	72.0	72.0	72.3
≥ 5000	71.8	72.6	73.1	73.3	73.8	73.8	73.8	73.8	73.8	74.0	74.0	74.0	74.0	74.1	74.1	74.3
≥ 4500	72.9	73.7	74.3	74.6	75.2	75.2	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.5	75.5	75.7
≥ 4000	75.3	76.1	76.9	77.2	77.8	77.8	78.2	78.2	78.2	78.4	78.4	78.4	78.4	78.5	78.5	78.7
≥ 3500	76.3	77.3	78.4	78.9	79.8	79.8	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.4	80.4	80.6
≥ 3000	76.8	77.8	78.9	79.7	80.6	81.0	81.1	81.1	81.1	81.3	81.3	81.3	81.3	81.4	81.4	81.7
≥ 2500	77.3	78.7	79.8	80.5	81.5	81.8	81.9	81.9	82.2	82.2	82.2	82.2	82.3	82.3	82.6	82.6
≥ 2000	77.6	79.1	80.3	81.2	82.4	82.5	82.8	83.0	83.0	83.2	83.2	83.2	83.3	83.3	83.7	83.7
≥ 1800	77.8	79.4	80.5	81.4	82.6	82.7	83.0	83.2	83.2	83.4	83.4	83.4	83.4	83.5	83.5	83.9
≥ 1500	78.7	80.2	81.4	82.4	83.8	83.9	84.4	84.6	84.6	85.2	85.3	85.3	85.3	85.4	85.7	85.7
≥ 1200	79.1	81.1	82.4	83.3	84.7	84.8	85.6	85.9	86.1	86.8	86.9	86.9	86.9	87.1	87.1	87.4
≥ 1000	79.4	81.7	83.1	84.3	86.0	86.1	87.1	87.5	87.7	88.6	88.7	88.7	88.7	89.1	89.1	89.5
≥ 900	79.5	81.8	83.2	84.5	86.2	86.5	87.4	87.8	88.3	89.1	89.4	89.4	89.9	89.9	90.3	90.3
≥ 800	79.5	81.9	83.3	84.6	86.6	86.8	88.0	88.5	89.0	90.1	90.3	90.3	90.3	91.0	91.0	91.5
≥ 700	79.7	82.5	83.9	85.5	88.0	88.2	89.5	90.0	90.5	91.6	91.9	91.9	91.9	92.6	92.6	93.1
≥ 600	79.7	82.5	83.9	85.6	88.1	88.4	89.7	90.4	91.0	92.4	92.9	92.9	92.9	93.5	93.5	94.3
≥ 500	79.7	83.2	84.7	86.6	89.1	89.6	90.9	91.9	92.5	94.2	94.8	94.8	94.8	95.6	95.6	96.2
≥ 400	80.0	83.8	85.4	87.3	90.0	90.5	92.0	93.2	93.8	95.7	96.3	96.3	96.3	97.4	97.4	98.4
≥ 300	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.4	94.0	96.0	96.9	96.9	96.9	98.0	98.0	98.6
≥ 200	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.5	94.2	96.3	97.2	97.2	97.2	98.3	98.3	98.9
≥ 100	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.7	94.3	96.5	97.3	97.3	97.3	98.5	98.5	99.4
≥ 0	80.0	83.9	85.5	87.5	90.2	90.8	92.3	93.7	94.3	96.5	97.3	97.3	97.3	98.5	98.5	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
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

HALMSTROM AFB MT
STATION NAME

74-83
YEARS

MAP
MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1950-1980
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥20000	44.2	44.6	44.6	44.8	44.9	44.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥18000	52.6	53.1	53.1	53.3	53.4	53.4	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥16000	53.9	54.4	54.4	54.6	54.7	54.7	54.9	54.9	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1
≥14000	56.6	57.1	57.1	57.3	57.4	57.4	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥12000	67.5	61.1	61.1	61.3	61.4	61.4	61.6	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7
≥10000	67.7	67.6	67.6	68.3	68.4	68.4	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7
≥9500	68.1	68.8	68.8	69.5	69.6	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥8000	71.3	72.0	72.0	72.8	72.9	72.9	73.0	73.2	73.2	73.2	73.3	73.4	73.4	73.4	73.4	73.4
≥7000	71.8	72.7	72.7	73.4	73.5	73.5	73.7	73.9	74.0	74.0	74.1	74.2	74.2	74.2	74.2	74.2
≥6000	72.8	73.7	73.7	74.4	74.6	74.6	74.9	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3
≥5000	74.1	74.9	75.1	75.8	76.0	76.1	76.3	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7
≥4500	74.7	75.7	75.8	76.6	76.9	77.1	77.3	77.4	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6
≥4000	76.9	78.2	78.5	79.5	80.1	80.4	80.6	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1
≥3500	78.1	79.6	79.9	81.1	81.8	82.2	82.4	82.7	82.7	82.8	82.9	82.9	83.0	83.0	83.0	83.0
≥3000	78.9	80.9	81.5	82.7	83.7	84.1	84.3	85.1	85.1	85.2	85.5	85.6	85.8	85.8	85.8	85.8
≥2500	79.2	81.2	81.8	83.2	84.2	84.6	84.8	85.6	85.7	85.8	86.1	86.2	86.5	86.5	86.5	86.5
≥2000	79.4	81.8	82.5	84.1	85.1	85.7	85.9	86.7	86.8	87.0	87.3	87.4	87.6	87.6	87.6	87.6
≥1800	79.5	82.0	82.7	84.3	85.3	85.9	86.1	86.9	87.0	87.3	87.6	87.7	88.1	88.1	88.1	88.1
≥1500	81.2	82.9	83.7	85.4	86.5	87.1	87.3	88.2	88.4	88.7	89.1	89.2	89.7	89.7	89.7	89.7
≥1200	81.2	84.2	85.1	86.8	88.1	88.8	89.5	90.8	91.4	91.9	92.4	92.5	92.9	93.0	93.0	93.0
≥1000	81.2	84.3	85.2	87.1	88.7	89.6	90.3	92.0	92.8	93.3	93.8	93.9	94.4	94.5	94.5	94.5
≥900	81.2	84.3	85.3	87.2	88.9	89.8	90.5	92.3	93.0	93.7	94.3	94.4	94.9	95.1	95.1	95.1
≥800	81.3	84.4	85.4	87.3	89.1	90.1	90.9	92.8	93.5	94.2	94.8	94.9	95.5	95.6	95.6	95.6
≥700	81.4	84.5	85.7	87.7	89.6	90.5	91.5	93.5	94.3	95.4	96.0	96.1	96.7	96.8	96.8	96.8
≥600	81.4	84.5	85.8	87.8	89.7	90.8	91.8	93.9	94.6	95.7	96.3	96.5	97.0	97.1	97.2	97.4
≥500	81.4	84.6	86.0	88.3	90.1	91.2	92.4	94.9	95.8	97.1	97.8	98.0	98.5	98.6	98.7	98.9
≥400	81.4	84.6	86.0	88.3	90.1	91.2	92.5	95.3	96.2	97.5	98.3	98.4	98.9	99.0	99.1	99.4
≥300	81.4	84.6	86.0	88.3	90.2	91.3	92.6	95.4	96.3	97.6	98.4	98.5	99.1	99.2	99.4	99.6
≥200	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.7	98.5	98.6	99.2	99.4	99.7	99.9
≥100	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.8	98.6	98.7	99.4	99.5	99.8	100.0
≥0	81.4	84.6	86.0	88.3	90.2	91.3	92.7	95.5	96.5	97.8	98.6	98.7	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

MAC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.8	≥0.6	≥0.5	≥0.4	≥0.3	≥0.2
≥12000	47.3	41.7	41.7	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥18000	48.8	49.7	49.7	50.2	52.3	50.3	52.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥16000	50.0	50.9	50.9	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥14000	51.6	51.5	51.5	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥12000	52.6	53.4	53.4	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
≥10000	57.4	58.3	58.3	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥8000	64.8	65.7	65.7	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
≥6000	66.2	67.1	67.1	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥4500	69.5	70.4	70.4	71.0	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥3000	70.1	71.1	71.1	71.6	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥1500	71.4	72.4	72.4	72.9	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥1000	74.9	75.9	75.9	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8
≥750	76.8	77.7	77.7	78.3	78.4	78.4	78.4	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6
≥600	79.5	80.8	80.8	81.4	81.6	81.6	81.9	81.9	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2
≥450	81.5	81.9	81.9	82.6	82.8	82.8	83.2	83.2	83.3	83.3	83.4	83.4	83.5	83.5	83.5	83.5
≥300	81.3	83.2	83.3	84.0	84.2	84.4	84.8	84.9	85.1	85.1	85.2	85.2	85.3	85.3	85.3	85.3
≥150	82.5	84.4	84.7	85.5	85.8	86.1	86.8	87.0	87.3	87.3	87.4	87.4	87.5	87.5	87.5	87.5
≥100	83.8	85.8	86.2	87.0	87.3	87.6	88.5	88.7	89.0	89.0	89.2	89.2	89.4	89.4	89.4	89.4
≥75	84.3	86.5	86.9	87.6	88.0	88.3	89.1	89.4	89.7	89.7	89.9	89.9	90.0	90.0	90.0	90.0
≥60	85.2	87.3	87.7	88.5	89.0	89.5	90.5	90.8	91.1	91.1	91.3	91.3	91.4	91.4	91.6	91.6
≥45	85.6	88.3	88.7	89.5	90.6	91.3	92.6	92.8	93.3	93.3	93.5	93.5	93.7	93.7	93.9	94.0
≥30	86.0	88.9	89.4	90.2	91.5	92.2	93.7	94.0	94.6	95.1	95.4	95.5	95.6	95.6	95.8	95.9
≥15	86.6	88.9	89.4	90.3	91.6	92.4	94.7	94.5	95.2	95.7	96.3	96.5	96.6	96.6	96.8	96.9
≥10	86.6	89.6	90.0	91.0	92.4	93.1	94.7	95.4	96.7	96.7	97.3	97.5	97.6	97.6	97.8	98.0
≥7.5	86.6	89.6	90.1	91.1	92.5	93.2	94.9	95.7	96.5	97.1	97.7	98.0	98.1	98.1	98.3	98.4
≥6	86.6	89.6	90.3	91.3	92.7	93.4	95.2	95.9	96.7	97.4	98.2	98.4	98.7	98.7	98.9	99.0
≥4.5	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥3	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥2	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥1.5	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥1	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.8	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.6	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.5	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.4	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.3	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.2	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4
≥0.1	86.6	89.6	90.4	91.5	92.9	93.7	95.5	96.2	97.0	97.7	98.5	98.7	99.0	99.0	99.2	99.4

TOTAL NUMBER OF OBSERVATIONS 932

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

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
 HOUR

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	39.6	40.2	47.5	47.6	47.6	40.6	47.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 20000	49.4	50.2	57.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 18000	57.0	50.9	51.3	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
≥ 16000	57.0	50.9	51.3	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
≥ 14000	52.3	53.1	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 12000	58.1	58.9	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 10000	63.9	64.7	65.2	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
≥ 9000	64.4	65.3	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000	68.5	69.4	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1
≥ 7000	69.1	70.0	70.4	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9
≥ 6000	77.6	71.5	71.9	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4
≥ 5000	75.6	76.5	76.9	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	77.2	78.1	78.5	78.7	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0
≥ 4000	80.1	81.2	81.6	82.2	82.6	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8
≥ 3500	81.8	83.0	83.4	84.2	84.7	84.7	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9
≥ 3000	83.2	84.5	85.1	86.2	86.8	86.8	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2500	84.7	85.7	86.2	87.7	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000	85.4	87.3	88.0	89.7	90.5	90.8	90.9	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800	85.5	87.4	88.1	89.9	90.9	91.2	91.4	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	86.2	88.2	88.9	90.9	91.9	92.3	92.5	92.9	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5
≥ 1200	86.3	88.6	89.4	91.4	93.1	93.5	93.8	94.2	94.8	94.9	95.2	95.3	95.3	95.3	95.3	95.3
≥ 1000	86.5	89.0	89.9	91.9	93.8	94.2	94.5	95.2	95.8	96.6	96.8	97.0	97.0	97.0	97.0	97.0
≥ 900	86.5	89.0	90.0	92.0	93.9	94.3	94.6	95.4	96.1	97.1	97.3	97.5	97.5	97.5	97.5	97.5
≥ 800	86.6	89.1	90.1	92.2	94.0	94.4	95.1	95.9	96.9	98.1	98.4	98.6	98.6	98.6	98.6	98.6
≥ 700	86.7	89.2	90.2	92.3	94.1	94.5	95.2	96.0	97.0	98.2	98.5	98.7	98.7	98.7	98.7	98.7
≥ 600	86.7	89.2	90.2	92.5	94.3	94.7	95.4	96.3	97.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1
≥ 500	86.7	89.2	90.2	92.5	94.3	94.7	95.4	96.3	97.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1
≥ 400	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.7	99.2	99.5	99.5	99.5	99.5	99.5
≥ 300	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.7	99.2	99.5	99.5	99.5	99.5	99.5
≥ 200	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.7	99.7
≥ 100	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.7	99.7
≥ 0	86.7	89.2	90.2	92.5	94.3	94.7	95.5	96.5	97.4	98.9	99.5	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 970

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

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

MAP
NO.

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
NO CEILING	47.6	41.0	41.1	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 20000	50.2	50.5	50.6	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 18000	50.5	50.9	51.0	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 16000	51.3	51.6	51.7	52.0	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 14000	52.6	52.9	53.0	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 12000	57.5	57.8	58.1	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 10000	65.3	65.7	65.9	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
≥ 9000	65.7	66.1	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
≥ 8000	69.6	70.0	70.2	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 7000	70.6	71.1	71.3	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
≥ 6000	71.3	71.7	71.9	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 5000	74.6	75.1	75.4	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4500	77.0	77.5	77.8	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000	79.2	80.3	81.1	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500	80.5	81.8	82.7	83.2	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8
≥ 3000	81.6	83.2	84.5	85.2	85.7	85.8	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2
≥ 2500	82.3	84.2	85.7	86.6	87.2	87.4	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8
≥ 2000	84.0	86.0	87.7	88.7	89.4	89.6	90.2	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	84.1	86.1	88.7	89.0	89.7	89.9	90.5	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1500	84.7	87.1	89.1	90.3	91.4	91.7	92.5	92.9	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	84.8	87.4	89.5	90.8	92.2	92.6	93.3	94.2	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	84.8	88.7	90.1	91.4	92.8	93.2	94.2	95.2	95.5	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	84.8	88.0	90.1	91.4	92.8	93.3	94.4	95.4	95.8	96.7	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	84.8	88.1	90.3	91.7	93.1	93.7	94.7	95.8	96.2	97.1	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	84.8	88.1	90.4	91.8	93.3	93.9	95.2	96.5	97.0	97.8	98.2	98.2	98.5	98.5	98.5	98.5
≥ 600	84.8	88.1	90.4	91.8	93.4	94.0	95.3	96.7	97.2	98.1	98.4	98.4	98.8	98.8	98.8	98.8
≥ 500	84.8	88.1	90.4	91.8	93.5	94.1	95.4	97.0	97.5	98.4	98.7	98.7	99.2	99.2	99.2	99.2
≥ 400	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥ 300	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥ 200	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥ 100	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4
≥ 0	84.8	88.2	90.5	91.9	93.7	94.2	95.5	97.1	97.6	98.5	98.8	98.8	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755 MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

7100-2370
NO. OF STATIONS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.16	≥0.1	≥0	
NO CEILING	49.6	49.8	49.8	49.9	50.1	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 20000	56.9	57.1	57.1	57.2	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 18000	57.3	57.5	57.5	57.6	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 16000	57.4	57.6	57.6	57.7	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	58.6	58.9	58.9	59.0	59.2	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 12000	62.7	63.0	63.0	63.1	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 10000	69.4	69.7	69.7	69.8	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 9000	69.9	70.2	70.2	70.3	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 8000	73.4	73.9	73.9	74.1	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 7000	74.2	74.6	74.6	74.8	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	74.5	74.9	74.9	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 5000	76.6	77.3	77.4	77.6	77.8	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4500	77.6	78.6	78.8	79.0	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000	80.2	81.3	81.6	81.8	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 3500	81.1	82.3	82.9	83.1	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 3000	81.8	83.3	84.0	84.3	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500	82.9	84.6	85.8	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
≥ 2000	83.7	85.8	87.4	87.7	88.8	88.9	88.9	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1800	83.9	86.1	87.7	88.2	89.2	89.4	89.4	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1500	84.4	87.1	89.4	90.0	91.2	91.4	91.6	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	84.6	87.6	89.9	91.5	92.2	92.5	92.8	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	84.7	88.3	91.7	91.6	93.5	94.0	94.5	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	84.7	88.4	91.1	91.7	93.7	94.3	94.9	95.8	95.9	96.2	96.2	96.2	96.5	96.5	96.5	96.5
≥ 800	84.7	88.5	91.2	91.8	93.8	94.4	95.2	96.0	96.1	96.5	96.5	96.5	96.5	96.7	96.7	96.7
≥ 700	84.8	88.8	91.5	92.2	94.1	94.8	95.6	96.7	96.8	97.2	97.2	97.2	97.5	97.5	97.5	97.5
≥ 600	84.9	89.0	91.8	92.5	94.4	95.2	96.0	97.1	97.3	97.8	97.8	97.8	98.3	98.3	98.3	98.3
≥ 500	84.9	89.0	91.8	92.5	94.4	95.5	96.5	97.6	98.0	98.5	98.5	98.5	99.5	99.1	99.1	99.1
≥ 400	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.7	99.7	99.8	99.8
≥ 300	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	99.9
≥ 200	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	100.0
≥ 100	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	100.0
≥ 0	84.9	89.0	91.8	92.5	94.5	95.6	96.8	98.1	98.4	99.0	99.0	99.0	99.1	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 1097 JUL 64 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEARS

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
HOURS 1-24

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0	≥0
≥ 20000	43.8	44.3	44.4	44.6	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 18000	51.4	52.1	52.2	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7	52.7	52.7
≥ 16000	51.9	52.6	52.7	52.9	53.1	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 14000	52.3	52.9	53.1	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.6	53.6
≥ 12000	53.8	54.5	54.6	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 10000	58.4	59.1	59.2	59.4	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 8000	65.4	66.2	66.4	66.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0
≥ 6000	66.4	67.2	67.3	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9
≥ 4000	69.8	70.7	70.9	71.2	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6
≥ 2000	70.6	71.5	71.7	72.1	72.2	72.2	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.5	72.5
≥ 1000	71.5	72.4	72.6	72.9	73.1	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3
≥ 500	74.0	75.0	75.3	75.6	75.8	75.8	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.1	76.1
≥ 200	75.4	76.5	76.8	77.1	77.4	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.7	77.7
≥ 100	78.1	79.4	79.9	80.3	80.7	80.8	80.9	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2
≥ 50	79.2	80.8	81.4	82.0	82.5	82.5	82.7	82.7	82.8	82.8	82.9	82.9	82.9	82.9	83.0	83.0
≥ 20	81.1	82.0	82.8	83.5	84.2	84.2	84.4	84.6	84.6	84.7	84.8	84.8	84.9	84.9	84.9	84.9
≥ 10	81.7	82.9	83.9	84.7	85.5	85.7	85.9	86.0	86.1	86.2	86.3	86.3	86.4	86.4	86.4	86.4
≥ 5	81.7	84.7	85.1	86.1	86.9	87.2	87.5	87.8	87.9	88.0	88.1	88.1	88.2	88.2	88.2	88.3
≥ 2	81.9	84.3	85.4	86.4	87.3	87.5	87.8	88.2	88.3	88.4	88.5	88.5	88.6	88.6	88.7	88.7
≥ 1	82.7	85.2	86.5	87.6	88.7	89.0	89.4	89.8	90.0	90.2	90.3	90.4	90.5	90.5	90.5	90.6
≥ 0.5	83.1	85.8	87.2	88.3	89.8	90.2	90.8	91.5	91.8	92.1	92.2	92.2	92.4	92.4	92.4	92.5
≥ 0.25	83.1	86.3	87.8	89.1	90.8	91.2	92.1	92.9	93.3	93.8	94.0	94.0	94.2	94.2	94.3	94.3
≥ 0.1	83.2	86.3	87.9	89.2	90.9	91.4	92.3	93.3	93.7	94.4	94.7	94.9	95.0	95.0	95.0	95.1
≥ 0.05	83.3	86.5	88.1	89.4	91.3	91.8	92.7	93.8	94.3	95.0	95.4	95.5	95.7	95.8	95.8	95.9
≥ 0.025	83.3	86.8	88.4	89.8	91.7	92.2	93.3	94.4	95.0	95.8	96.2	96.3	96.6	96.6	96.7	96.7
≥ 0.01	83.3	86.9	88.6	90.1	92.1	92.6	93.7	94.9	95.5	96.5	97.0	97.1	97.4	97.4	97.6	97.6
≥ 0.005	83.4	87.2	88.9	90.4	92.5	93.1	94.2	95.6	96.2	97.2	97.8	97.9	98.3	98.3	98.4	98.5
≥ 0.0025	83.5	87.4	89.1	90.7	92.8	93.4	94.6	96.1	96.7	97.8	98.3	98.4	98.8	98.9	99.1	99.2
≥ 0.001	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.7	98.8	99.3	99.3	99.6	99.9
≥ 0.0005	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.8	98.9	99.4	99.4	99.7	100.0
≥ 0.00025	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.8	98.9	99.4	99.4	99.7	100.0
≥ 0.0001	83.5	87.4	89.2	90.8	92.9	93.5	94.8	96.3	96.9	98.1	98.8	98.9	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/FMAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0300
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 20000	51.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 18000	61.8	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	61.9	61.9
≥ 16000	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000	62.3	62.3	62.3	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
≥ 12000	65.1	65.1	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000	72.9	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 9000	73.9	74.1	74.1	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 8000	75.0	75.2	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6
≥ 7000	75.7	75.9	75.9	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2
≥ 6000	76.7	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2
≥ 5000	79.8	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4
≥ 4500	80.6	80.9	80.9	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2
≥ 4000	82.4	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1
≥ 3500	83.2	83.7	83.7	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0
≥ 3000	84.1	84.7	84.7	84.8	84.8	84.8	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1
≥ 2500	85.2	85.9	86.1	86.3	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9
≥ 2000	85.3	86.3	86.7	86.9	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6
≥ 1800	85.4	86.7	87.0	87.2	87.6	87.7	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2
≥ 1500	85.8	87.7	89.0	88.4	89.0	89.3	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9
≥ 1200	86.4	88.4	88.8	89.3	90.1	90.4	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2
≥ 1000	86.6	88.7	89.2	89.8	90.8	91.1	91.9	92.4	92.4	92.4	92.4	92.6	92.7	92.7	92.7	92.7
≥ 900	86.9	89.0	89.6	90.1	91.1	91.4	92.3	92.9	92.9	92.9	93.1	93.2	93.2	93.2	93.2	93.2
≥ 800	87.2	89.3	89.9	90.4	91.6	91.9	92.8	93.4	93.4	93.4	93.7	93.8	93.8	93.8	93.8	93.8
≥ 700	87.2	89.3	89.9	90.4	91.6	91.9	92.8	93.4	93.4	93.4	93.8	93.9	93.9	94.0	94.0	94.0
≥ 600	87.7	89.8	90.3	91.0	92.2	92.6	93.6	94.2	94.2	94.2	94.8	94.9	94.9	95.0	95.0	95.0
≥ 500	87.9	90.3	90.9	91.6	93.0	93.3	94.3	95.2	95.2	95.2	96.1	96.2	96.2	96.8	96.8	96.8
≥ 400	87.9	90.3	91.1	91.8	93.3	93.9	95.4	96.3	96.4	96.4	97.4	97.8	97.8	98.4	98.4	98.4
≥ 300	88.1	90.6	91.3	92.1	93.8	94.3	95.9	96.9	97.0	97.0	98.0	98.3	98.3	99.1	99.1	99.1
≥ 200	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.0	97.1	97.1	98.1	98.4	98.7	99.4	99.4	99.4
≥ 100	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.1	97.2	97.2	98.3	98.7	98.9	99.8	99.8	99.8
≥ 0	88.1	90.6	91.4	92.2	93.9	94.4	96.0	97.1	97.2	97.2	98.3	98.7	98.9	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

3200-0500
HOURLY PERIOD

CEILING FEET	VISIBILITY STATUTE MILES																	
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0		
NO CEILING	56.3	56.9	57.7	57.0	57.0	57.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1
≥ 20000	62.7	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4
≥ 18000	63.0	63.6	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	63.8	63.8	63.8
≥ 6000	63.1	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9
≥ 14000	63.4	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2
≥ 12000	65.2	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	66.0	66.0	66.0
≥ 10000	69.9	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.2	71.2
≥ 9000	70.4	71.1	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.8	71.8
≥ 8000	72.0	72.8	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
≥ 7000	72.3	73.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.8	73.8
≥ 6000	73.4	74.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9	75.0	75.0
≥ 5000	75.9	76.8	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.7	77.9
≥ 4500	78.3	79.2	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.2	80.2	80.2	80.2	80.3	80.3	80.6
≥ 4000	79.8	81.0	81.7	81.7	81.8	81.8	81.8	81.8	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.2	82.2	82.4
≥ 3500	80.9	82.1	82.9	82.9	83.0	83.0	83.0	83.0	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.4	83.7
≥ 3000	81.6	83.2	84.2	84.2	84.4	84.4	84.4	84.4	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.9	85.1
≥ 2500	82.7	84.3	85.3	85.4	85.7	85.7	85.7	85.8	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.4
≥ 2000	83.0	85.0	86.0	86.1	86.4	86.4	86.4	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.2	87.2	87.4
≥ 1800	83.2	85.2	86.2	86.3	86.8	86.8	86.8	87.1	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.8
≥ 1500	83.9	87.3	88.1	88.4	88.9	88.9	88.9	89.2	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.7	89.7	89.9
≥ 1200	84.6	87.7	88.8	89.1	89.7	89.7	89.7	90.1	90.3	90.3	90.4	90.4	90.4	90.4	90.6	90.6	90.6	90.8
≥ 1000	85.1	88.3	89.4	89.8	90.4	90.4	90.4	91.4	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.3
≥ 900	85.8	89.0	90.1	90.4	91.1	91.1	91.1	92.2	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.1
≥ 800	85.8	89.0	90.1	90.4	91.1	91.1	91.1	92.3	92.9	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.4
≥ 700	85.9	89.1	90.3	90.7	91.4	91.4	91.4	92.7	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.9	93.9	94.1
≥ 600	85.9	89.3	90.6	90.9	91.7	91.7	91.7	93.0	94.1	94.2	94.4	94.4	94.4	94.6	94.6	94.7	94.7	94.9
≥ 500	86.0	90.0	91.2	91.6	92.4	92.4	92.4	93.8	94.9	95.0	95.8	96.0	96.1	96.2	96.3	96.3	96.6	96.6
≥ 400	86.0	90.0	91.3	91.8	93.1	93.1	93.1	95.1	96.2	96.3	97.1	97.3	97.4	97.8	98.0	98.0	98.3	98.3
≥ 300	86.1	90.1	91.6	92.0	93.3	93.3	93.3	95.3	96.7	96.8	97.8	98.0	98.1	98.4	98.4	98.7	98.8	99.2
≥ 200	86.1	90.1	91.6	92.0	93.3	93.3	93.3	95.3	96.7	96.8	97.8	98.0	98.1	98.4	98.4	98.7	98.9	99.3
≥ 100	86.1	90.1	91.6	92.0	93.3	93.3	93.3	95.3	96.7	96.8	97.9	98.1	98.2	98.6	98.6	98.8	99.0	99.6
≥ 0	86.1	90.1	91.6	92.0	93.3	93.3	93.3	95.3	96.7	96.8	97.9	98.1	98.2	98.6	98.6	98.8	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

7600-0890
FORM NO. 1-57

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	48.7	49.0	49.1	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	55.3	55.7	55.8	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
18000	56.0	56.3	56.4	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
16000	56.1	56.4	56.6	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
14000	57.3	57.7	57.8	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
12000	67.9	61.2	61.3	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
10000	66.8	67.3	67.4	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
9000	67.4	68.1	68.2	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
8000	71.0	71.8	71.9	72.4	72.7	72.7	72.9	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
7000	71.6	72.3	72.4	73.0	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
6000	72.0	73.0	73.1	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
5000	74.6	75.8	75.9	76.6	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
4500	75.8	77.1	77.2	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
4000	77.8	79.4	79.7	80.3	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3500	79.6	81.3	81.6	82.2	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
3000	81.0	82.9	83.2	84.2	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2500	82.7	84.1	84.7	85.8	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
2000	82.7	85.2	85.8	87.1	87.9	87.9	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
1800	82.9	85.4	86.0	87.6	88.4	88.4	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1500	84.1	86.7	87.2	88.8	89.7	89.7	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
1200	84.3	86.9	87.4	89.1	90.1	90.3	90.8	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
1000	84.8	87.6	88.1	89.9	91.0	91.3	92.0	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
900	84.9	87.8	88.3	90.1	91.3	91.7	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
800	85.0	87.9	88.4	90.2	91.4	91.8	92.4	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
700	85.0	87.9	88.6	90.6	91.8	92.1	92.8	93.3	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0
600	85.3	88.1	88.8	90.8	92.3	92.8	93.4	94.1	94.3	94.7	94.8	94.9	94.9	94.9	94.9	94.9
500	85.1	88.2	88.9	91.0	92.7	93.1	93.9	94.7	94.9	95.3	95.7	95.8	95.8	95.8	95.8	95.8
400	85.1	88.3	89.1	91.2	92.9	93.3	94.3	95.4	95.7	96.2	96.7	96.8	96.8	96.8	96.8	96.8
300	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.2	96.9	97.3	97.4	97.4	97.4	97.4	97.4
200	85.1	88.3	89.1	91.4	93.2	93.7	94.9	96.0	96.3	97.1	97.6	97.7	97.7	97.7	97.7	97.7
100	85.1	88.3	89.1	91.4	93.2	93.7	95.0	96.1	96.4	97.3	97.8	97.9	97.9	97.9	97.9	97.9
0	85.1	88.3	89.1	91.4	93.2	93.7	95.0	96.1	96.4	97.3	97.8	97.9	98.7	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-1100
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	48.7	48.1	48.1	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	55.0	55.1	55.1	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 18000	55.8	55.9	55.9	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
≥ 16000	55.8	55.9	55.9	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
≥ 14000	56.7	56.8	56.8	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 12000	67.6	67.7	67.7	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	67.3	67.6	67.6	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 9000	68.7	68.9	68.9	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 8000	72.7	72.9	72.9	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 7000	73.6	73.9	73.9	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
≥ 6000	74.7	74.3	74.3	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000	75.6	75.9	75.9	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 4500	76.9	77.2	77.2	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
≥ 4000	79.6	80.2	80.2	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500	80.6	81.2	81.2	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000	83.1	84.0	84.0	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 2500	84.3	85.4	85.4	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2000	85.2	86.6	86.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1900	85.4	86.8	86.8	87.1	87.9	88.0	88.3	88.4	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	86.8	88.6	88.6	89.8	89.8	89.9	90.3	90.4	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1700	87.1	89.1	89.4	90.4	90.7	91.1	91.2	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1600	87.6	89.7	90.3	91.7	91.9	92.4	92.7	92.9	93.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1500	87.7	90.0	90.7	92.2	92.4	93.7	93.2	93.4	93.6	93.8	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1400	87.9	90.3	91.0	92.9	93.4	94.0	94.2	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1300	88.1	90.6	91.7	93.2	93.8	94.3	94.6	94.9	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200	88.1	90.9	91.7	93.6	94.1	94.8	95.0	95.3	95.6	96.0	96.1	96.1	96.2	96.4	96.4	96.4
≥ 1100	88.1	90.9	91.8	93.8	94.8	95.4	95.9	96.3	96.8	97.3	97.4	97.4	97.4	97.7	97.9	97.9
≥ 1000	88.1	90.9	92.1	94.1	95.1	95.8	96.3	96.9	97.4	98.0	98.2	98.2	98.2	98.6	98.8	98.8
≥ 900	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 800	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 700	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 600	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 500	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 400	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 300	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 200	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 100	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4
≥ 0	88.1	90.9	92.1	94.3	95.4	96.2	96.9	97.4	98.0	98.6	98.8	98.8	98.8	98.9	99.2	99.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1700-1400
SOURCE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO. CEILING	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 20000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 18000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 16000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000	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	54.1
≥ 12000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 10000	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
≥ 9000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000	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	65.3
≥ 7000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 6000	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	69.1
≥ 5000	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	73.7	73.7	73.7
≥ 4500	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4000	80.6	80.6	80.6	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
≥ 3500	83.0	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3000	86.1	86.7	86.7	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
≥ 2500	87.2	87.8	87.9	88.3	88.3	88.6	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000	88.4	89.4	89.6	90.0	90.0	90.2	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1800	88.7	89.7	89.8	90.2	90.2	90.4	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	89.7	90.9	91.2	91.9	91.9	92.2	92.3	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1200	90.1	91.7	92.1	93.0	93.1	93.6	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	90.1	91.8	92.2	93.3	93.4	93.9	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 900	90.4	92.2	92.8	94.0	94.1	94.6	94.8	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	90.6	92.4	93.1	94.4	94.7	95.1	95.6	95.9	95.9	96.2	96.2	96.3	96.3	96.3	96.3	96.3
≥ 700	90.9	93.1	94.0	95.4	95.7	96.1	96.6	97.0	97.0	97.4	97.4	97.6	97.6	97.6	97.6	97.6
≥ 600	90.9	93.2	94.1	95.6	95.8	96.3	96.8	97.2	97.2	97.8	97.8	98.0	98.0	98.0	98.1	98.1
≥ 500	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.4	99.4
≥ 400	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.6	99.6
≥ 300	91.1	93.4	94.8	96.4	96.7	97.3	98.1	98.6	98.6	99.1	99.1	99.3	99.3	99.4	99.6	99.6
≥ 200	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.8	99.9	99.9
≥ 100	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0
≥ 0	91.1	93.4	94.8	96.6	96.8	97.4	98.2	98.7	98.9	99.4	99.4	99.7	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 990

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

APR
MO

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1577-1770
DATE

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	47.0	40.1	47.1	47.1	47.1	47.1	47.1	47.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥ 20000	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 18000	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 16000	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 14000	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	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	57.4	57.4	57.4
≥ 10000	62.1	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	62.2
≥ 9000	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
≥ 8000	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 7000	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 6000	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	69.6	69.6	69.6
≥ 5000	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500	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	78.6
≥ 4000	83.2	83.3	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3500	85.7	85.8	86.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000	87.9	88.3	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	88.8
≥ 2500	89.2	89.9	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2000	90.1	91.1	91.6	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	90.2	91.2	91.7	92.0	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1600	91.7	92.9	93.7	94.1	94.6	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1400	92.4	93.8	94.6	95.0	95.4	95.6	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1200	92.8	94.2	95.1	95.7	96.1	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	92.8	94.4	95.3	95.9	96.3	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	92.9	94.6	95.4	96.0	96.6	97.0	97.2	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	93.1	94.8	95.9	96.4	97.0	97.4	97.8	97.8	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4
≥ 600	93.2	94.9	96.7	96.7	97.2	97.7	98.0	98.0	98.2	98.6	98.6	98.8	98.8	98.8	98.8	98.8
≥ 500	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.2	99.2	99.6	99.7	99.7	99.7	99.7
≥ 400	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 300	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 200	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 100	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	100.0	100.0	100.0	100.0
≥ 0	93.3	95.1	96.3	97.1	97.7	98.1	98.4	98.6	98.8	99.4	99.4	99.9	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
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

APP

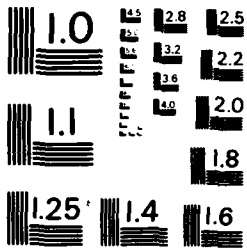
PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1977-2000

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0
≥ 2000	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 1800	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 1600	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1400	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 1200	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
≥ 1000	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	68.8	68.8
≥ 900	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 800	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	73.4
≥ 700	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	73.4
≥ 600	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	75.2	75.2
≥ 500	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	80.3
≥ 450	81.9	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	82.0
≥ 400	84.6	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
≥ 350	87.2	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 300	89.7	89.7	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 250	89.9	91.1	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 200	91.1	92.7	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 180	91.3	93.0	93.2	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 150	91.9	93.9	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 120	92.2	94.2	94.7	95.1	95.4	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥ 100	92.4	94.8	95.3	96.0	96.3	96.4	96.4	96.4	96.4	96.7	96.8	96.8	96.8	96.8	96.8
≥ 90	92.6	94.9	95.4	96.1	96.4	96.6	96.6	96.6	96.6	96.9	97.0	97.0	97.0	97.0	97.0
≥ 80	92.6	94.9	95.4	96.2	96.9	97.0	97.0	97.0	97.3	97.8	97.9	97.9	97.9	97.9	97.9
≥ 70	92.9	95.3	95.9	96.7	97.3	97.4	97.4	97.7	98.1	98.6	98.7	98.8	98.8	98.8	98.8
≥ 60	92.9	95.3	95.9	96.7	97.3	97.4	97.4	97.7	98.2	98.7	98.8	98.9	98.9	98.9	98.9
≥ 50	93.0	95.4	96.0	96.9	97.6	97.8	97.9	98.1	98.7	99.1	99.2	99.3	99.4	99.4	99.4
≥ 40	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.4	99.6	99.8	99.9	99.9	99.9
≥ 30	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0
≥ 20	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0
≥ 10	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0
≥ 0	93.0	95.4	96.0	96.9	97.6	97.8	98.2	98.4	99.0	99.6	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



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

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

APP
PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
DATE

ELEVATION FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0	≥0	≥0
≥ 2000	54.1	54.4	54.7	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
≥ 1800	60.8	61.1	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
≥ 1600	60.8	61.1	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
≥ 1400	61.6	61.9	62.1	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
≥ 1200	65.7	66.0	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
≥ 1000	71.3	71.8	72.0	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
≥ 800	74.2	74.7	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 600	75.7	75.8	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 400	76.6	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 200	80.1	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 1500	61.4	82.1	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
≥ 1400	83.8	84.6	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1300	85.1	86.1	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	86.6
≥ 1200	86.7	87.6	88.0	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1100	86.6	88.2	88.7	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1000	86.9	88.9	89.3	90.2	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 900	87.1	89.3	89.9	90.9	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 800	87.9	90.2	90.9	92.0	92.2	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 700	88.4	90.8	91.6	92.7	93.0	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 600	88.4	90.9	91.7	92.8	93.6	93.6	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	88.4	90.9	91.7	92.8	93.6	93.6	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2
≥ 400	88.9	91.3	92.2	93.8	94.6	94.6	95.1	95.1	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 300	88.9	92.1	93.1	94.8	95.6	95.6	96.1	96.7	96.7	97.0	97.1	97.3	97.3	97.3	97.4	97.4
≥ 200	89.9	92.4	93.4	95.1	95.9	95.9	96.7	97.3	97.4	97.9	98.1	98.3	98.6	98.6	98.7	98.7
≥ 100	89.9	92.4	93.4	95.1	96.1	96.1	97.0	97.7	97.8	98.2	98.4	98.7	98.9	98.9	99.0	99.0
≥ 0	89.9	92.4	93.4	95.1	96.3	96.3	97.2	98.0	98.2	98.8	99.0	99.2	99.7	99.7	99.8	99.8
≥ 0	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.1	99.3	99.8	99.8	99.9	99.9
≥ 0	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.2	99.4	99.9	99.9	100.0	100.0
≥ 0	89.9	92.4	93.4	95.1	96.3	96.4	97.3	98.1	98.3	98.9	99.2	99.4	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-83

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.7	≥.6	≥.5	≥.4	≥.3
NO CEILING	49.2	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	49.6
≥ 2000	57.1	57.2	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	57.4
≥ 1800	57.5	57.6	57.7	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
≥ 1600	57.5	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 1400	58.3	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 1200	61.6	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 1000	67.5	67.8	67.9	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 900	68.3	68.5	68.6	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
≥ 800	71.2	71.6	71.7	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 700	72.0	72.3	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 600	73.3	73.7	73.8	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 500	76.9	77.4	77.5	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 450	78.6	79.1	79.2	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 400	81.5	82.1	82.3	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 350	83.2	83.9	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5
≥ 300	84.8	85.9	86.2	86.5	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 250	85.9	87.1	87.5	87.9	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 200	86.6	88.2	88.6	89.1	89.3	89.4	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 180	86.8	88.4	88.9	89.4	89.7	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 150	87.7	89.7	90.3	91.0	91.3	91.5	91.7	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 120	88.2	90.3	90.9	91.7	92.2	92.4	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 100	88.5	90.7	91.4	92.4	92.9	93.2	93.7	93.9	93.9	94.0	94.1	94.1	94.1	94.1	94.2	94.2
≥ 90	88.7	91.0	91.7	92.7	93.3	93.6	94.1	94.3	94.3	94.5	94.5	94.5	94.5	94.6	94.6	94.7
≥ 80	88.8	91.2	91.9	93.0	93.7	94.0	94.5	94.9	95.0	95.2	95.3	95.3	95.3	95.4	95.4	95.4
≥ 70	89.0	91.4	92.3	93.4	94.1	94.4	95.0	95.4	95.6	95.9	95.9	96.0	96.0	96.1	96.1	96.2
≥ 60	89.2	91.7	92.6	93.7	94.5	94.8	95.4	95.9	96.1	96.5	96.6	96.7	96.8	96.9	96.9	96.9
≥ 50	89.3	92.0	92.9	94.2	95.1	95.4	96.1	96.7	96.9	97.5	97.6	97.8	98.0	98.1	98.1	98.2
≥ 40	89.3	92.0	93.0	94.3	95.3	95.7	96.6	97.3	97.5	98.1	98.3	98.5	98.8	98.9	99.0	99.0
≥ 30	89.3	92.0	93.1	94.4	95.5	95.9	96.9	97.6	97.8	98.5	98.7	98.9	99.3	99.4	99.5	99.5
≥ 20	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.6	98.8	99.0	99.4	99.5	99.6	99.7
≥ 10	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.7	98.9	99.1	99.5	99.7	99.8	99.9
≥ 0	89.3	92.0	93.1	94.5	95.5	95.9	96.9	97.6	97.9	98.7	98.9	99.1	99.5	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0000-0200
TIME PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0	
≥12000	52.7	53.0	53.0	53.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
2 18000	59.0	59.5	59.5	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 16000	59.7	59.5	59.5	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 14000	59.7	59.5	59.5	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2 12000	62.4	62.8	62.8	62.8	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2 10000	68.8	69.5	69.5	69.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2 9000	69.7	70.3	70.3	70.3	70.3	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2 8000	72.5	73.1	73.1	73.1	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2 7000	73.2	73.9	73.9	73.9	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2 6000	74.1	74.7	74.7	74.7	74.7	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2 5000	78.5	79.2	79.2	79.2	79.2	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 4500	80.9	81.8	81.8	81.8	81.8	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
2 4000	83.1	84.1	84.1	84.1	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2 3500	85.5	86.8	87.2	87.2	87.2	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2 3000	86.3	87.8	88.5	88.6	88.6	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2 2500	87.1	88.6	89.5	89.6	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
2 2000	87.8	89.5	90.4	90.5	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2 1800	87.8	89.7	90.6	90.9	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2 1500	88.3	90.1	91.3	91.5	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
2 1200	88.9	91.0	92.4	92.7	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2 1000	89.2	91.4	93.7	93.5	94.1	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
2 900	89.6	92.0	94.1	94.4	94.9	95.2	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2 800	89.6	92.3	94.4	94.8	95.4	95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2 700	89.9	92.8	94.9	95.4	95.9	96.2	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2 600	90.2	93.2	95.7	96.2	96.8	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2 500	90.2	93.4	96.3	97.0	97.7	98.1	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 400	90.2	93.4	96.3	97.0	97.7	98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 300	90.2	93.4	96.5	97.1	98.0	98.3	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 200	91.2	93.7	96.7	97.3	98.3	98.6	99.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 100	90.2	93.7	96.7	97.3	98.3	98.7	99.1	99.6	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0
2 00	90.2	93.7	96.7	97.3	98.3	98.7	99.1	99.6	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0300-0500
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	50.0	50.0	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
900	55.3	55.3	55.4	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
800	55.4	55.4	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
700	55.4	55.4	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
600	55.8	55.8	55.9	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
500	58.7	58.7	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
400	66.8	66.8	66.9	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
300	67.7	67.7	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
200	71.3	71.3	71.4	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
100	71.7	71.8	71.9	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
0	72.6	72.7	72.8	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
1000	77.2	77.6	77.7	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
900	79.7	80.1	80.2	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
800	81.7	82.2	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
700	83.8	84.8	85.4	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
600	84.5	86.1	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
500	85.2	87.0	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
400	85.6	87.8	88.5	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
300	85.9	88.4	89.1	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
200	86.5	89.0	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	90.1
100	87.4	90.0	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
0	87.4	90.8	92.5	92.7	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
1000	87.5	90.9	92.8	93.1	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
900	87.5	91.0	92.9	93.2	94.0	94.1	94.1	94.1	94.1	94.2	94.4	94.4	94.4	94.4	94.4	94.4
800	88.0	91.4	93.3	93.8	94.5	94.7	94.7	94.7	94.7	94.8	95.1	95.1	95.1	95.1	95.1	95.1
700	88.6	92.3	94.7	95.4	96.1	96.7	96.8	96.8	96.8	96.8	96.9	97.1	97.1	97.1	97.1	97.1
600	88.7	92.4	95.2	95.9	96.8	97.3	97.5	97.8	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2
500	88.7	92.4	95.2	95.9	96.9	97.5	98.0	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6
400	88.7	92.4	95.3	96.0	97.2	97.8	98.3	98.6	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0
300	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0
200	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0
100	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0
0	89.0	92.7	95.7	96.6	97.8	98.5	98.9	99.4	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

STATION

STATION NAME

YEAR

6670-0800

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
≥20000	46.6	46.6	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥18000	53.7	53.7	53.7	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥16000	53.2	53.2	53.5	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥14000	53.3	53.3	53.7	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥12000	54.3	54.3	54.6	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
≥10000	58.2	58.2	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥8000	68.7	68.1	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥6000	69.6	69.7	70.7	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥4000	73.9	74.0	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥2000	74.5	74.6	74.9	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥1000	75.5	75.6	75.9	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
≥500	77.8	78.7	78.5	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥200	78.9	79.0	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥100	80.8	81.2	81.7	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥50	81.7	82.2	82.7	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥20	83.7	83.9	84.5	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
≥10	83.4	84.3	84.9	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
≥5	84.3	85.5	86.5	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥2.5	84.5	85.8	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
≥1.5	85.4	87.0	88.4	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥0.75	86.1	88.5	90.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥0.5	86.8	89.1	91.2	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥0.25	87.0	89.4	91.4	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥0.1	87.3	89.8	91.8	92.4	92.8	92.8	92.8	92.8	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1
≥0.05	87.8	90.4	92.4	93.2	94.0	94.0	94.0	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥0.01	88.6	91.5	93.8	94.6	95.8	95.9	96.1	96.5	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9
≥0	88.7	91.6	94.7	94.9	96.2	96.3	96.6	97.2	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥0.001	88.8	91.8	94.2	95.3	96.7	96.9	97.3	98.0	98.1	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥0.0001	88.8	91.8	94.4	95.5	97.0	97.2	97.6	98.3	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4
≥0.00001	88.8	92.2	94.7	95.9	97.4	97.6	98.3	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥0.000001	88.8	92.2	94.7	95.9	97.4	97.6	98.3	98.9	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥10000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥7000	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
≥6000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥5000	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	55.8	55.8	55.8
≥4000	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥3000	61.2	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
≥2000	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
≥1500	67.8	68.0	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
≥1000	70.9	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥700	71.9	72.0	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	72.2
≥600	73.0	73.1	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
≥500	75.7	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥450	77.1	77.3	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
≥400	80.2	80.5	80.6	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥350	81.7	82.0	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
≥300	83.0	83.5	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	83.9
≥250	84.7	84.6	84.7	84.8	84.9	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥200	86.0	87.0	87.2	87.4	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥180	86.2	87.2	87.4	87.6	87.8	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥150	87.6	89.1	89.7	89.9	90.3	90.3	90.4	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥120	88.8	90.6	91.3	91.5	91.9	91.9	92.0	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥100	91.5	93.1	94.1	94.3	94.7	94.7	95.1	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥90	91.0	93.5	94.6	94.8	95.4	95.4	95.7	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥80	91.0	93.5	94.6	94.8	95.5	95.5	95.8	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥70	91.1	94.1	95.3	95.5	96.2	96.2	96.6	96.7	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥60	91.5	94.6	95.8	96.0	97.1	97.1	97.4	97.5	97.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥50	91.5	95.1	96.3	96.7	97.8	98.0	98.3	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥40	91.6	95.2	96.5	96.8	98.1	98.2	98.5	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥30	91.6	95.3	96.6	97.0	98.4	98.5	98.8	99.1	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥20	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥10	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0	91.6	95.4	96.8	97.2	98.6	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400
TIME PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	
20000	47.7	40.0	47.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
18000	57.2	50.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
16000	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
14000	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	51.2	51.2	51.2	51.2
12000	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	54.1	54.1
10000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
9000	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	60.3
8000	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
7000	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
6000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
5000	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	70.4	70.4
4500	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
4000	80.9	80.9	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
3500	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
3000	84.9	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	85.4	85.4
2500	86.9	87.2	87.2	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2000	89.5	89.8	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1800	89.8	90.1	90.2	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
1500	91.7	92.3	92.5	93.0	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
1200	92.7	93.5	94.7	94.5	94.8	94.9	94.9	94.9	94.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1000	93.4	94.7	95.4	96.0	96.5	96.6	96.6	96.6	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
900	93.4	94.7	95.4	96.0	96.5	96.6	96.6	96.6	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
800	93.4	94.8	95.5	96.1	96.6	96.8	96.8	96.8	96.8	97.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1
700	93.4	95.2	96.0	96.7	97.1	97.3	97.4	97.4	97.4	97.6	97.8	98.7	98.0	98.0	98.0	98.0	98.0
600	93.5	95.5	96.3	97.3	97.7	98.1	98.2	98.3	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
500	93.8	95.7	96.6	97.5	98.7	98.4	98.7	98.8	99.7	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
400	93.8	95.9	96.8	97.7	98.7	98.6	98.9	99.7	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
300	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	93.9	96.0	96.9	97.8	98.3	98.7	99.0	99.1	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 ATR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7-7755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2.2	≥2.0	≥1.8	≥1.6	≥1.4	≥1.2	≥1.0	≥0.8	≥0.6	≥0.4
NO. OF TIME	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 29000	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 18000	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 15000	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 14000	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 12000	52.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 10000	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	60.5	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
≥ 8000	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	62.5	62.5	62.5
≥ 7000	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 6000	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	65.1	65.1
≥ 5000	73.3	73.7	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
≥ 4500	78.1	78.4	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000	82.7	83.0	83.5	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3500	86.2	86.6	87.1	87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3000	87.7	88.1	88.6	89.0	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500	89.1	89.7	90.4	91.0	91.4	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	90.8	91.8	92.6	93.2	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1800	91.9	91.9	92.7	93.3	93.8	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500	91.8	93.4	94.3	95.1	95.7	95.7	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1200	92.2	94.3	95.2	96.1	96.8	96.9	97.5	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	92.4	94.7	95.7	96.7	97.3	97.4	97.5	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	92.4	94.7	95.9	96.9	97.5	97.6	97.7	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	92.7	95.2	96.3	97.3	98.0	98.1	98.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	92.7	95.2	96.6	97.5	98.2	98.3	98.4	98.5	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	92.7	95.3	96.9	97.8	98.5	98.6	98.7	98.8	99.1	99.4	99.5	99.6	99.7	99.7	99.7	99.7
≥ 500	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 400	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 300	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 200	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 100	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0
≥ 0	92.8	95.4	97.0	98.0	98.6	98.7	98.8	98.9	99.2	99.5	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1970-1990

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 2000	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 1800	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
≥ 1600	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 1400	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	56.6
≥ 1200	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 1000	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
≥ 900	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	67.5
≥ 800	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	70.5
≥ 700	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 600	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	74.1
≥ 500	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 450	83.7	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	84.1
≥ 400	86.8	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	87.4
≥ 350	89.7	89.8	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	90.1
≥ 300	89.9	90.5	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	91.1
≥ 250	91.1	91.8	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 200	91.3	92.6	93.3	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
≥ 180	91.3	92.8	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
≥ 150	92.7	93.9	94.6	94.9	95.3	95.3	95.3	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 120	92.6	94.8	95.7	96.1	96.5	96.5	96.5	96.5	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 100	93.3	95.8	96.8	97.3	97.6	97.6	97.6	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 90	93.3	95.9	97.7	97.6	98.0	98.0	98.0	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 80	93.3	96.1	97.7	98.0	98.3	98.3	98.3	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 70	93.3	96.2	97.3	98.2	98.5	98.5	98.5	98.5	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 60	93.3	96.3	97.5	98.5	98.8	98.8	98.8	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 50	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	99.9
≥ 40	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	100.0
≥ 30	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	100.0
≥ 20	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	100.0
≥ 10	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	100.0
≥ 0	93.3	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.5	99.6	99.7	99.7	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	51.1	51.5	51.6	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥20000	57.3	57.8	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥18000	57.5	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥16000	57.5	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥14000	57.7	58.3	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥12000	62.6	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥10000	69.4	69.9	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥9000	70.4	71.0	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥8000	73.5	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥7000	74.2	74.7	74.8	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥6000	75.6	76.1	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥5000	81.5	82.7	82.7	82.2	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥4500	82.7	83.4	83.7	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥4000	86.1	87.0	87.3	87.3	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥3500	87.4	88.6	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥3000	88.0	89.7	90.4	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥2500	88.5	90.2	91.2	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥2000	89.7	90.8	91.9	91.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥1800	89.2	91.3	92.5	92.5	92.5	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1500	90.0	92.2	93.3	93.5	93.5	93.5	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥1200	90.2	92.7	94.4	94.8	94.8	94.8	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥1000	90.6	93.5	95.5	95.9	95.9	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥900	90.9	93.9	95.8	96.5	96.6	96.6	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥800	90.9	94.1	96.7	96.8	96.9	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥700	91.0	94.4	96.3	97.1	97.2	97.2	97.4	97.8	98.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥600	91.2	94.6	96.8	97.5	97.6	97.6	97.8	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥500	91.2	94.7	97.3	98.1	98.3	98.3	98.5	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥400	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥300	91.2	94.8	97.5	98.3	98.5	98.5	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥200	91.2	94.8	97.5	98.3	98.6	98.6	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥100	91.2	94.8	97.5	98.3	98.6	98.6	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥0	91.2	94.8	97.5	98.3	98.6	98.6	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	45.8	45.9	45.9	45.9	45.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥8000	54.7	54.1	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥6000	54.2	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥4000	54.3	54.5	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥2000	55.7	55.1	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥1000	58.7	58.9	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥800	65.5	65.7	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥600	66.7	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥400	69.7	69.9	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥200	70.5	70.7	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥100	71.9	72.1	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥80	76.9	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥60	79.5	79.9	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥40	82.8	83.3	83.5	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥20	84.9	85.6	85.9	86.0	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥10	85.9	86.9	87.3	87.5	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥8	86.9	87.9	88.5	88.6	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥6	88.7	89.3	90.0	90.2	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥4	88.2	89.7	90.4	90.6	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥2	89.3	90.9	91.7	92.1	92.4	92.4	92.5	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1	89.8	91.9	93.1	93.5	93.8	93.9	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥0.8	90.5	92.9	94.3	94.8	95.2	95.2	95.3	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥0.6	90.6	93.1	94.6	95.2	95.6	95.6	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥0.4	90.7	93.3	94.9	95.4	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5
≥0.2	90.9	93.7	95.3	95.9	96.5	96.6	96.7	96.8	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2
≥0.1	91.2	94.2	95.9	96.7	97.3	97.5	97.7	97.8	97.9	98.2	98.2	98.3	98.3	98.3	98.3	98.3
≥0.08	91.3	94.3	96.3	97.1	97.8	98.0	98.3	98.5	98.7	98.9	99.0	99.0	99.0	99.1	99.1	99.1
≥0.06	91.3	94.4	96.4	97.2	98.0	98.2	98.5	98.8	98.9	99.2	99.3	99.3	99.3	99.4	99.4	99.4
≥0.04	91.3	94.4	96.4	97.2	98.0	98.2	98.5	98.8	98.9	99.2	99.3	99.3	99.3	99.4	99.4	99.4
≥0.02	91.3	94.4	96.4	97.2	98.0	98.2	98.5	98.8	98.9	99.2	99.3	99.3	99.3	99.4	99.4	99.4
≥0.01	91.3	94.4	96.4	97.2	98.0	98.2	98.5	98.8	98.9	99.2	99.3	99.3	99.3	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 7990

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

GLOBAL CLIMATOLOGY BRANCH
 USAF/ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755 MALMSTROM AFB MT

74-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1958-1960

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
900	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
800	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
700	68.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
600	71.7	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	71.4	71.4
500	77.5	78.7	78.7	78.0	78.0	78.7	78.7	78.0	78.0	78.0	78.0	79.0	79.0	79.7	78.0	78.0
400	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
300	81.8	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	81.2	81.2
200	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
100	82.4	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
0	86.8	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
1500	88.8	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
1400	92.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
1300	93.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1200	93.9	95.6	95.6	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
1100	94.5	96.6	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	96.7
1000	94.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
900	95.0	97.1	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	97.2
800	95.0	97.1	97.4	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
700	95.3	97.6	97.9	97.9	98.7	98.7	98.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
600	95.8	98.7	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	98.4
500	95.9	98.1	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
400	96.1	98.4	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
300	96.1	98.4	99.1	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
200	96.1	98.4	99.1	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
100	96.2	98.7	99.3	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0	96.2	98.7	99.3	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
1500	96.2	98.9	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
1400	96.2	98.9	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
1300	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
1200	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
1100	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
1000	96.2	98.9	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥0
≥ 1000	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 800	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 600	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
≥ 400	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 200	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	74.9
≥ 100	79.9	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	80.3	80.3
≥ 80	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 60	85.6	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
≥ 40	87.9	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	88.3	88.3
≥ 20	91.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 10	93.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 5	94.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 3	94.8	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	96.0	96.0
≥ 2	94.9	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	96.3	96.3
≥ 1	95.3	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	97.0	97.0
≥ 0.5	95.3	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	97.0	97.0
≥ 0.2	95.7	97.3	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	97.6
≥ 0.1	95.8	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 0.05	95.9	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0.02	96.1	98.2	98.4	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
≥ 0.01	96.3	98.7	98.9	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
≥ 0.005	96.3	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0.002	96.4	98.9	99.2	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
≥ 0.001	96.4	99.2	99.6	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
≥ 0.0005	96.4	99.2	99.6	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
≥ 0.0002	96.4	99.2	99.6	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
≥ 0.0001	96.4	99.2	99.6	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

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAF/ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

6633-7800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO FLOORING	56.3	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
≥ 20000	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 18000	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0
≥ 16000	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0
≥ 14000	64.1	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	64.6
≥ 12000	67.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7
≥ 10000	73.3	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	73.9
≥ 9000	75.2	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.9
≥ 8000	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7
≥ 7000	87.2	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	87.9
≥ 6000	81.4	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	82.0	82.1
≥ 5000	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0
≥ 4500	87.0	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.7
≥ 4000	89.9	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8
≥ 3500	91.9	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0
≥ 3000	91.6	92.6	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	92.8
≥ 2500	92.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6
≥ 2000	93.0	94.0	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
≥ 1800	93.2	94.2	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 1500	94.7	95.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8
≥ 1200	94.2	95.2	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
≥ 1000	94.4	95.4	96.7	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
≥ 900	94.8	95.9	96.4	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1
≥ 800	94.8	95.9	96.4	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2
≥ 700	95.1	96.2	97.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0
≥ 600	95.3	96.7	97.7	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
≥ 500	95.4	97.0	98.0	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 400	95.7	97.2	98.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6
≥ 300	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 200	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 100	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 0	95.7	97.3	98.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

HALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.25	≥.2	≥.15	≥.1	≥.05	≥.0
NO CEILING	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥2000	65.7	65.7	65.7	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
≥1800	65.3	65.3	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
≥1600	65.6	65.6	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
≥1400	67.7	67.7	67.7	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
≥1200	69.3	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	69.4	69.4
≥1000	73.7	73.7	73.7	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
≥900	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥800	77.0	77.0	77.0	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
≥700	77.9	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
≥600	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	79.1	79.1
≥500	83.2	83.2	83.2	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
≥450	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥400	89.7	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥350	91.7	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥300	92.3	92.8	92.8	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
≥250	93.4	94.7	94.2	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
≥200	94.7	94.7	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥180	94.3	95.0	95.2	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
≥150	95.7	95.7	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥120	96.1	96.9	97.7	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
≥100	96.7	97.4	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥90	96.7	97.4	98.7	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥80	97.0	97.8	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥70	97.1	98.7	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥60	97.2	98.1	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
≥50	97.2	98.2	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥40	97.2	98.2	98.9	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥30	97.2	98.3	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥20	97.2	98.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥10	97.2	98.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	97.2	98.3	99.7	99.9	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 900

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1270-1472

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥10000	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥7000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥5000	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
≥4000	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥3000	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	65.9	65.9	65.9
≥2000	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥1800	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	72.3	72.3	72.3
≥1600	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	74.3	74.3	74.3
≥1400	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥1200	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥1000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥900	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	87.4	87.4	87.4
≥800	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥700	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥600	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥500	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥400	97.6	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	98.0	98.0
≥300	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥200	97.9	98.3	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	98.4
≥100	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥90	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥80	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥70	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥60	99.1	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥50	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥40	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥30	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥20	99.2	99.8	99.9	99.9	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 990

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
TIME PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ 0
NO. OF OBS.	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 20000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 18000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000	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	59.9	59.9	59.9
≥ 14000	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	61.3	61.3
≥ 12000	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 10000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 9000	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	70.6
≥ 8000	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	74.6	74.6	74.6
≥ 7000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 6000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 5000	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4
≥ 4500	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4
≥ 4000	94.4	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8
≥ 3500	95.8	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.2
≥ 3000	97.6	97.7	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
≥ 2500	97.9	98.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4
≥ 2000	98.1	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7
≥ 1800	98.1	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7
≥ 1500	98.4	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3
≥ 1200	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 1000	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 900	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 800	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 700	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 600	98.9	99.2	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 500	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	99.0	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755 MALMSTROM AFB MT

74-83

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1970-2000

ELEVATION FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2 9000	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	59.4	59.4
2 8000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2 7000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
2 6000	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
2 5000	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
2 4000	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	72.7	72.7	72.7
2 3000	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
2 2000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2 1000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
2 6000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2 5000	88.7	88.8	88.8	88.9	89.7	89.7	89.7	89.7	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2 4500	92.3	92.6	92.7	92.8	93.1	93.1	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2 4000	94.7	94.9	95.7	95.1	95.4	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2 3500	94.9	95.1	95.3	95.4	95.8	95.8	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2 3000	95.7	96.7	96.3	96.4	96.9	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 2500	96.8	97.1	97.4	97.6	98.4	98.0	98.4	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2 2000	97.1	97.4	97.8	97.9	98.3	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2 1800	97.1	97.4	97.8	97.9	98.3	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2 1500	97.2	97.6	97.9	98.0	98.6	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 1200	97.3	97.8	98.1	98.4	99.1	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
2 1000	97.4	98.0	98.4	98.8	99.8	99.4	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 900	97.4	98.0	98.4	98.9	99.6	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 800	97.4	98.0	98.4	98.9	99.6	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 700	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 600	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 500	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 400	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 300	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 200	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 0	97.6	98.1	98.6	99.0	99.7	99.7	99.7	99.9	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
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0100-2300
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	27	2	24	21	24	24	2	25	24	24
NO. OF HOURS	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	52.7	52.7	52.7
≥ 20000	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
≥ 8000	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
≥ 6000	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
≥ 4000	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	62.1	62.1	62.1
≥ 2000	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000	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	74.2	74.2
≥ 9000	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	75.6
≥ 8000	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	79.1	79.1
≥ 7000	87.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 6000	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	92.1	92.1	92.1
≥ 5000	87.3	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	88.1	88.1
≥ 4500	89.8	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	91.0
≥ 4000	93.1	94.2	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	94.4
≥ 3500	93.7	94.9	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3000	95.2	96.8	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2500	96.7	97.7	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	96.0	98.0	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1800	96.0	98.0	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	96.7	98.0	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	96.1	98.1	98.6	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
≥ 1000	96.3	98.4	98.9	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	96.4	98.6	99.0	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	96.4	98.6	99.0	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.7	98.9	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.7	98.9	99.6	99.6	99.9	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 900

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707756
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	52.6	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	52.7	52.7
900	62.0	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	62.1	62.2
800	62.2	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
700	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	62.6	62.6	62.6
600	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
500	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
400	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
300	74.5	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
200	77.9	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
100	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
800	80.1	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
700	85.9	86.2	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
600	88.6	89.0	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
500	92.0	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8
400	93.3	93.9	94.0	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
300	94.4	95.2	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
200	95.3	96.2	96.4	96.4	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
100	95.7	96.6	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
800	95.8	96.8	96.9	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
700	96.1	97.2	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
600	96.5	97.6	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3
500	96.8	97.9	98.3	98.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
400	96.9	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
300	97.0	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
200	97.1	98.3	98.8	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
100	97.2	98.5	99.0	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
800	97.2	98.6	99.1	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
700	97.2	98.6	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
600	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
500	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	97.2	98.7	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755

MALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-2000

		VISIBILITY - STATUTE MILES															
		20	26	25	24	23	22	22	21	21	20	20	20	20	20	20	20
1	1000	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	74.3	74.3	74.3
2	900	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
3	800	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
4	700	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
5	600	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
6	500	82.7	82.7	82.7	82.0	82.0	82.7	82.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
7	400	89.7	89.7	89.7	89.0	89.0	89.7	89.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
8	300	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	89.2
9	200	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	90.2	90.2
10	100	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	90.8	90.8	90.8
11	0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
12	1000	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
13	900	95.1	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	95.3	95.3
14	800	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
15	700	97.5	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	97.7	97.7
16	600	98.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
17	500	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
18	400	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
19	300	98.5	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	98.8	98.8
20	200	98.5	98.8	99.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
21	100	98.7	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	99.6	99.6
22	0	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
23	1000	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
24	900	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
25	800	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
26	700	98.7	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
27	600	98.8	99.2	99.7	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
28	500	98.8	99.2	99.7	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
29	400	98.8	99.2	99.7	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
30	300	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
31	200	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
32	100	99.7	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
33	0	99.0	99.5	99.9	100.0	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
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

74-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	77.2	76.2	76.7	76.3	77.3	76.3	77.3	76.3	77.3	76.4	77.5	76.5	77.5	76.5	77.5	77.5
2 18000	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1
2 16000	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1
2 14000	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6
2 12000	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4
2 10000	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8
2 9000	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6
2 8000	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9
2 7000	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5
2 6000	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8
2 5000	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0
2 4500	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.4	93.4	93.4	93.5	93.5	93.5
2 4000	94.3	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.3	95.3	95.3	95.4	95.4	95.4
2 3500	95.3	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.3	96.3	96.3	96.5	96.5	96.5
2 3000	95.6	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.6	96.7	96.7	96.7	96.8	96.8	96.8
2 2500	95.7	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.9	96.9	96.9	97.0	97.0	97.0
2 2000	95.9	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.1	97.1	97.1	97.2	97.2	97.2
2 1800	96.2	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.4	97.4	97.4
2 1500	96.7	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8
2 1000	97.1	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.6	98.6	98.6	98.7	98.7	98.7
2 900	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
2 800	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
2 700	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
2 600	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
2 500	97.5	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
2 400	97.6	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
2 300	97.6	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4
2 200	97.6	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4
2 100	97.6	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4
2 "	97.6	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1670-0870
PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	30	26	25	24	23	22	22	22	21	21	20	20	20	20	20	20
1000	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
900	75.8	76.0	76.7	76.0	76.0	76.7	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.0	76.0	76.0
800	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
700	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
600	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
500	87.9	81.1	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
400	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
300	85.7	85.9	86.0	86.0	86.7	86.0	86.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
200	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
100	89.1	89.4	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
5000	90.8	91.0	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
4000	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
3500	92.5	93.0	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
3000	93.4	94.0	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2500	94.2	94.7	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2000	94.7	95.3	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1500	95.2	95.7	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
1000	95.5	96.0	96.1	96.2	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
500	95.5	96.0	96.1	96.2	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
100	95.8	96.5	96.6	96.7	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
5000	96.5	97.2	97.5	98.0	98.7	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
4000	96.8	97.5	97.8	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
3500	96.8	97.6	98.0	98.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
3000	96.9	97.7	98.1	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2500	96.9	97.7	98.1	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2000	97.2	98.1	98.4	98.9	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1500	97.2	98.1	98.4	98.9	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1000	97.2	98.1	98.4	99.0	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
500	97.2	98.1	98.4	99.0	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
100	97.2	98.1	98.4	99.0	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 932

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
NO CEILING	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	71.8	71.8	71.8
≥ 20000	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	78.8	78.8
≥ 18000	79.7	79.7	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
≥ 16000	79.7	79.0	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
≥ 14000	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 10000	85.9	85.9	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	86.6
≥ 9000	86.5	86.5	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	86.6
≥ 8000	89.2	89.2	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	89.4
≥ 7000	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 6000	91.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 5000	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4500	92.6	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	92.7
≥ 4000	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3500	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3000	96.2	96.3	96.6	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
≥ 2500	96.7	97.2	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
≥ 2000	96.7	97.2	97.4	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
≥ 1800	96.9	97.4	97.6	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
≥ 1500	97.4	98.0	98.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	97.6	98.2	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	97.8	98.4	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	97.8	98.4	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	98.3	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	98.3	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	98.4	99.0	99.2	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	98.4	99.0	99.2	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
≥ 400	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.5	99.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.5	99.1	99.4	100.0	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

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATISTICS															
	20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	68.8	68.8	69.8	68.8	69.8	68.3	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
9000	78.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8	79.8	78.8
8000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
7000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
6000	87.2	80.2	80.2	80.2	87.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
5000	82.8	82.8	87.8	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
4000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
3000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2000	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	88.5	88.5
1000	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
900	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
800	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
700	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	93.8	93.8	93.8
600	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
500	97.3	97.5	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	97.7
400	98.1	98.3	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	98.5
300	98.3	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	98.7	98.7
200	98.8	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	99.2	99.2
100	98.8	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	99.2	99.2
90	99.7	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
80	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
70	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
60	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
50	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
40	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
20	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
10	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

MALMSTROM AFB MT

74-83

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	2.0	2.5	3.0	3.4	3.7	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
1000	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
900	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	73.2	73.2
800	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
700	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	73.4	73.4
600	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	74.6	74.6	74.6
500	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
400	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
300	84.1	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
200	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
100	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
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	88.4	88.4
1000	92.6	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	93.7	93.7
900	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	94.3	94.3	94.3
800	97.3	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	97.6
700	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
600	98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
500	98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
400	98.5	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	99.2	99.2
300	98.5	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	99.2	99.2
200	98.5	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	99.2	99.2
100	98.5	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	99.2	99.2
0	98.5	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	99.2	99.2
1000	98.5	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	99.2	99.2
900	98.5	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	99.2	99.2
800	98.5	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	99.2	99.2
700	98.5	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	99.2	99.2
600	98.5	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	99.2	99.2
500	98.6	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	99.6	99.6
400	98.6	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	99.6	99.6
300	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
200	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
100	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

JUL

PERCENTAGE FREQUENCY OF OCCURENCE
 (FROM HOURLY OBSERVATIONS)

1970-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
10000	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
8000	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
6000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
4000	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	70.5
2000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
1000	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
800	84.8	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	85.2	85.2
600	89.7	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	89.4	89.4
400	89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
200	91.6	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	91.0	91.0
100	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	94.0	94.0
80	94.8	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	95.3	95.3
60	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
40	97.6	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	98.5	98.5
20	97.8	98.5	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	98.7
10	98.1	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
8	98.3	99.0	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	99.2
6	98.3	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	99.4	99.4
4	98.3	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2	98.4	99.2	99.2	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
1	98.4	99.2	99.2	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
0.8	98.5	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.6	98.6	99.5	99.5	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
0.4	98.6	99.5	99.5	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
0.2	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.1	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.05	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.02	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.01	98.8	99.7	99.7	100.0	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 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT
STATION STATION NAME

74-83
YEAR

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	20	25	24	23	22	22	21	21	20	20	19	19	18	18	17
NO. OF OBS.	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 20000	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	71.3	71.3
≥ 18000	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	71.5
≥ 15000	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	71.6	71.6
≥ 14000	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
≥ 12000	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	75.6
≥ 10000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 9000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 8000	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	87.8
≥ 7000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 6000	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	90.1	90.1	90.1
≥ 5000	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 4500	95.1	95.1	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	95.2
≥ 4000	96.6	96.6	96.6	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
≥ 3500	97.3	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3000	97.6	97.8	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	98.2
≥ 2500	98.0	98.2	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000	98.3	98.5	98.7	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
≥ 1800	98.4	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500	98.4	98.6	98.9	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
≥ 1200	98.6	98.8	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	98.7	98.9	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	98.7	98.9	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	98.7	98.9	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	98.7	98.9	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.8	99.1	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.8	99.1	99.7	99.9	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
 USAF/ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
MONTHS

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	22	21	21	20	20	19	19	18	18	17
2 8000	67.7	67.7	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
2 7000	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	75.4	75.4
2 6000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2 5000	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
2 4000	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2 3000	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	79.8
2 2000	85.5	85.6	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
2 1000	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3
2 000	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7
2 900	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2 800	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2 700	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2 600	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2
2 500	95.7	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2 400	96.5	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2
2 300	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2 200	97.3	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
2 100	97.5	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
2 000	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
2 900	97.8	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
2 800	98.1	98.6	98.9	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 700	98.2	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
2 600	98.2	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
2 500	98.2	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
2 400	98.3	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
2 300	98.3	98.9	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 200	98.3	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 100	98.4	99.1	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 000	98.5	99.1	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 900	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 800	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 700	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 600	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 500	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 400	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 300	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 200	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 100	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 000	98.5	99.1	99.4	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7490

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1000-2200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	69.6	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	69.7	69.7
≥ 2000	73.8	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	73.9
≥ 1800	73.8	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	73.9
≥ 1600	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
≥ 1400	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 1200	77.0	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	77.1
≥ 1000	81.9	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	82.0	82.0
≥ 900	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	83.0	83.0	83.0
≥ 800	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 700	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	86.8
≥ 600	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	88.1	88.1
≥ 500	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 450	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 400	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 350	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 300	97.2	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	97.6	97.6
≥ 250	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 200	97.4	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	98.0	98.0
≥ 180	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 160	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 140	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 120	98.1	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100	98.1	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 80	98.1	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	99.2	99.2
≥ 70	98.1	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	99.2	99.2
≥ 60	98.1	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	99.2	99.2
≥ 50	98.1	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	99.2	99.2
≥ 40	98.5	99.7	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	99.8
≥ 30	98.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20	98.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 10	98.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1300-2500
TIME PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.2	≥0.15	≥0.1	≥0.05
≥20000	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥18000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥16000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥14000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥12000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥10000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥9000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥8000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥7000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥6000	86.9	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥5000	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥4500	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥4000	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥3500	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥3000	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥2500	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥2000	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥1800	97.2	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥1600	97.2	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥1400	97.2	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥1200	97.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥1000	97.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥900	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥800	97.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥700	97.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥600	97.3	98.3	98.7	98.8	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥500	97.3	98.5	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥400	97.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥300	97.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥200	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥50	97.3	98.6	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 932

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

727755

MALMSTROM AFB MT

74-83

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1600-0900

CEILING FEET	VISIBILITY - STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
800	68.0	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	68.3	68.3
600	68.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
400	68.7	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
200	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
100	74.4	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
80	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
60	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	82.0	82.0
40	84.5	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	84.8	84.8
20	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
10	88.7	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	88.3	88.3
500	91.2	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	91.5	91.5
400	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	92.6	92.6
300	93.4	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	93.8	93.8
200	94.4	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
100	95.4	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
80	96.1	96.6	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
60	96.6	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
40	96.6	97.2	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
20	96.6	97.2	97.6	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
10	96.9	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
500	97.3	98.0	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
400	97.3	98.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
300	97.5	98.3	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	99.0
200	97.6	98.4	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
80	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
60	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
40	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
20	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
10	97.6	98.6	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

920-1122
DATE

ELEVATION FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
≥10000	64.1	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
≥9000	70.1	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
≥8000	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
≥7000	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	70.8
≥6000	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
≥5000	75.8	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	76.1	76.1
≥4000	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	81.6	81.6
≥3000	82.3	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	82.6
≥2000	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
≥1000	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	86.8
≥800	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥700	89.4	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	89.7	89.7
≥600	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥500	92.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥400	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	93.2	93.2
≥300	93.8	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥200	94.2	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥100	95.3	95.8	96.0	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥80	95.8	96.3	96.6	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
≥70	96.5	97.0	97.3	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
≥60	97.1	97.8	98.0	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥50	97.1	98.0	98.3	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
≥40	97.4	98.3	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥30	97.7	98.7	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥20	97.8	98.8	99.1	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
≥10	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥5	97.8	98.8	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥2	97.8	98.8	99.1	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1	97.8	98.8	99.1	99.5	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
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755

MALMSTROM AFB MT

74-87

AUG

PERCENTAGE FREQUENCY OF OCCURENCE
 (FROM HOURLY OBSERVATIONS)

1710-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥10000	67.7	60.3	67.3	67.3	67.3	60.3	67.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥18000	67.8	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	68.2	68.2
≥16000	68.0	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	68.3	68.3
≥14000	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	70.3	70.3
≥12000	73.7	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	74.0	74.0
≥10000	78.6	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
≥9000	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥8000	82.5	82.8	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
≥7000	82.8	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥6000	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	84.3
≥5000	86.9	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥4500	89.1	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥4000	92.6	92.9	92.9	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
≥3500	93.4	93.8	93.8	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
≥3000	94.6	94.9	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥2500	95.3	95.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥2000	95.8	96.2	96.3	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
≥1500	96.1	96.6	96.7	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
≥1000	96.5	97.0	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥700	96.6	97.4	97.6	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥500	96.8	97.7	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥300	96.8	97.7	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥200	97.0	98.1	98.4	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥100	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥50	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥30	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥20	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥10	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥5	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥3	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥2	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥1	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥0	97.3	98.4	98.7	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 930

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

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
≥20000	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
≥18000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥16000	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	67.3
≥14000	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥12000	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	68.8	68.8	68.8
≥10000	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	72.7	72.7	72.7
≥9000	80.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥8000	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	81.0	81.0	81.0
≥7000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥6000	84.1	84.1	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
≥5000	85.4	85.4	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
≥4500	91.1	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥4000	93.4	93.5	93.7	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
≥3500	94.7	94.8	95.1	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥3000	95.9	96.0	96.7	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥2500	96.2	96.5	96.7	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
≥2000	96.9	97.2	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
≥1800	97.2	97.5	97.7	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
≥1600	97.3	97.8	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥1400	97.5	98.2	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1200	97.5	98.3	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1000	97.5	98.3	98.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥900	97.7	98.5	98.8	99.1	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	97.7	98.6	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥700	97.7	98.6	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥600	97.7	98.6	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥500	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥200	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0	97.8	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

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

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1970-2000
PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	20	≥5	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2 20000	65.9	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2 18000	66.5	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
2 16000	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
2 14000	67.8	68.0	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
2 12000	72.8	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	73.0
2 10000	81.1	81.3	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
2 9000	81.7	81.9	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	82.0
2 8000	84.4	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	84.8
2 7000	85.3	85.6	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
2 6000	87.6	88.0	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	88.1
2 5000	92.9	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2 4500	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2 4000	95.8	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 3500	97.1	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2 3000	97.3	97.7	98.0	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2 2500	97.8	98.3	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 2000	98.0	98.4	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 1800	98.3	98.7	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 1600	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 1400	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 1200	98.4	98.8	99.0	99.2	99.2	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 1000	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 900	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 800	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 700	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 600	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 500	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 400	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 300	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 200	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	98.4	98.8	99.0	99.5	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 000	98.4	98.8	99.0	99.5	99.6	99.7	99.8	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
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥2000	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	
2000	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	
≥1800	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	
1800	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	
≥1600	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	
1600	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	
≥1400	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	82.6	
1400	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	
≥1200	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	85.6	85.6	
1200	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	86.6	86.6	
≥1000	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	88.4	88.4	
1000	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	92.6	92.6	
≥800	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	94.1	94.1	
800	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	
≥600	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
600	97.2	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
≥400	97.4	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
400	97.7	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	
≥200	98.3	98.8	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
200	98.1	98.9	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
≥100	98.1	98.9	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
100	98.1	98.9	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
≥50	98.1	98.9	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
50	98.1	98.9	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
≥30	98.2	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
30	98.2	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
≥20	98.2	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
20	98.2	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
≥10	98.2	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
10	98.2	99.0	99.9	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 932

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0
≥10000	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥8000	69.7	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	69.9
≥6000	70.2	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
≥4000	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4
≥2000	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2
≥1000	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥800	82.2	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	82.4
≥600	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	84.9	84.9	84.9
≥500	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥400	87.1	87.3	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	87.4
≥300	91.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4
≥200	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥100	94.5	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥80	95.5	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥60	96.0	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥40	96.5	96.9	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
≥30	96.9	97.4	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥20	97.0	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	98.0	98.0
≥15	97.3	98.0	98.2	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
≥10	97.5	98.2	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥8	97.6	98.4	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥6	97.7	98.5	98.8	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥4	97.8	98.6	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥3	97.8	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥2	97.8	98.8	99.2	99.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥1	97.9	98.8	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥0.75	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥0.5	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥0.25	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥0.1	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥0	97.9	98.9	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-83

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0000

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	21	24	21	22	24	21	24	21	24	21	24	21	24	24
2 10000	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	70.3	70.3	70.3
2 9000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
2 8000	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	74.6	74.6	74.6
2 7000	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	74.6	74.6	74.6
2 6000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2 5000	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	79.1	79.1
2 4000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2 3000	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
2 2000	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	85.6	85.6	85.6
2 1000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2 000	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	86.3	86.3	86.3
1 900	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	89.7	89.7	89.7
1 800	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1 700	91.8	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	91.9	91.9
1 600	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
1 500	93.4	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
1 400	94.9	95.6	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	95.8
1 300	95.7	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
1 200	95.1	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1 100	95.1	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
1 000	95.1	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
900	95.3	96.1	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	97.0
800	95.4	96.2	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	97.2
700	95.4	96.2	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	97.2
600	95.9	96.8	97.8	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
500	95.9	97.0	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
400	96.7	97.3	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
300	96.0	97.3	98.4	98.6	99.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
200	96.0	97.3	98.6	98.7	99.3	99.3	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
100	96.7	97.3	98.6	98.7	99.3	99.3	99.6	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
0	96.7	97.3	98.6	98.7	99.3	99.3	99.6	99.7	99.7	99.7	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

727755

MALMSTROM AFB MT

74-37

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	22	21	21	20	20	19	19	18	18	17
1000	69.3	69.3	69.3	69.3	69.3	69.3	69.7	69.7	69.7	69.3	69.3	69.3	69.7	69.7	69.7	69.3
900	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	72.1
800	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	72.1
700	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	72.3	72.3	72.3
600	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	75.4	75.4
500	80.7	80.0	80.0	80.0	80.0	80.7	80.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1
400	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	81.0	81.0
300	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7
200	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	84.4	84.4
100	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	85.2	85.3	85.3
0	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	88.4	88.6	88.6
1000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.4	89.4
900	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8
800	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9
700	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1
600	92.9	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	93.9	93.9
500	93.6	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9
400	93.6	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1
300	94.7	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.8	95.8
200	94.8	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7
100	94.9	96.6	96.8	96.8	96.8	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.1	97.1
0	95.1	96.8	97.0	97.0	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3
1000	95.1	96.9	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.7	97.7
900	95.3	97.1	97.8	97.8	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1
800	95.3	97.4	98.1	98.1	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4
700	95.3	97.4	98.1	98.1	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4
600	95.3	97.4	98.2	98.3	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
500	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
400	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
300	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
200	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
100	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
0	95.3	97.4	98.3	98.4	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 990

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

MALMSTROM AFB MT

74-97

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

1600-0800

CEILING FEET	200	26	21	24	21	22	21	21	21	21	21	21	21	21	21	21
1000	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	61.7	61.7	61.7
900	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	67.2	67.2	67.2
800	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	67.3	67.3
700	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	67.4	67.4
600	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	68.3	68.3
500	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	72.8	72.8	72.8
400	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7
300	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4
200	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	82.7	82.7	82.7
100	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.4	83.4	83.4
0	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	84.6	84.6	84.6
1000	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	88.0	88.0	88.0
900	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.2	89.2	89.2
800	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.6	90.6	90.6
700	91.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.0
600	91.6	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.6	92.6	92.6
500	92.4	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.6	93.6	93.6
400	93.2	94.7	94.9	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.4	95.4
300	93.6	95.1	95.4	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.0
200	94.2	95.9	96.2	96.3	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.9	96.9	96.9
100	94.3	96.0	96.6	96.8	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.4
0	94.4	96.1	96.8	97.2	97.3	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.9	97.9	97.9
1000	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
900	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
800	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
700	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
600	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
500	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
400	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
300	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
200	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
100	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
0	94.6	96.3	97.0	97.4	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
1000	94.7	97.0	97.7	98.1	98.2	98.3	98.6	98.7	98.8	98.8	98.8	98.8	98.8	99.0	99.0	99.0
900	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
800	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
700	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
600	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
500	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
400	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
300	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
200	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
100	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4
0	94.8	97.1	97.8	98.4	98.6	98.7	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1990-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	270	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	63.7	63.0	63.7	63.0	63.7	63.0	63.7	63.0	63.7	63.0	63.7	63.0	63.7	63.0	63.7	63.0
900	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
800	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	69.9	69.9
700	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
600	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	71.9
500	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	75.6
400	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	80.4	80.4
300	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	81.4	81.4
200	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	84.1	84.1
100	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	85.4
800	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
700	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	88.6	88.6
600	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
500	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
400	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
300	92.2	92.2	92.3	92.4	92.6	92.6	92.6	92.7	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9
200	93.1	93.2	93.3	93.7	93.8	93.8	93.8	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1
100	93.8	94.1	94.2	94.6	94.8	94.8	94.8	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1
800	94.1	94.4	94.6	94.9	95.1	95.1	95.1	95.2	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4
700	95.7	96.0	96.1	96.4	96.9	96.9	96.9	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2
600	95.2	96.4	96.6	97.0	97.4	97.4	97.4	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8
500	95.6	97.3	97.1	97.7	98.1	98.1	98.1	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4
400	95.7	97.3	97.4	98.0	98.4	98.4	98.4	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8
300	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
200	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
100	95.8	97.4	97.6	98.1	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
800	95.9	97.6	97.7	98.2	98.7	98.7	98.7	98.9	98.9	99.0	99.1	99.2	99.2	99.3	99.3	99.3
700	96.0	97.8	97.9	98.4	98.9	98.9	98.9	99.0	99.0	99.4	99.4	99.6	99.6	99.8	99.8	99.8
600	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9
500	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9
400	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9
300	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9
200	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9
100	96.0	97.9	98.0	98.6	99.0	99.0	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1270-1470
COORDINATES

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	22	21	21	20	20	19	19	18	18	17
≥10000	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	67.1
2 20000	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	69.1
2 18000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2 16000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
2 14000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
2 12000	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	74.3	74.3	74.3
2 10000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 9000	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	80.7	80.7	80.7
2 8400	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2 7800	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2 6000	85.0	85.3	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
2 5000	87.6	88.7	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	88.1
2 4500	89.2	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2 4000	90.8	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2 3500	91.8	92.2	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2 3000	92.2	92.8	92.9	93.2	93.2	93.2	93.2	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2 2500	94.7	94.7	94.8	94.9	94.9	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2 2000	95.1	95.8	96.0	96.3	96.3	96.6	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 1800	95.1	95.8	96.0	96.3	96.3	96.6	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 1600	95.4	96.1	96.3	96.7	96.7	96.9	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 1400	96.1	96.8	97.1	97.3	97.3	97.7	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
2 1200	96.3	97.4	97.7	98.1	98.2	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 900	96.9	98.0	98.2	98.7	98.8	99.1	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
2 800	97.2	98.3	98.6	99.0	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 700	97.2	98.3	98.6	99.0	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 600	97.2	98.4	98.7	99.1	99.2	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 500	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 400	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 300	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 200	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	97.3	98.6	98.9	99.3	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512	
UNLIMITED	58.7	58.0	58.7	58.0	58.0	58.7	58.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 20000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 18000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 15000	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	69.7	69.7	69.7	69.7
≥ 14000	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 12000	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 10000	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	79.1	79.1	79.1
≥ 9000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000	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	82.8	82.8
≥ 7000	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 6000	85.4	85.1	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	85.2
≥ 5000	88.6	88.7	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	88.8
≥ 4500	90.3	90.4	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	90.7	90.7
≥ 4000	92.2	92.3	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	92.7
≥ 3500	93.2	93.3	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	93.7
≥ 3000	93.9	94.0	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2500	95.8	95.9	96.1	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	96.4
≥ 2000	96.2	96.3	96.6	96.8	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
≥ 1800	96.6	96.7	96.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1600	97.3	97.4	97.7	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1400	97.6	97.7	97.9	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	98.2	98.3	98.6	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.4	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.4	98.6	98.8	99.4	99.8	99.9	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 900

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1977-2000
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥2000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥1800	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥1600	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	71.4	71.4	71.4
≥1400	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	72.2
≥1200	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥1000	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	78.6	78.6
≥900	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥800	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥700	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	84.1	84.1
≥600	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥500	90.1	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	90.2
≥450	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥400	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥350	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	93.1	93.1	93.1
≥300	93.4	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
≥250	95.0	95.2	95.2	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
≥200	95.8	96.3	96.3	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
≥180	95.8	96.3	96.3	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
≥160	96.6	97.1	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	97.2
≥140	97.1	97.7	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥120	97.1	97.8	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥100	97.4	98.3	99.0	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
≥80	97.6	98.4	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥70	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥60	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥50	97.7	98.6	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥40	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥30	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥20	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥10	97.7	98.6	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

VISIBILITY STATES	VISIBILITY STATES (MILES)															
	20	20	25	24	24	22	21	2	24	21	24	24	2	25/0	24	24
60	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
70	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	73.7	73.7	73.7
80	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	74.1
90	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	74.1
100	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	74.7
120	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	77.2	77.2
140	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	81.2	81.2	81.2
160	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	82.4	82.4
180	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	84.2	84.2	84.2
200	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
250	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	85.4
300	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	89.7	89.7	89.7
400	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	90.1	90.1	90.1
500	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
600	92.3	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	92.7	92.7
800	92.9	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	93.4	93.4
1000	93.8	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1200	95.2	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1400	95.4	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1600	95.7	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
1800	95.8	96.9	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	97.1
2000	96.0	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	97.6	97.6
2500	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
3000	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
4000	96.4	97.9	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	98.4
5000	96.6	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
6000	96.7	98.2	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	98.8
8000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
10000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
12000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
14000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
16000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
18000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
20000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
25000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
30000	96.7	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 900

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
MONTHS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.01
≥ INFINITE	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
≥ 2500	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	70.6
≥ 2000	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	71.0	71.0	71.0
≥ 1800	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 1600	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	72.0	72.0	72.0
≥ 1400	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 1200	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 1000	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	81.0	81.0	81.0
≥ 800	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 700	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 600	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 500	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	88.8	88.8
≥ 4500	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	90.1	90.1	90.1
≥ 4000	91.3	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3500	92.3	92.5	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	92.6
≥ 3000	92.8	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500	94.7	94.5	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000	94.7	95.4	95.6	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0
≥ 1800	94.9	95.6	95.8	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1600	95.3	96.2	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1400	95.7	96.7	96.9	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5
≥ 1200	95.9	97.1	97.4	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.1	98.1
≥ 1000	96.2	97.4	97.8	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5
≥ 800	96.3	97.5	98.0	98.2	98.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	96.4	97.7	98.2	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	99.0	99.0	99.0
≥ 600	96.4	97.8	98.3	98.6	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2
≥ 500	96.5	97.9	98.4	98.7	98.9	99.0	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	96.5	97.9	98.5	98.8	99.1	99.2	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	96.5	97.9	98.5	98.9	99.2	99.3	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8
≥ 200	96.5	98.0	98.6	99.0	99.3	99.4	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9
≥ 100	96.5	98.0	98.6	99.0	99.3	99.4	99.5	99.6	99.6	99.6	99.8	99.8	99.9	100.0	100.0	100.0
≥ 0	96.5	98.0	98.6	99.0	99.3	99.4	99.5	99.6	99.6	99.6	99.8	99.8	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755

MALMSTROM AFB MT

74-83

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

100-000

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	20	25	24	23	22.5	22	21.5	21	20.5	20	19.5	19	18.5	18	17.5
NO CEILING	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.6	67.7	67.7	67.7	67.7	67.7	67.8
≥20000	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.2
≥18000	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.2
≥16000	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.5	73.7	73.7	73.7	73.7	73.7	73.8
≥14000	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.3
≥12000	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.4	77.5	77.5	77.5	77.5	77.5	77.6
≥10000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.9
≥9000	81.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.7	82.8	82.8	82.8	82.8	82.9
≥8000	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.7	84.8	84.8	84.8	84.8	84.8	84.9
≥7000	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1	85.4	85.5	85.5	85.5	85.5	85.5	85.6
≥6000	84.8	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.8	85.9	85.9	85.9	85.9	85.9	86.0
≥5000	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	88.1	88.2	88.2	88.2	88.2	88.2	88.3
≥4500	88.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.8	89.9	89.9	89.9	89.9	89.9	90.0
≥4000	89.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.9	91.0	91.0	91.0	91.0	91.0	91.1
≥3500	90.5	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.8
≥3000	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.7	91.8	91.8	91.8	91.8	91.8	91.9
≥2500	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.8
≥2000	91.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.5	93.7	93.7	93.7	93.7	93.7	93.8
≥1800	91.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.7	93.8	93.8	93.8	93.8	93.8	93.9
≥1600	92.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.5
≥1400	93.1	94.8	94.9	95.4	95.5	95.5	95.5	95.5	95.6	95.9	96.0	96.0	96.0	96.0	96.0	96.1
≥1200	93.5	95.3	95.5	96.0	96.1	96.1	96.1	96.1	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.8
≥1000	93.5	95.3	95.5	96.0	96.1	96.1	96.1	96.1	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.8
≥900	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥800	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥700	93.5	95.3	95.6	96.1	96.5	96.5	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.1
≥600	93.5	95.3	95.6	96.2	96.7	96.8	96.8	97.0	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.6
≥500	93.5	95.3	95.6	96.3	96.9	97.0	97.0	97.5	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.2
≥400	93.7	95.4	95.7	96.5	97.0	97.1	97.2	97.8	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.5
≥300	93.7	95.5	95.8	96.6	97.5	97.6	97.8	98.5	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.2
≥200	93.7	95.5	96.0	96.8	97.8	98.0	98.2	98.8	98.9	99.4	99.5	99.5	99.6	99.6	99.7	99.9
≥100	93.7	95.5	96.0	96.8	97.8	98.0	98.3	98.9	99.0	99.5	99.6	99.6	99.7	99.7	99.8	100.0
≥0	93.7	95.5	96.0	96.8	97.8	98.0	98.3	98.9	99.0	99.5	99.6	99.6	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .00	≥ .00
20000	65.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.6
18000	72.5	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.3
16000	72.9	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.7	73.8
14000	73.7	74.0	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.5
12000	76.1	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9	76.9	77.0
10000	81.1	81.4	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.9
9000	82.2	82.5	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9	83.0
8000	83.9	84.3	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.8
7000	84.7	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.7
6000	85.4	85.9	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.5
5000	87.5	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.8
4500	88.1	88.8	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.4
4000	89.8	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.1
3500	90.0	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.4
3000	90.3	91.3	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.9
2500	90.6	91.8	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.5
2000	90.9	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.2
1800	91.0	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.2
1600	91.0	92.5	92.7	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4	93.5
1400	91.5	93.2	93.4	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.4
1200	92.2	94.1	94.3	94.8	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.5
1000	92.3	94.2	94.5	95.1	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.8	95.8	95.9
900	92.4	94.3	94.8	95.4	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.2	96.2	96.3
800	92.4	94.3	95.3	95.9	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	97.0	97.0	97.1
700	92.5	94.5	95.5	96.1	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.5	97.5	97.6	97.6	97.8
600	92.5	94.5	95.5	96.1	97.2	97.2	97.2	97.2	97.7	97.7	97.8	97.8	97.8	97.8	98.0	98.2
500	92.5	94.8	95.9	96.8	98.0	98.0	98.0	98.2	98.7	98.7	98.8	98.8	98.8	98.9	99.0	99.2
400	92.5	94.8	95.9	96.8	98.1	98.1	98.3	98.3	98.8	98.8	98.9	98.9	98.9	99.0	99.1	99.2
300	92.5	94.8	95.9	96.8	98.1	98.1	98.3	98.3	98.9	98.9	99.0	99.0	99.0	99.1	99.2	99.4
200	92.5	94.8	95.9	96.8	98.1	98.1	98.3	98.3	98.9	98.9	99.1	99.1	99.1	99.2	99.4	99.5
100	92.5	94.8	95.9	96.8	98.1	98.1	98.3	98.3	98.9	98.9	99.1	99.1	99.1	99.2	99.4	99.5
0	92.5	94.8	95.9	96.8	98.1	98.1	98.3	98.3	98.9	98.9	99.1	99.1	99.1	99.2	99.4	99.5

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 1044 10-54 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-83
 YEAR

OCT
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

677-0900
 HOURS

ELEVATION FEET	VISIBILITY - STATUTE MILES																		
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0	≥0			
≥10000	61.1	61.2	61.2	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.9	62.2	
≥8000	67.5	67.6	67.6	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.3	68.5	68.7	
≥6000	67.6	67.7	67.7	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.4	68.6	68.9	
≥4000	68.1	68.2	68.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.8	69.0	69.2	
≥2000	68.9	68.9	68.9	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.6	69.8	70.0	
≥1000	71.2	71.4	71.4	71.6	71.8	71.8	71.9	71.8	71.8	71.8	71.9	71.9	71.9	71.9	72.0	72.2	72.4	72.6	
≥800	76.7	76.9	76.9	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.5	77.6	77.8	78.1	
≥600	77.6	77.8	77.8	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.5	78.6	78.8	79.0	
≥4500	81.2	81.5	81.5	81.7	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.2	82.3	82.5	82.7	
≥4000	82.7	83.0	83.0	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.7	83.8	84.0	84.2	
≥3000	83.5	83.9	84.0	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.6	84.7	84.9	85.2	
≥2500	86.3	86.7	87.0	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.7	87.8	88.1	88.3	
≥2000	87.3	87.6	88.0	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.8	89.0	89.2	
≥1500	88.0	88.4	88.7	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.7	89.8	90.0	90.2	
≥1000	88.9	89.4	89.7	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.6	90.8	91.0	91.2	
≥800	89.5	90.1	90.4	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.4	91.5	91.6	91.8	92.0
≥700	90.1	90.8	91.1	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	92.0	92.2	92.3	92.5	92.7
≥600	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥500	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥400	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥300	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥200	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥100	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥50	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2
≥0	90.2	91.2	91.5	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.6	92.7	92.8	93.0	93.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1990-1100
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.2	57.2	57.2	57.2	57.2	57.2
≥ 20000	66.7	66.0	66.7	66.0	66.0	66.0	66.7	66.0	66.0	66.0	66.2	66.2	66.2	66.2	66.2	66.2
≥ 18000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 16000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 14000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 12000	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 10000	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 9000	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 8000	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 7000	83.5	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 6000	84.8	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 5000	86.8	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4500	87.1	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 4000	88.6	88.8	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 3500	89.1	89.4	89.6	89.7	89.8	89.8	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000	90.7	90.3	91.5	91.6	91.8	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	91.2	90.6	91.7	91.1	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 2000	90.9	91.5	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1800	91.7	91.5	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1500	91.0	92.2	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1200	91.6	92.9	94.1	94.2	94.4	94.4	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1000	91.8	93.7	95.1	95.4	95.7	95.7	95.9	96.0	96.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	91.8	93.7	95.1	95.5	95.8	95.8	96.1	96.1	96.1	96.3	96.6	96.6	96.6	96.6	96.6	96.6
≥ 800	92.0	94.0	95.4	95.8	96.1	96.1	96.3	96.5	96.5	96.7	96.9	96.9	96.9	96.9	96.9	96.9
≥ 700	92.2	94.2	95.6	96.0	96.3	96.3	96.6	96.7	96.7	97.0	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	92.4	94.4	95.8	96.2	96.6	96.6	96.9	97.1	97.2	97.5	97.7	97.7	97.7	97.7	97.7	97.7
≥ 500	92.4	94.4	95.8	96.2	96.6	96.6	96.9	97.2	97.4	98.0	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	92.4	94.5	96.1	96.6	96.9	96.9	97.3	97.6	98.1	98.5	98.7	98.7	98.8	98.8	98.8	98.8
≥ 300	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.3	98.9	99.1	99.1	99.2	99.4	99.5	99.5
≥ 200	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.1	99.4	99.4	99.5	99.6	99.7	99.7
≥ 100	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.2	99.5	99.5	99.7	99.8	100.0	100.0
≥ 0	92.4	94.5	96.1	96.6	97.1	97.2	97.6	98.0	98.5	99.2	99.5	99.5	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1300-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	2.0	2.6	3.1	3.4	3.7	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
2 1000	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2 800	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	65.4
2 600	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2 400	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	66.7
2 300	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2 200	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
2 1500	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	78.1
2 1000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 800	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	82.6	82.6
2 700	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	83.3	83.3
2 600	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	84.5	84.5
2 500	86.2	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	86.5	86.5
2 450	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	87.6	87.6	87.6
2 400	89.1	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
2 350	89.5	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	90.1	90.1
2 300	90.9	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2 250	91.4	92.2	92.3	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
2 200	92.3	93.3	93.5	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2 1800	92.5	93.7	93.9	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2 1500	93.8	95.3	95.5	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
2 1200	93.9	95.4	95.7	96.0	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2 1000	94.3	95.9	96.2	96.7	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2 900	94.4	96.1	96.5	96.9	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2 800	94.4	96.2	96.6	97.0	97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
2 700	94.4	96.5	96.8	97.2	97.4	97.6	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 600	94.5	96.7	97.1	97.6	97.8	98.1	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2 500	94.5	96.7	97.2	98.1	98.3	98.5	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2 400	94.5	96.7	97.2	98.1	98.3	98.6	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 300	94.5	96.7	97.2	98.1	98.3	98.6	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 200	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 00	94.5	96.7	97.2	98.1	98.4	98.7	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755

MALMSTROM AFB MT

74-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2 3000	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2 2500	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2 2000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2 1500	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	66.3	66.3	66.3
2 1000	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	68.6
2 900	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	72.6	72.6	72.6
2 800	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
2 700	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 600	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2 500	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2 400	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2 300	86.5	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	86.6	86.6
2 200	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	87.8	87.8	87.8
2 1500	97.3	90.6	97.6	90.6	90.6	90.6	90.6	97.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2 1400	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2 1300	93.1	93.7	93.7	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
2 1200	93.7	94.2	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2 1100	94.7	95.5	95.5	95.7	95.7	95.8	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2 1000	94.8	95.6	95.6	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2 900	95.5	96.2	96.2	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 800	95.5	96.2	96.2	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 700	95.5	96.2	96.2	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
2 600	95.8	96.7	96.7	96.9	96.9	97.7	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2 500	96.0	97.0	97.0	97.2	97.2	97.3	97.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2 400	96.0	97.0	97.0	97.2	97.2	97.3	97.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2 300	96.1	97.1	97.1	97.3	97.3	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
2 200	96.1	97.3	97.3	97.5	97.5	97.6	98.2	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
2 1500	96.0	97.5	97.6	97.8	98.0	98.1	98.6	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2 1400	96.0	97.5	97.6	98.1	98.2	98.3	98.8	98.8	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5
2 1300	96.0	97.5	97.7	98.2	98.3	98.4	98.4	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2 1200	96.1	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
2 1100	96.1	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0
2 1000	96.0	97.5	97.7	98.2	98.3	98.4	98.9	99.2	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOPAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

0CT

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1973-2000

ELEVATION FEET	VISIBILITY STATUTE MILES														
	2.0	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3
0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
100	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
200	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
300	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
400	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
500	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
600	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
700	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
800	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	85.2	85.2
900	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
1000	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	87.2	87.2
1100	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	88.8	88.8
1200	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
1300	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	91.1	91.1
1400	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
1500	92.5	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	92.7
1600	93.1	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
1700	94.0	94.8	94.8	94.9	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
1800	94.3	95.3	95.3	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
1900	94.6	95.7	95.7	95.9	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2000	94.7	96.0	96.0	96.2	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2100	95.2	96.5	96.5	96.7	96.7	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2200	95.2	96.5	96.5	96.7	96.7	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2300	95.3	96.9	96.9	97.1	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2400	95.4	97.1	97.2	97.4	97.5	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2500	95.5	97.3	97.4	97.6	97.7	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
2600	95.5	97.3	97.4	97.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2700	95.5	97.3	97.4	97.8	98.4	98.7	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.6	99.6
2800	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.7	99.8	99.9	99.9	100.0	100.0
2900	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.7	99.8	99.9	99.9	100.0	100.0
3000	95.5	97.3	97.4	97.8	98.5	98.8	99.5	99.5	99.5	99.7	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

77755
SECTION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2100
TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	63.4	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥9000	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥8000	69.7	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥7000	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥6000	70.9	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥5000	75.3	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥4000	81.2	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥3000	83.1	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥2000	84.8	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥1800	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥1600	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥1400	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥1200	88.8	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥1000	97.4	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥900	91.5	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥800	92.6	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥700	93.1	93.5	93.5	93.5	93.7	93.7	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥600	93.7	94.4	94.4	94.4	94.6	94.6	94.7	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥500	93.7	94.6	94.6	94.6	94.8	94.8	94.9	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥400	94.1	95.3	95.3	95.3	95.5	95.5	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥300	94.3	95.5	95.5	95.5	95.7	95.7	95.8	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥200	94.6	96.1	96.1	96.1	96.5	96.5	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥100	94.6	96.1	96.1	96.1	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥80	94.6	96.1	96.1	96.1	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥70	94.6	96.2	96.2	96.2	96.9	96.9	97.0	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥60	94.9	96.6	96.6	96.7	97.3	97.3	97.4	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥50	94.9	96.6	96.6	96.7	97.3	97.3	97.5	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥40	94.9	96.6	96.6	96.7	97.3	97.3	97.6	98.2	98.2	98.5	98.5	98.7	98.7	98.7	98.7	98.7
≥30	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.7	98.8	99.2	99.2	99.6	99.6	99.7	99.7	99.7
≥20	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.7	98.8	99.4	99.4	99.7	99.7	99.7	99.8	99.8
≥10	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.8	99.0	99.6	99.6	99.9	99.9	100.0	100.0	100.0
≥0	94.9	96.8	96.8	96.9	97.8	97.8	98.2	98.8	99.0	99.6	99.6	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
8000	67.3	67.4	67.4	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
7000	67.9	68.7	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
6000	68.2	68.3	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
5000	68.6	68.7	68.9	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
4500	70.2	70.3	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
4000	73.9	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
3500	79.6	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
3000	80.8	80.9	80.9	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
2500	83.4	83.6	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
2000	84.3	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1800	85.2	85.4	85.5	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
1600	87.2	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
1450	88.1	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
1300	89.6	90.0	90.1	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
1150	90.4	90.8	90.9	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
1000	91.2	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
900	91.7	92.4	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
800	92.3	93.3	93.4	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
750	92.4	93.4	93.6	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
700	92.8	94.0	94.3	94.5	94.6	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
650	93.2	94.5	94.8	95.1	95.3	95.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
600	93.6	95.1	95.4	95.7	96.0	96.0	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
550	93.7	95.2	95.5	95.9	96.2	96.3	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
500	93.7	95.3	95.7	96.0	96.4	96.5	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
450	93.8	95.5	95.9	96.3	96.7	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
400	93.9	95.6	96.1	96.6	97.0	97.1	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
350	93.9	95.7	96.2	96.7	97.2	97.3	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
300	93.9	95.8	96.4	96.9	97.5	97.6	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
250	93.9	95.8	96.5	97.0	97.7	97.8	97.9	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
200	93.9	95.8	96.5	97.0	97.8	97.9	98.3	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
150	93.9	95.8	96.5	97.0	97.8	97.9	98.3	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
100	93.9	95.8	96.5	97.0	97.8	97.9	98.3	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 7480

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-87
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	57.3	57.4	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.1
≥ 2000	63.8	63.9	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.7
≥ 1800	64.1	64.2	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0
≥ 1500	64.7	64.3	64.6	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.1
≥ 1400	66.2	66.3	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.1
≥ 1200	68.4	68.6	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.3
≥ 1000	76.7	76.2	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9	76.9	77.0
≥ 900	76.9	77.1	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.9
≥ 800	78.8	79.0	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.8
≥ 700	79.9	80.2	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	81.0
≥ 600	87.3	80.7	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.4
≥ 500	81.7	82.2	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.0	83.0	83.1
≥ 450	82.4	83.1	83.3	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0	84.0	84.1
≥ 400	85.1	86.2	86.4	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.1	87.1	87.2
≥ 350	85.7	86.9	87.1	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.8	87.8	87.9
≥ 300	86.7	88.2	88.6	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.3	89.3	89.4
≥ 250	86.9	88.8	89.1	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.9	89.9	90.0
≥ 200	87.4	89.8	90.2	90.6	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.6	91.6	91.7
≥ 180	87.8	90.2	90.7	91.0	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.1
≥ 150	88.1	90.6	91.1	91.9	92.7	92.8	93.6	93.9	93.9	94.0	94.0	94.0	94.0	94.2	94.2	94.3
≥ 100	88.1	90.8	91.3	92.1	92.9	93.7	94.6	95.3	95.4	95.7	95.9	95.9	95.9	96.2	96.2	96.3
≥ 90	88.4	91.1	91.7	92.4	93.2	93.7	94.9	95.7	95.8	96.0	96.2	96.2	96.2	96.6	96.6	96.7
≥ 80	88.7	91.4	92.0	92.8	93.8	94.3	95.6	96.3	96.4	96.7	96.9	96.9	97.2	97.2	97.2	97.3
≥ 70	88.9	91.8	92.4	93.4	94.4	95.1	96.3	97.1	97.2	97.4	97.7	97.7	98.0	98.0	98.0	98.1
≥ 60	89.0	92.1	92.9	93.9	94.9	95.8	97.1	97.9	98.0	98.4	98.7	98.7	99.0	99.0	99.0	99.1
≥ 50	89.0	92.2	93.1	94.1	95.2	96.1	97.4	98.2	98.3	98.8	99.0	99.0	99.3	99.3	99.3	99.4
≥ 40	89.0	92.2	93.1	94.1	95.3	96.2	97.6	98.3	98.4	98.9	99.1	99.1	99.4	99.4	99.4	99.6
≥ 30	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.9	99.9	99.9	100.0
≥ 20	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.9	99.9	99.9	100.0
≥ 10	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.9	99.9	99.9	100.0
≥ 0	89.0	92.2	93.1	94.1	95.4	96.6	97.9	98.7	98.8	99.2	99.6	99.6	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 970

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO FRESHING	55.7	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 20000	63.8	64.7	64.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 18000	64.2	64.4	64.4	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
≥ 16000	64.6	64.8	64.8	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
≥ 14000	65.8	66.7	66.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 12000	68.3	68.6	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
≥ 10000	75.6	75.9	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 9000	76.7	77.0	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 8000	78.9	79.2	79.4	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 7000	79.6	79.9	80.1	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
≥ 6000	79.9	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 5000	81.0	81.3	81.6	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
≥ 4500	81.6	81.9	82.1	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000	83.4	84.1	84.3	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 3500	84.4	85.1	85.6	85.8	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 3000	84.9	85.9	86.4	86.7	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2500	85.6	86.8	87.4	87.7	88.6	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2000	86.1	87.8	88.4	88.8	89.7	89.8	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1800	86.1	87.8	88.6	88.9	89.9	90.0	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1500	86.3	88.2	89.1	89.7	91.1	91.2	91.6	92.1	92.3	92.9	92.9	92.9	92.9	93.1	93.1	93.1
≥ 1200	86.3	88.3	89.2	89.8	91.2	91.3	92.4	93.1	93.4	94.0	94.0	94.0	94.0	94.2	94.2	94.7
≥ 1000	86.4	88.7	89.6	91.1	91.7	92.0	92.7	93.8	94.2	95.7	95.7	95.7	95.7	95.2	95.2	95.7
≥ 900	86.7	88.9	89.9	90.4	92.2	92.6	93.2	94.4	94.9	95.7	95.7	95.7	95.7	95.9	95.9	96.3
≥ 800	86.8	89.2	90.3	90.9	92.7	93.0	93.7	94.9	95.4	96.2	96.2	96.2	96.2	96.4	96.4	96.9
≥ 700	87.3	89.4	90.4	91.4	93.2	93.6	94.2	95.4	96.0	96.9	96.9	96.9	96.9	97.1	97.1	97.6
≥ 600	87.1	89.7	91.2	92.0	93.8	94.2	94.9	96.1	96.8	97.7	97.7	97.7	97.7	97.9	97.9	98.3
≥ 500	87.1	89.7	91.2	92.0	93.8	94.2	94.9	96.2	96.9	97.9	98.1	98.1	98.1	98.3	98.3	98.9
≥ 400	87.1	89.8	91.3	92.1	93.9	94.3	95.7	96.3	97.0	98.0	98.2	98.2	98.2	98.4	98.4	99.0
≥ 300	87.1	89.9	91.4	92.2	94.2	95.0	95.7	97.0	97.7	98.7	98.9	98.9	98.9	99.1	99.1	99.7
≥ 200	87.2	90.0	91.6	92.3	94.3	95.2	95.9	97.2	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.9
≥ 100	87.2	90.0	91.6	92.3	94.3	95.2	96.0	97.3	98.0	99.0	99.2	99.2	99.2	99.4	99.4	100.0
≥ 0	87.2	90.0	91.6	92.3	94.3	95.2	96.0	97.3	98.0	99.0	99.2	99.2	99.2	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 970

USAF ETAC FORM 10/64 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF/ETAC
 AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2500-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.02	≥0
20000	49.7	50.0	50.0	50.0	50.3	50.3	50.3	50.4	50.4	50.6	50.6	50.6	50.6	50.7	50.8	50.9
18000	57.8	58.1	58.2	58.2	58.6	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.9	59.0	59.1
16000	58.0	58.3	58.4	58.4	58.8	58.8	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.1	59.2	59.3
14000	58.1	58.4	58.6	58.6	58.9	58.9	58.9	59.0	59.0	59.1	59.1	59.1	59.1	59.2	59.3	59.4
12000	59.9	60.2	60.3	60.3	60.7	60.7	60.7	60.8	60.8	60.9	60.9	60.9	60.9	61.0	61.1	61.2
10000	64.1	64.4	64.6	64.6	64.9	64.9	64.9	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.3	65.4
8000	71.6	71.9	72.1	72.1	72.4	72.4	72.6	72.6	72.7	72.7	72.8	72.8	72.8	72.9	73.0	73.2
6000	73.8	74.1	74.3	74.3	74.7	74.7	74.8	74.8	74.9	74.9	75.0	75.0	75.0	75.1	75.2	75.4
4000	76.4	76.9	77.1	77.1	77.4	77.4	77.7	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.1	78.3
2000	77.8	78.2	78.4	78.4	78.8	79.1	79.1	79.2	79.2	79.3	79.3	79.3	79.3	79.4	79.6	79.8
1000	78.6	79.1	79.4	79.4	79.8	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.4	80.6	80.7	80.8
500	80.7	80.7	81.1	81.0	81.6	81.9	82.0	82.1	82.1	82.2	82.2	82.2	82.3	82.4	82.6	82.7
250	81.2	81.9	82.2	82.2	82.8	83.1	83.2	83.3	83.3	83.4	83.4	83.4	83.6	83.7	83.8	83.9
100	82.7	83.4	83.8	83.8	84.4	85.0	85.1	85.2	85.3	85.4	85.4	85.4	85.6	85.7	85.8	85.9
50	83.2	84.0	84.6	84.6	85.2	85.9	86.0	86.1	86.2	86.3	86.3	86.3	86.4	86.6	86.7	86.8
25	83.9	84.9	85.4	85.4	86.2	86.9	87.0	87.1	87.2	87.3	87.3	87.3	87.4	87.6	87.7	87.8
10	84.6	85.9	86.7	86.7	87.8	88.4	88.6	88.7	88.8	88.9	88.9	88.9	89.0	89.1	89.2	89.3
5	84.8	86.7	87.6	87.6	88.8	89.4	89.8	90.0	90.1	90.6	90.6	90.6	90.7	90.8	90.9	91.0
2.5	84.8	86.8	87.7	87.8	89.0	89.7	90.0	90.2	90.3	90.8	90.8	90.8	90.9	91.0	91.1	91.2
1.5	85.2	87.7	88.8	89.1	90.7	91.3	91.7	92.1	92.2	92.8	92.9	92.9	93.0	93.1	93.2	93.3
1.0	85.6	88.0	89.1	89.4	91.0	91.9	92.4	93.0	93.1	93.9	94.2	94.2	94.3	94.4	94.6	94.7
0.75	85.7	88.3	89.4	89.9	91.4	92.3	93.0	93.4	93.7	94.4	94.8	94.8	94.9	95.0	95.1	95.2
0.5	85.7	88.4	89.6	90.0	91.6	92.4	93.0	93.8	94.1	95.0	95.3	95.3	95.4	95.6	95.7	95.8
0.25	85.8	88.7	89.8	90.2	91.8	92.7	93.6	94.0	94.3	95.3	95.7	95.7	95.9	96.0	96.2	96.3
0.1	85.8	88.9	90.0	90.4	92.0	92.9	93.9	94.3	94.7	95.7	96.0	96.0	96.2	96.3	96.6	96.7
0.05	85.8	88.9	90.0	90.4	92.0	93.1	94.3	94.8	95.1	96.1	96.4	96.4	96.7	96.8	97.0	97.1
0.02	85.8	88.9	90.0	90.4	92.0	93.1	94.3	94.8	95.1	96.1	96.6	96.6	96.8	97.0	97.3	97.3
0.01	85.8	89.6	90.7	91.1	92.7	93.8	95.2	95.9	96.2	97.2	97.7	97.7	97.9	98.1	98.3	98.4
0.005	85.8	89.9	91.0	91.7	93.2	94.6	96.0	96.7	97.0	98.0	98.4	98.4	98.7	98.9	99.1	99.2
0.002	85.8	89.9	91.0	91.7	93.3	94.7	96.1	96.9	97.3	98.3	98.8	98.8	99.2	99.4	99.7	99.8
0.001	85.8	89.9	91.0	91.7	93.3	94.7	96.2	97.0	97.4	98.4	98.9	98.9	99.4	99.7	99.9	100.0
0.000	85.8	89.9	91.0	91.7	93.3	94.7	96.2	97.0	97.4	98.4	98.9	98.9	99.4	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 920

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

727755

MAHMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1977-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 2000	45.8	46.1	46.3	46.4	46.4	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
1800	53.6	53.9	54.1	54.2	54.2	54.4	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
1600	54.2	54.6	54.8	54.9	54.9	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
1400	54.3	54.7	54.8	55.0	55.0	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
1200	56.4	56.8	57.0	57.1	57.1	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
1000	63.3	63.7	63.9	64.0	64.0	64.2	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
800	70.1	70.4	70.7	70.8	70.8	71.0	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
600	72.8	73.1	73.3	73.4	73.4	73.7	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
400	76.3	76.8	77.0	77.1	77.1	77.3	77.3	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6
200	77.6	78.0	78.2	78.3	78.3	78.6	78.6	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
100	78.8	79.2	79.6	79.8	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	81.2	81.7	82.0	82.2	82.2	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7
60	82.7	83.1	83.4	83.7	83.7	83.9	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
40	84.1	84.7	85.0	85.2	85.4	85.7	85.7	85.9	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1
20	84.3	85.1	85.6	85.9	86.2	86.4	86.4	86.7	86.7	86.9	87.0	87.1	87.1	87.1	87.1	87.1
10	85.0	85.8	86.2	86.6	87.1	87.3	87.3	87.6	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1
8	85.2	86.3	86.9	87.2	87.8	88.0	88.0	88.2	88.4	88.8	88.9	88.9	88.9	88.9	88.9	88.9
6	85.6	87.0	87.6	87.9	88.6	88.9	89.0	89.4	89.7	90.1	90.2	90.2	90.2	90.2	90.2	90.2
4	85.7	87.1	87.7	88.0	88.7	89.0	89.1	89.6	89.8	90.2	90.3	90.3	90.3	90.3	90.3	90.3
2	86.7	88.0	88.6	89.0	89.7	90.0	90.1	90.9	91.2	91.9	92.1	92.1	92.2	92.2	92.2	92.2
1	86.1	88.6	89.1	89.6	90.2	90.6	90.8	91.6	92.2	93.2	93.6	93.6	93.7	93.7	93.7	93.7
0.5	86.4	89.3	89.9	90.3	91.0	91.4	91.8	92.7	93.3	94.7	95.2	95.2	95.3	95.4	95.4	95.4
0.2	86.4	89.3	89.9	90.3	91.1	91.6	92.0	92.9	93.8	95.2	95.8	95.8	96.0	96.2	96.2	96.2
0.1	86.4	89.4	90.0	90.4	91.2	91.7	92.1	93.0	93.9	95.3	96.1	96.1	96.3	96.7	96.7	96.7
0.05	86.4	89.4	90.0	90.4	91.2	91.7	92.2	93.1	94.0	95.7	96.4	96.4	96.7	97.0	97.0	97.0
0.02	86.7	89.8	90.3	91.0	91.8	92.2	92.8	93.8	94.8	96.9	97.7	97.7	97.9	98.2	98.2	98.2
0.01	86.7	89.9	90.7	91.3	92.1	92.7	93.2	94.2	95.2	97.4	98.2	98.2	98.6	98.9	98.9	98.9
0.005	86.8	90.0	90.8	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.002	86.8	90.0	90.8	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.001	86.8	90.1	90.9	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.0005	86.8	90.1	90.9	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.0002	86.8	90.1	90.9	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3
0.0001	86.8	90.1	90.9	91.4	92.4	93.0	93.6	94.6	95.6	97.8	98.7	98.7	99.0	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
LOCAL TIME

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.8	≥.6	≥.5	≥.4	≥.3	≥.2
≥ 29000	48.2	48.4	48.6	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 18000	55.8	56.7	56.1	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 16000	56.3	56.6	56.7	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 14000	56.7	56.9	57.0	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	59.6	59.8	59.9	60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 10000	66.8	67.0	67.1	67.3	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	73.3	73.6	73.7	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	76.0	76.2	76.3	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 7000	78.2	78.6	78.7	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
≥ 6000	79.2	79.6	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
≥ 5000	79.6	79.9	80.0	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 4500	82.1	82.4	82.6	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4000	83.2	83.6	83.8	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	84.8	85.2	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 3000	84.9	85.4	86.2	86.6	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	85.6	86.3	87.1	87.4	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 2000	85.9	87.0	87.8	88.2	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	86.7	87.1	88.1	88.6	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 1500	86.2	87.3	88.3	88.8	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1200	86.4	87.7	88.7	89.1	90.0	90.3	90.3	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000	87.1	88.7	89.9	90.6	91.4	91.8	91.9	92.4	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 900	87.2	88.9	90.2	91.0	92.1	92.4	92.7	93.4	93.9	94.9	94.9	95.0	95.0	95.1	95.1	95.1
≥ 800	87.3	89.0	90.4	91.2	92.3	92.7	93.0	93.8	94.2	95.3	95.4	95.6	95.6	95.7	95.7	95.8
≥ 700	87.4	89.1	90.6	91.3	92.4	92.8	93.1	94.0	94.4	95.6	95.9	96.0	96.1	96.2	96.2	96.4
≥ 600	87.4	89.1	90.7	91.4	92.7	93.1	93.4	94.4	94.9	96.0	96.6	96.7	96.8	96.9	97.1	97.3
≥ 500	87.7	89.8	91.4	92.4	93.8	94.2	94.6	95.6	96.0	97.2	97.8	97.9	98.0	98.1	98.3	98.6
≥ 400	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 300	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 200	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 100	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6
≥ 0	87.7	89.9	91.6	92.6	93.9	94.3	94.7	95.8	96.2	97.7	98.4	98.6	98.8	99.0	99.2	99.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-83

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	21	20	24	23	22	21	20	20
≥ 8000	52.7	52.8	53.1	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
≥ 7000	59.0	59.2	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 6000	59.5	59.7	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 5000	59.7	60.0	60.2	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
≥ 4000	61.1	61.3	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 3000	67.2	67.4	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 2000	73.7	74.2	74.4	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
≥ 1000	75.6	76.1	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000	78.5	79.2	79.4	79.6	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 7000	80.2	81.0	81.3	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 6000	81.5	82.3	82.6	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000	82.1	82.9	83.2	83.4	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500	83.3	84.1	84.4	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4000	85.4	86.2	86.8	87.1	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500	85.8	86.5	87.3	87.7	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3000	86.7	87.7	88.4	88.8	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	86.7	87.7	88.4	88.8	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2000	86.9	88.3	89.2	89.7	90.2	90.5	90.5	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1800	86.9	88.3	89.3	89.8	90.3	90.8	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1500	87.7	88.7	89.7	90.1	90.9	91.7	91.7	91.7	91.7	92.3	92.5	92.5	92.5	92.5	92.7	92.7
≥ 1200	87.8	89.4	90.4	91.1	92.0	92.9	92.9	92.9	93.0	93.8	94.0	94.0	94.0	94.1	94.1	94.2
≥ 1000	88.2	90.0	91.1	91.9	92.8	93.7	93.8	93.9	94.1	95.3	95.8	95.8	95.9	96.0	96.1	96.1
≥ 900	88.2	90.0	91.1	92.0	92.9	93.8	93.9	94.1	94.4	95.7	96.1	96.1	96.2	96.3	96.4	96.4
≥ 800	88.2	90.0	91.1	92.0	93.0	94.0	94.1	94.3	94.7	96.0	96.4	96.4	96.6	96.7	96.8	96.8
≥ 700	88.2	90.0	91.1	92.1	93.1	94.4	94.4	95.0	95.3	96.8	97.2	97.2	97.3	97.4	97.7	97.7
≥ 600	88.3	90.3	91.4	92.5	93.7	95.0	95.4	95.7	96.0	98.0	98.4	98.4	98.7	98.8	99.0	99.0
≥ 500	88.3	90.3	91.4	92.5	93.7	95.1	95.6	96.0	96.3	98.4	99.0	99.0	99.2	99.3	99.6	99.6
≥ 400	88.3	90.3	91.5	92.7	93.8	95.2	95.7	96.1	96.6	98.7	99.2	99.2	99.4	99.6	99.8	99.8
≥ 300	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 200	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 100	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0
≥ 0	88.3	90.3	91.5	92.7	93.8	95.2	95.8	96.2	96.7	98.8	99.3	99.3	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AWP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1830-2000
LOCAL TIME

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	53.6	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
≥ 2000	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 1800	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 1600	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 1400	62.1	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
≥ 1200	67.2	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 1000	74.1	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 900	75.4	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	76.3
≥ 800	77.9	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	79.0
≥ 700	78.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 600	80.0	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	81.6
≥ 500	81.3	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	83.3
≥ 4500	82.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000	84.1	86.2	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500	84.8	87.0	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000	85.4	87.7	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	85.7	88.4	89.0	89.2	89.7	89.7	89.7	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2000	86.1	89.2	89.9	90.1	90.6	90.6	90.6	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1800	86.1	89.2	89.9	90.1	90.6	90.7	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500	86.2	90.1	91.0	91.2	91.8	92.2	92.4	92.5	92.9	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	86.4	90.3	91.3	91.5	92.1	92.5	93.0	93.5	94.0	94.6	94.6	94.6	94.9	94.9	94.9
≥ 1000	86.6	90.6	91.6	91.9	92.8	93.2	93.8	94.5	95.0	95.9	95.9	95.9	96.1	96.1	96.1
≥ 900	87.0	91.0	92.3	92.5	93.4	94.0	94.5	95.5	96.0	96.9	96.9	96.9	97.1	97.1	97.1
≥ 800	87.2	91.2	92.5	92.8	93.6	94.2	94.9	95.9	96.3	97.2	97.2	97.2	97.4	97.4	97.4
≥ 700	87.2	91.3	92.8	93.0	93.9	94.5	95.5	96.8	97.2	98.3	98.3	98.3	98.6	98.6	98.6
≥ 600	87.2	91.3	92.8	93.1	94.1	94.9	95.9	97.1	97.5	98.7	98.7	98.7	98.9	98.9	98.9
≥ 500	87.3	91.4	92.9	93.2	94.4	95.2	96.2	97.4	97.9	99.0	99.1	99.1	99.3	99.3	99.3
≥ 400	87.3	91.6	93.3	93.6	94.9	95.7	96.7	97.9	98.4	99.6	99.7	99.7	99.9	99.9	99.9
≥ 300	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	100.0	100.0	100.0
≥ 200	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	100.0	100.0	100.0
≥ 100	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	100.0	100.0	100.0
≥ 0	87.3	91.6	93.3	93.6	94.9	95.7	96.8	98.0	98.6	99.7	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

74-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	27	21	24	21	24	21	2	2510	24	20
NO CEILING	56.0	56.3	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 20000	63.4	63.8	63.8	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
≥ 18000	53.9	64.2	64.2	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
≥ 16000	63.9	64.2	64.2	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
≥ 14000	65.4	65.8	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 12000	68.0	68.3	68.3	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
≥ 10000	75.7	76.0	76.0	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
≥ 9000	76.1	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 8000	78.6	78.9	78.9	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
≥ 7000	79.7	80.0	80.0	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
≥ 6000	80.4	80.9	81.0	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000	82.1	82.8	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4500	82.7	83.8	83.9	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4000	84.5	85.7	85.8	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3500	85.3	86.5	86.6	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3000	85.8	87.3	87.7	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.0	89.0	89.0	89.0	89.0
≥ 2500	86.6	88.2	88.7	89.1	89.9	89.9	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2000	87.3	89.3	89.9	90.3	91.2	91.4	91.5	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1800	87.4	89.5	90.1	90.5	91.4	91.8	91.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1600	87.6	89.9	90.4	91.4	92.5	92.9	93.2	93.3	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1400	87.6	89.9	90.4	91.4	92.6	93.0	93.5	94.1	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1200	87.7	90.0	90.5	91.5	92.8	93.1	93.6	94.3	94.5	95.5	95.7	95.7	95.8	95.8	95.8	95.8
≥ 1000	88.0	90.4	91.0	92.1	93.5	93.9	94.4	95.2	95.4	96.4	96.5	96.5	96.7	96.7	96.7	96.7
≥ 900	88.5	91.0	91.8	92.9	94.3	94.6	95.2	96.0	96.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4
≥ 800	88.5	91.3	92.3	93.4	95.2	95.5	96.1	96.9	97.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥ 700	88.5	91.3	92.4	93.8	95.5	95.9	96.8	97.5	97.9	99.2	99.3	99.3	99.6	99.6	99.6	99.6
≥ 600	88.5	91.3	92.4	93.8	95.5	95.9	96.8	97.5	97.9	99.2	99.3	99.3	99.6	99.6	99.6	99.6
≥ 500	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥ 400	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥ 300	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥ 200	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥ 100	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0
≥ 0	88.6	91.5	92.9	94.2	96.0	96.3	97.2	98.0	98.3	99.7	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
DATA

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2
NO CEILING	52.5	52.8	52.9	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.3
≥ 20000	59.7	60.3	60.1	60.2	60.3	60.7	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.5
≥ 18000	60.3	60.6	60.7	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.1
≥ 14000	62.1	62.4	62.5	62.6	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9
≥ 12000	66.7	67.0	67.1	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6
≥ 10000	73.8	74.2	74.3	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.8	74.8
≥ 9000	75.4	75.8	75.9	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.5
≥ 8000	78.0	78.5	78.6	78.8	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.2
≥ 7000	79.1	79.6	79.8	79.9	80.0	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.4
≥ 6000	79.9	80.5	80.7	80.9	81.0	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.3	81.3	81.3
≥ 5000	81.4	82.1	82.4	82.5	82.7	82.8	82.8	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0	83.1
≥ 4500	82.4	83.2	83.4	83.6	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.1	84.1	84.1	84.2
≥ 4000	84.3	85.2	85.5	85.7	86.0	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.4	86.4	86.4	86.5
≥ 3500	84.8	85.8	86.3	86.5	86.8	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.3	87.3	87.3	87.4
≥ 3000	85.5	86.7	87.3	87.5	88.0	88.2	88.2	88.3	88.3	88.4	88.4	88.4	88.5	88.5	88.5	88.6
≥ 2500	85.9	87.4	88.1	88.3	88.9	89.1	89.2	89.2	89.3	89.4	89.4	89.4	89.5	89.5	89.5	89.6
≥ 2000	86.3	88.1	88.9	89.2	89.9	90.2	90.3	90.4	90.5	90.7	90.7	90.7	90.8	90.8	90.8	90.9
≥ 800	86.4	88.3	89.1	89.4	90.1	90.4	90.6	90.7	90.7	91.0	91.0	91.0	91.1	91.1	91.1	91.2
≥ 1500	86.6	88.8	89.7	90.2	91.2	91.5	91.8	92.1	92.3	92.7	92.8	92.8	92.9	92.9	92.9	93.0
≥ 1200	86.9	89.2	90.1	90.7	91.7	92.1	92.6	93.2	93.4	94.0	94.1	94.1	94.3	94.3	94.3	94.4
≥ 1000	87.1	89.6	90.5	91.1	92.2	92.7	93.2	93.9	94.3	95.2	95.4	95.4	95.6	95.6	95.6	95.7
≥ 900	87.2	89.8	90.7	91.4	92.5	93.1	93.7	94.4	94.8	95.8	96.0	96.0	96.2	96.2	96.3	96.4
≥ 800	87.4	90.0	91.0	91.7	92.9	93.4	94.1	94.8	95.2	96.2	96.5	96.5	96.7	96.8	96.8	96.9
≥ 700	87.4	90.2	91.3	92.0	93.2	93.9	94.6	95.4	95.8	96.9	97.2	97.2	97.4	97.5	97.6	97.7
≥ 600	87.5	90.4	91.6	92.4	93.7	94.4	95.2	96.1	96.5	97.8	98.1	98.1	98.3	98.4	98.5	98.6
≥ 500	87.6	90.5	91.7	92.5	93.9	94.6	95.4	96.3	96.8	98.1	98.5	98.5	98.7	98.8	98.9	99.1
≥ 400	87.6	90.6	91.9	92.7	94.1	94.9	95.7	96.6	97.1	98.4	98.8	98.9	99.1	99.2	99.3	99.4
≥ 300	87.6	90.7	92.0	92.8	94.2	95.1	95.9	96.9	97.4	98.7	99.2	99.2	99.4	99.6	99.7	99.8
≥ 200	87.6	90.7	92.0	92.9	94.3	95.2	96.0	97.0	97.5	98.9	99.3	99.3	99.6	99.7	99.8	100.0
≥ 100	87.6	90.7	92.0	92.9	94.3	95.2	96.1	97.0	97.5	98.9	99.3	99.4	99.7	99.8	99.9	100.0
≥ 0	87.6	90.7	92.0	92.9	94.3	95.2	96.1	97.0	97.5	98.9	99.3	99.4	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7193

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

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

HALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	20	20	25	24	23	22	20	21	21	24	24	21	25	24	20	20
2 1000	44.3	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.5	46.5	46.5	46.7	
2 2000	52.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.7	54.7	54.9	
2 3000	52.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.7	54.7	54.9	
2 4000	53.1	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.2	55.2	55.4	55.4	55.6	
2 5000	56.6	58.3	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	59.0	59.0	59.2	
2 6000	68.7	70.6	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.5	71.5	71.7	
2 7000	69.5	71.4	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.3	72.3	72.5	
2 8000	72.8	74.7	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.6	75.6	75.8	
2 9000	73.7	75.6	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.6	76.6	76.8	
2 10000	74.3	76.5	76.8	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.4	77.4	77.6	
2 11000	77.4	79.6	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.5	80.5	80.8	
2 12000	78.8	81.0	81.3	81.5	81.6	81.6	81.6	81.7	81.7	81.7	81.8	81.8	82.0	82.0	82.3	
2 13000	80.6	83.4	84.1	84.3	84.4	84.4	84.4	84.5	84.6	84.6	84.7	84.7	84.9	84.9	85.2	
2 14000	82.0	85.2	85.9	86.3	86.5	86.5	86.5	86.6	86.7	86.7	86.8	86.8	87.1	87.1	87.2	
2 15000	83.1	86.5	87.5	88.0	88.2	88.2	88.2	88.4	88.7	88.7	88.8	88.8	89.0	89.0	89.2	
2 16000	84.7	88.0	89.0	89.6	89.9	89.9	89.9	90.1	90.6	90.6	90.8	90.8	91.0	91.0	91.2	
2 17000	84.3	88.4	89.6	90.1	90.4	90.4	90.4	90.6	91.2	91.2	91.3	91.3	91.5	91.5	91.7	
2 18000	84.3	88.5	89.7	90.2	90.5	90.5	90.5	90.8	91.3	91.4	91.5	91.5	91.7	91.7	91.9	
2 19000	84.5	88.8	90.4	91.2	91.5	91.5	91.6	91.9	92.7	92.9	93.0	93.0	93.2	93.2	93.4	
2 20000	84.5	89.1	91.1	92.0	92.5	92.5	92.6	93.0	93.8	94.0	94.1	94.1	94.3	94.3	94.5	
2 21000	84.5	89.2	91.2	92.3	92.9	92.9	93.0	93.4	94.2	94.5	94.6	94.6	94.8	94.8	95.1	
2 22000	84.5	89.2	91.2	92.3	92.9	92.9	93.1	93.9	94.6	95.1	95.2	95.2	95.4	95.4	95.6	
2 23000	84.5	89.4	91.3	92.4	93.0	93.1	93.3	94.1	94.8	95.4	95.5	95.5	95.8	95.8	96.1	
2 24000	84.5	89.5	91.5	92.8	93.9	94.0	94.2	95.1	95.8	96.3	96.5	96.5	96.8	96.8	97.0	
2 25000	84.5	89.6	91.6	92.9	94.2	94.3	94.6	95.6	96.3	96.9	97.0	97.0	97.3	97.3	97.7	
2 26000	85.1	90.1	92.3	93.5	94.8	94.9	95.3	96.6	97.3	97.8	98.0	98.0	98.3	98.3	98.7	
2 27000	85.1	90.1	92.3	93.5	94.8	94.9	95.4	96.8	97.5	98.1	98.2	98.2	98.5	98.5	98.9	
2 28000	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	97.7	98.4	98.5	98.5	98.8	98.8	99.4	
2 29000	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	98.0	98.7	98.8	98.8	99.1	99.1	99.7	
2 30000	85.1	90.1	92.3	93.5	94.8	95.1	95.6	97.0	98.0	98.7	98.8	98.8	99.1	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AFB WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1322-2500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥1000	46.3	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.3	48.3	48.3
≥800	54.9	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	56.9	56.9
≥600	55.1	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0
≥400	55.3	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	57.2	57.2
≥200	55.8	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7
≥100	58.8	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	60.8	60.8
≥80	68.4	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3
≥60	69.8	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7
≥40	74.1	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3
≥20	74.5	76.5	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
≥10	75.4	77.3	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8
≥8	77.8	79.8	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4
≥6	79.4	81.4	81.7	81.7	81.8	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0
≥4	82.4	84.8	85.2	85.2	85.3	85.4	85.4	85.4	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6
≥2	83.9	86.6	86.9	86.9	87.0	87.1	87.1	87.3	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7
≥1	85.1	88.0	88.3	88.3	88.5	88.6	88.6	88.8	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2
≥0.8	85.5	88.5	88.8	88.9	89.1	89.2	89.2	89.5	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9
≥0.6	85.9	88.9	89.4	89.7	89.9	90.0	90.0	90.3	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7
≥0.4	86.5	89.8	90.5	91.0	91.2	91.3	91.7	92.3	92.6	92.8	92.9	92.9	92.9	92.9	92.9	92.9
≥0.3	86.9	90.2	91.2	91.6	92.0	92.2	92.7	93.2	93.5	94.2	94.3	94.3	94.3	94.3	94.3	94.3
≥0.2	87.0	90.5	91.5	91.9	92.5	92.6	93.3	94.0	94.4	95.3	95.4	95.4	95.4	95.4	95.4	95.4
≥0.1	87.0	90.8	91.8	92.3	92.8	92.9	93.7	94.3	94.7	95.7	95.8	95.8	95.9	95.9	95.9	95.9
≥0.08	87.0	90.9	92.4	93.3	94.0	94.1	94.8	95.5	95.9	97.1	97.2	97.2	97.3	97.3	97.3	97.3
≥0.06	87.1	91.0	92.6	93.7	94.3	94.4	95.2	95.8	96.3	97.6	97.8	97.8	98.0	98.0	98.0	98.0
≥0.04	87.1	91.0	92.6	93.7	94.4	94.5	95.3	95.9	96.6	97.8	98.1	98.1	98.2	98.2	98.2	98.2
≥0.03	87.2	91.1	92.7	93.8	94.6	94.7	95.6	96.3	97.0	98.6	98.8	98.8	98.9	98.9	98.9	98.9
≥0.02	87.2	91.1	92.7	93.8	94.6	94.7	95.6	96.3	97.0	98.6	98.8	98.8	98.9	98.9	98.9	98.9
≥0.01	87.2	91.1	92.7	94.0	94.8	94.9	95.8	96.6	97.3	98.9	99.1	99.1	99.2	99.2	99.2	99.2
≥0.00	87.2	91.1	92.7	94.0	94.8	94.9	95.8	96.6	97.3	99.0	99.2	99.2	99.4	99.4	99.4	99.4
≥0.00	87.2	91.1	92.7	94.0	94.8	94.9	95.8	96.6	97.3	99.0	99.2	99.2	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755 MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

7600-2870

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	45.5	46.2	46.2	46.3	46.3	46.3	46.3	46.5	46.5	46.6	46.6	46.6	46.6	46.6	46.6	46.6
2000	53.9	54.6	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
3000	54.2	54.9	54.9	55.1	55.1	55.1	55.1	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
4000	54.2	54.9	54.9	55.1	55.1	55.1	55.1	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
5000	55.3	56.0	56.0	56.1	56.1	56.1	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3
6000	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
7000	68.2	69.2	69.2	69.4	69.4	69.4	69.4	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6
8000	69.2	70.3	70.3	70.4	70.5	70.5	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8
9000	73.4	74.7	74.7	74.8	74.9	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
10000	74.4	75.8	75.8	75.9	76.0	76.0	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
11000	76.1	77.5	77.5	77.6	77.7	77.7	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0
12000	78.3	79.7	79.8	80.0	80.1	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
13000	79.9	81.4	81.5	81.7	81.8	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
14000	82.6	84.1	84.3	84.5	84.6	84.6	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
15000	83.1	84.8	85.1	85.3	85.4	85.6	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
16000	84.3	86.5	86.7	86.9	87.0	87.3	87.4	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
17000	84.5	87.1	87.5	87.8	88.0	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
18000	85.1	88.0	88.6	88.9	89.0	89.6	89.8	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1
19000	85.2	88.1	88.7	89.0	89.1	89.7	89.9	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3
20000	85.8	88.9	89.9	90.2	90.9	91.4	91.7	91.9	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
21000	86.5	89.7	90.9	91.4	92.4	92.9	93.3	93.7	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.3
22000	86.7	89.9	91.1	91.6	92.8	93.3	93.8	94.2	94.5	95.4	95.6	95.6	95.7	95.7	95.7	95.7
23000	86.7	89.9	91.1	91.7	92.9	93.4	93.9	94.3	94.6	95.6	95.8	95.8	95.8	95.9	95.9	95.9
24000	86.9	90.1	91.6	92.3	93.5	94.1	94.5	94.9	95.4	96.5	96.7	96.7	96.8	96.8	96.8	96.8
25000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.4	95.8	97.2	97.4	97.4	97.5	97.5	97.5	97.5
26000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.8	96.2	97.7	98.0	98.0	98.2	98.2	98.3	98.3
27000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.9	96.6	98.5	98.7	98.7	98.9	98.9	99.0	99.0
28000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.9	96.7	98.6	98.8	98.8	99.1	99.1	99.2	99.2
29000	86.9	90.2	91.7	92.6	93.9	94.4	94.8	95.9	96.7	98.6	98.8	98.8	99.1	99.1	99.2	99.2
30000	87.7	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.0	99.0	99.4	99.4	99.5	99.5
31000	87.0	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.1	99.1	99.5	99.6	99.7	99.7
32000	87.0	90.3	91.8	92.7	94.0	94.5	94.9	96.1	96.9	98.8	99.1	99.1	99.5	99.6	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

930-1100
PERIOD

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ 0
≥ 20000	38.7	38.6	38.7	38.8	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥ 18000	47.1	47.7	47.8	48.0	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 16000	48.1	48.7	48.8	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 14000	48.6	49.2	49.4	49.5	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 12000	51.6	52.3	52.4	52.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 10000	58.1	58.7	58.8	58.9	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 8000	68.5	69.6	69.7	69.8	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 6000	70.4	71.6	71.8	71.9	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4000	76.6	77.8	78.1	78.3	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5
≥ 2000	77.5	78.8	79.7	79.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1000	79.7	80.5	80.8	81.1	82.2	82.2	82.2	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 500	79.9	81.6	81.8	82.3	83.3	83.3	83.3	83.5	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9
≥ 250	80.4	82.3	82.6	83.0	84.2	84.2	84.4	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 150	82.4	84.6	84.9	85.5	86.8	86.8	87.0	87.2	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4
≥ 100	82.9	85.2	85.6	86.1	87.5	87.5	87.7	88.0	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2
≥ 50	83.1	85.5	86.2	86.8	88.2	88.2	88.5	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	89.0
≥ 25	83.5	86.3	87.2	87.8	89.5	89.5	89.8	90.1	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.5
≥ 15	83.9	86.9	88.0	88.6	90.3	90.3	90.8	91.1	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.8
≥ 10	84.0	87.3	88.4	89.0	90.8	90.8	91.2	91.5	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.3
≥ 5	84.2	88.7	89.7	89.9	91.6	91.8	92.8	93.3	93.8	94.0	94.1	94.2	94.2	94.2	94.2	94.3
≥ 2.5	84.2	88.2	89.2	90.1	91.9	92.2	93.2	94.1	94.5	94.7	94.8	94.9	94.9	94.9	94.9	95.1
≥ 1.5	84.3	88.6	89.7	90.5	92.4	92.6	93.7	94.5	95.1	95.3	95.4	95.5	95.6	95.6	95.7	95.8
≥ 1.2	84.3	88.7	89.8	90.6	92.5	92.7	93.8	94.7	95.3	95.5	95.6	95.7	95.8	95.8	95.9	96.0
≥ 1	84.4	88.9	90.0	90.9	92.8	93.0	94.2	95.2	95.7	96.1	96.2	96.3	96.5	96.5	96.6	96.7
≥ .75	84.4	88.9	90.0	91.1	93.0	93.2	94.4	95.4	95.9	96.7	96.8	96.9	97.2	97.2	97.3	97.4
≥ .5	84.4	88.9	90.0	91.1	93.1	93.3	94.5	95.6	96.2	97.1	97.2	97.3	97.6	97.6	97.7	97.8
≥ .25	84.4	88.9	90.0	91.1	93.2	93.7	94.9	96.0	96.8	97.6	98.2	98.4	98.7	98.8	98.9	99.0
≥ .1	84.4	88.9	90.0	91.1	93.2	93.7	94.9	96.0	96.8	97.6	98.2	98.4	98.8	98.9	99.0	99.1
≥ .05	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.2	99.4	99.5
≥ .02	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.5	99.6	99.7
≥ .01	84.4	88.9	90.1	91.3	93.4	93.9	95.3	96.3	97.1	98.0	98.5	98.7	99.1	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM 12-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72755 MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
≥ 7000	43.1	43.5	43.7	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 6000	50.1	50.8	50.9	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 5000	51.0	51.6	51.7	51.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 4000	51.5	52.2	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 3000	53.3	54.0	54.1	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 2000	59.7	59.7	59.8	59.8	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 1500	70.8	71.6	71.8	71.8	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 1000	73.1	74.0	74.2	74.2	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 900	77.2	78.1	78.4	78.5	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 800	78.2	79.1	79.5	79.6	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 700	79.5	80.6	81.0	81.1	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 600	81.2	82.4	82.7	82.8	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 500	82.2	83.7	84.0	84.1	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 450	83.9	85.7	86.1	86.5	87.3	87.4	87.6	87.6	87.7	87.7	87.7	88.0	88.0	88.0	88.0	88.0
≥ 400	84.2	86.7	86.5	86.9	88.4	88.5	88.8	88.8	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1
≥ 350	84.5	86.6	87.7	87.4	89.0	89.1	89.5	89.5	89.6	89.7	89.7	89.9	89.9	89.9	89.9	89.9
≥ 300	84.8	87.1	87.5	88.3	90.1	90.2	90.6	90.8	90.9	91.1	91.1	91.3	91.3	91.3	91.3	91.3
≥ 250	85.3	87.6	88.1	89.0	90.9	91.0	91.4	91.7	91.8	92.2	92.2	92.4	92.4	92.4	92.4	92.4
≥ 200	85.3	87.7	88.2	89.4	91.2	91.3	91.7	92.0	92.2	92.5	92.5	92.7	92.7	92.7	92.7	92.7
≥ 150	85.4	88.0	88.6	89.8	91.9	92.0	92.6	93.1	93.2	93.8	93.8	94.0	94.0	94.0	94.0	94.0
≥ 100	85.4	88.1	88.7	90.0	92.2	92.3	92.9	93.7	93.9	94.4	94.4	94.6	94.6	94.6	94.6	94.6
≥ 50	85.5	88.3	88.9	90.2	92.4	92.5	93.1	94.0	94.2	95.4	95.4	95.7	96.2	96.3	96.5	96.5
≥ 0	85.6	88.4	89.0	90.3	92.5	92.6	93.2	94.1	94.3	95.5	95.5	95.9	96.5	96.6	96.7	96.7
≥ 100	85.7	88.6	89.2	90.5	92.7	92.8	93.5	94.5	94.7	96.0	96.0	96.5	97.0	97.1	97.2	97.2
≥ 700	85.7	88.6	89.4	90.6	92.8	92.9	93.7	94.6	94.8	96.1	96.1	96.6	97.3	97.4	97.5	97.5
≥ 600	85.8	88.7	89.5	90.8	92.9	93.0	93.8	94.8	95.2	96.7	96.7	97.1	97.8	98.0	98.1	98.1
≥ 500	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.1	97.5	98.3	98.5	98.6	98.6
≥ 400	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.2	97.7	98.5	98.8	98.9	98.9
≥ 300	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.2	97.7	98.5	98.8	98.9	98.9
≥ 200	85.9	88.8	89.6	90.9	93.0	93.1	93.9	95.1	95.4	97.1	97.2	97.7	98.5	98.8	98.9	98.9
≥ 100	85.9	88.8	89.6	90.9	93.1	93.2	94.1	95.3	95.6	97.3	97.5	98.1	98.8	99.5	99.6	99.6
≥ 0	85.9	88.8	89.6	90.9	93.1	93.2	94.1	95.3	95.6	97.3	97.5	98.1	98.8	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

707755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1500-1700
TIME PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .1
> 20000	39.6	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 18000	48.2	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 16000	48.7	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 14000	49.4	49.8	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 12000	51.2	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 10000	58.4	58.9	58.9	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
≥ 8000	69.0	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 7000	70.5	71.4	71.4	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
≥ 6000	75.8	77.2	77.3	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 5000	77.1	78.7	78.8	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
≥ 4500	78.3	80.2	80.3	80.4	80.5	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.9	80.9	80.9
≥ 4000	80.4	82.4	82.5	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9	83.1	83.1	83.1	83.1
≥ 3500	81.2	83.1	83.2	83.3	83.5	83.5	83.5	83.5	83.7	83.7	83.8	83.8	83.8	84.0	84.0	84.0
≥ 3000	83.7	86.1	86.3	86.6	86.8	86.8	86.9	87.0	87.2	87.3	87.3	87.3	87.5	87.5	87.5	87.5
≥ 2500	84.2	86.8	87.1	87.3	87.7	87.7	88.0	88.1	88.3	88.4	88.4	88.4	88.6	88.6	88.6	88.6
≥ 2000	84.6	87.8	88.2	88.4	89.2	89.2	89.6	89.8	90.0	90.2	90.2	90.2	90.4	90.4	90.4	90.4
≥ 1500	84.9	88.4	88.8	89.1	90.2	90.2	90.6	90.9	91.1	91.4	91.4	91.4	91.4	91.7	91.7	91.7
≥ 1000	85.4	89.0	89.6	90.1	91.2	91.2	91.8	92.0	92.3	92.8	92.8	92.8	93.1	93.1	93.1	93.1
≥ 800	85.8	89.5	90.4	91.0	92.0	92.0	92.7	92.9	93.2	93.9	93.9	93.9	94.2	94.2	94.2	94.2
≥ 700	86.1	89.8	90.9	91.4	92.5	92.6	93.4	93.8	94.1	94.8	95.1	95.1	95.5	95.5	95.5	95.5
≥ 600	86.6	90.2	91.3	91.9	93.0	93.1	94.0	94.5	94.9	95.9	96.2	96.2	96.8	96.8	96.9	96.9
≥ 500	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.8	95.5	96.9	97.2	97.2	97.7	97.7	97.8	97.8
≥ 400	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.9	95.6	97.2	97.5	97.5	98.1	98.1	98.2	98.2
≥ 300	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.9	95.6	97.3	97.6	97.6	98.3	98.3	98.4	98.4
≥ 200	86.7	90.4	91.5	92.2	93.2	93.3	94.3	94.9	95.6	97.3	97.6	97.6	98.3	98.3	98.4	98.4
≥ 100	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.2	99.5	99.5
≥ 0	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.4	99.7	99.7
≥ 0	86.7	90.5	91.7	92.4	93.5	93.7	94.6	95.3	95.9	97.7	98.3	98.4	99.1	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-87
YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

1200-2000
PERIOD

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	41.3	41.9	42.2	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 2000	49.5	57.3	57.5	50.5	57.8	50.8	57.8	50.8	57.8	50.8	57.8	50.8	57.8	50.8	57.8	50.8
≥ 1800	49.9	50.8	51.0	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 1600	50.3	51.2	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 1400	51.7	52.6	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 1200	55.7	56.6	56.9	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 1000	67.1	68.4	68.7	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 900	69.1	70.4	70.8	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 800	74.4	75.7	76.0	76.2	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 700	75.5	76.9	77.2	77.4	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 600	76.6	78.2	78.5	78.7	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 500	79.2	81.0	81.5	81.8	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4500	80.0	81.7	82.3	82.6	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4000	81.9	83.8	84.4	84.7	85.2	85.2	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 3500	83.4	85.5	86.2	86.9	87.3	87.3	87.5	87.5	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3000	84.2	86.9	87.8	88.6	89.6	89.6	89.9	89.9	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	84.6	87.5	88.5	89.4	90.3	90.3	90.8	90.8	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	85.7	88.9	90.1	91.1	92.2	92.2	92.6	92.6	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1800	85.7	88.9	90.3	91.4	92.5	92.5	92.9	92.9	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1500	86.7	90.0	91.5	92.7	93.8	93.8	94.3	94.4	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200	87.0	90.4	92.0	93.2	94.4	94.4	95.1	95.3	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	87.1	90.6	92.3	93.4	94.6	94.6	95.3	95.8	96.3	97.0	97.3	97.3	97.4	97.4	97.4	97.4
≥ 900	87.1	90.9	92.5	93.7	94.8	94.8	95.5	96.0	96.6	97.2	97.5	97.5	97.6	97.6	97.6	97.6
≥ 800	87.1	90.9	92.5	93.7	95.2	95.2	95.8	96.3	96.9	97.6	98.0	98.0	98.1	98.1	98.1	98.1
≥ 700	87.1	90.9	92.6	93.9	95.6	95.6	96.2	96.8	97.3	98.1	98.4	98.4	98.5	98.5	98.5	98.5
≥ 600	87.1	90.9	92.6	93.9	95.7	95.7	96.5	97.0	97.5	98.4	98.7	98.7	98.8	98.8	98.8	98.8
≥ 500	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.1	97.6	98.5	98.8	98.8	98.9	98.9	98.9	98.9
≥ 400	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	97.7	98.6	98.9	98.9	99.0	99.0	99.0	99.0
≥ 300	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	98.8	99.1	99.1	99.2	99.2	99.2	99.2
≥ 200	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	99.9
≥ 100	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	99.9
≥ 0	87.1	90.9	92.7	94.0	95.8	95.8	96.6	97.2	98.0	99.2	99.6	99.6	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755 MALMSTROM AFB MT 73-87 DEC
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS) 2100-2300
COURSES

CEILING FEET:	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	47.2	48.4	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.8
≥ 20000	55.8	57.7	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.3	57.4
≥ 18000	55.9	57.1	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.5
≥ 16000	56.1	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.6	57.7
≥ 14000	56.6	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.2
≥ 12000	59.9	61.3	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.8
≥ 10000	69.8	71.6	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.2
≥ 9000	70.6	72.5	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0
≥ 8000	73.8	75.6	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.1
≥ 7000	74.7	76.7	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.3
≥ 6000	75.4	77.6	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.3
≥ 5000	77.8	80.1	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.9
≥ 4500	78.9	81.2	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.9
≥ 4000	81.3	84.6	84.8	85.3	85.3	85.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.7
≥ 3500	82.8	86.5	86.9	87.5	87.6	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
≥ 3000	84.3	88.4	88.8	89.7	89.8	89.8	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.5	90.5	90.6
≥ 2500	85.1	89.7	90.1	91.2	91.3	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.0	92.2
≥ 2000	85.2	90.0	90.4	91.5	91.6	91.6	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.6	92.6	92.7
≥ 1800	85.2	90.2	90.6	91.7	92.0	92.0	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.8	92.8	92.9
≥ 1500	85.4	90.9	91.5	92.7	93.0	93.0	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.3	94.3	94.4
≥ 1200	85.4	90.9	91.6	92.8	93.2	93.2	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.9	94.9	95.1
≥ 1000	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.4	95.7	95.7	95.8	95.8	95.8	96.1	96.1	96.2
≥ 900	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.4	95.8	95.8	95.8	95.9	95.9	96.2	96.2	96.3
≥ 800	85.4	91.0	91.7	92.9	93.5	93.5	94.4	95.7	96.1	96.6	96.6	96.7	96.7	97.0	97.0	97.1
≥ 700	85.4	91.0	91.8	93.2	94.0	94.0	94.8	96.1	96.6	97.0	97.1	97.1	97.1	97.4	97.4	97.5
≥ 600	85.4	91.2	92.0	93.5	94.4	94.4	95.3	96.6	97.0	97.4	97.6	97.6	97.6	98.0	98.0	98.1
≥ 500	85.5	91.5	92.5	94.0	95.1	95.3	96.1	97.4	97.8	98.4	98.6	98.6	98.6	98.9	98.9	99.0
≥ 400	85.5	91.6	92.6	94.1	95.2	95.4	96.2	97.6	98.1	98.6	98.8	98.8	98.8	99.1	99.1	99.2
≥ 300	85.5	91.6	92.6	94.1	95.2	95.4	96.2	97.6	98.2	98.7	98.9	98.9	98.9	99.2	99.2	99.4
≥ 200	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥ 100	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0
≥ 0	85.5	91.6	92.6	94.1	95.3	95.5	96.5	97.8	98.4	99.2	99.6	99.6	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755

MALMSTROM AFB MT

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

ELEVATION FEET	VISIBILITY - STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.1	≥0.05	≥0.01	≥0	
≥10000	43.2	44.1	44.2	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.5	44.5	44.5	44.5
≥8000	51.5	52.5	52.6	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	52.9
≥6000	51.9	52.9	53.0	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4
≥4000	52.2	53.2	53.3	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7	53.7
≥2000	53.6	54.6	54.7	54.7	54.9	54.9	54.9	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥1000	58.1	59.1	59.2	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.7
≥800	68.8	70.1	70.3	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.8
≥600	70.3	71.6	71.8	71.9	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
≥400	74.8	76.2	76.4	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
≥200	75.7	77.3	77.5	77.6	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1
≥100	76.8	78.6	78.8	79.0	79.2	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5
≥50	79.7	80.8	81.1	81.3	81.6	81.6	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9
≥25	80.1	82.0	82.2	82.5	82.8	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
≥10	82.3	84.7	85.0	85.3	85.7	85.7	85.8	85.9	86.0	86.0	86.1	86.1	86.1	86.2	86.2	86.2	86.2
≥5	83.3	85.8	86.3	86.7	87.2	87.2	87.4	87.5	87.6	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.9
≥2.5	84.2	87.0	87.6	88.0	88.7	88.8	89.0	89.1	89.2	89.3	89.4	89.4	89.4	89.5	89.5	89.5	89.6
≥1.5	84.6	87.8	88.4	89.0	89.8	89.9	90.1	90.3	90.5	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.9
≥1.0	85.1	88.5	89.2	89.9	90.7	90.8	91.2	91.4	91.6	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0
≥0.75	85.1	88.6	89.4	90.1	90.9	91.0	91.4	91.6	91.9	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.3
≥0.5	85.5	89.2	90.2	91.0	92.0	92.1	92.6	93.0	93.3	93.6	93.6	93.7	93.8	93.8	93.8	93.8	93.8
≥0.25	85.7	89.5	90.7	91.6	92.6	92.8	93.4	93.9	94.2	94.6	94.7	94.8	94.9	94.9	94.9	94.9	94.9
≥0.1	85.9	89.8	91.0	91.9	93.0	93.1	93.8	94.5	94.9	95.6	95.7	95.8	96.0	96.0	96.0	96.1	96.1
≥0.05	85.9	89.9	91.0	92.0	93.1	93.3	93.9	94.7	95.1	95.8	96.0	96.1	96.3	96.3	96.3	96.4	96.4
≥0.01	86.0	90.0	91.3	92.3	93.5	93.6	94.4	95.1	95.6	96.5	96.7	96.7	97.0	97.0	97.1	97.1	97.1
≥0	86.0	90.1	91.4	92.5	93.8	94.0	94.7	95.5	96.0	97.0	97.2	97.3	97.6	97.6	97.7	97.7	97.7
≥0.001	86.0	90.1	91.4	92.6	94.0	94.1	94.9	95.8	96.3	97.4	97.6	97.7	98.0	98.0	98.1	98.2	98.2
≥0.0001	86.1	90.2	91.6	92.7	94.2	94.4	95.2	96.2	96.8	98.0	98.2	98.3	98.7	98.7	98.8	98.8	98.8
≥0.00001	86.1	90.3	91.6	92.8	94.2	94.4	95.2	96.3	96.9	98.1	98.3	98.4	98.8	98.9	99.0	99.0	99.0
≥0.000001	86.1	90.3	91.7	92.8	94.3	94.5	95.3	96.3	97.0	98.2	98.5	98.6	99.0	99.0	99.1	99.2	99.2
≥0.0000001	86.1	90.3	91.7	92.8	94.3	94.6	95.4	96.4	97.1	98.5	98.8	98.9	99.3	99.4	99.5	99.5	99.5
≥0.00000001	86.1	90.3	91.7	92.8	94.4	94.6	95.4	96.5	97.1	98.5	98.8	98.9	99.3	99.5	99.6	99.7	99.7
≥0.000000001	86.1	90.3	91.7	92.8	94.4	94.6	95.4	96.5	97.1	98.5	98.8	98.9	99.3	99.5	99.6	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 7490

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

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

73-83
YEAR

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

ALL
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	52.7	53.0	53.1	53.2	53.2	53.7	53.7	53.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4
≥ 20000	67.2	60.6	67.7	67.8	67.9	67.9	67.9	67.9	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.2
≥ 18000	67.6	61.0	61.1	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4
≥ 16000	67.8	61.2	61.3	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
≥ 14000	61.9	62.3	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7
≥ 12000	66.7	66.4	66.5	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8
≥ 10000	72.9	73.4	73.5	73.6	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9
≥ 9000	74.7	74.5	74.7	74.8	74.9	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0
≥ 8000	77.2	77.8	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.4
≥ 7000	78.1	78.7	78.9	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.4
≥ 6000	79.2	79.9	80.1	80.2	80.3	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.6
≥ 5000	82.2	82.9	83.1	83.3	83.4	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.7
≥ 4500	83.6	84.4	84.6	84.8	84.9	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2
≥ 4000	85.8	86.8	87.1	87.3	87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.8	87.8	87.8
≥ 3500	86.9	88.0	88.4	88.7	88.9	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.3	89.3	89.3
≥ 3000	87.7	89.1	89.6	89.9	90.3	90.3	90.5	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.8
≥ 2500	88.4	90.0	90.6	91.0	91.4	91.5	91.7	91.7	91.8	91.9	91.9	91.9	91.9	91.9	92.0	92.0
≥ 2000	89.7	90.8	91.4	91.9	92.4	92.5	92.7	92.9	92.9	93.0	93.1	93.1	93.1	93.1	93.2	93.2
≥ 1800	89.1	91.0	91.6	92.1	92.6	92.8	93.0	93.1	93.2	93.3	93.3	93.3	93.4	93.4	93.4	93.4
≥ 1500	89.6	91.6	92.4	92.9	93.5	93.7	94.0	94.2	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.7
≥ 1200	89.9	92.1	92.9	93.5	94.2	94.4	94.8	95.1	95.2	95.5	95.5	95.5	95.6	95.6	95.6	95.6
≥ 1000	97.1	92.5	93.3	94.0	94.8	95.0	95.5	95.9	96.0	96.4	96.5	96.5	96.5	96.6	96.6	96.6
≥ 900	97.2	92.6	93.5	94.3	95.0	95.3	95.7	96.1	96.3	96.7	96.8	96.8	96.9	96.9	97.0	97.0
≥ 800	90.3	92.7	93.7	94.4	95.3	95.5	96.0	96.5	96.7	97.1	97.2	97.2	97.3	97.3	97.4	97.4
≥ 700	90.4	92.9	93.9	94.7	95.6	95.9	96.4	96.9	97.1	97.5	97.7	97.7	97.8	97.8	97.9	97.9
≥ 600	97.5	93.1	94.1	95.0	95.9	96.2	96.7	97.2	97.5	98.0	98.2	98.2	98.3	98.4	98.4	98.5
≥ 500	97.6	93.2	94.3	95.1	96.1	96.4	97.0	97.6	97.8	98.5	98.6	98.7	98.8	98.9	98.9	99.0
≥ 400	97.6	93.3	94.4	95.3	96.3	96.6	97.2	97.9	98.1	98.7	98.9	99.0	99.2	99.2	99.3	99.3
≥ 300	90.6	93.3	94.5	95.4	96.4	96.7	97.4	98.0	98.3	99.0	99.2	99.2	99.4	99.5	99.5	99.6
≥ 200	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.6	99.7	99.8
≥ 100	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.6	99.7	99.9
≥ 0	90.6	93.3	94.5	95.4	96.4	96.8	97.5	98.1	98.4	99.1	99.3	99.4	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 87690

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

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

TOTAL SKY COVER

FOR AIRWAYS STATION'S THE CATEGORIES OF CLEAR, SCATTERED,
BROKEN, OVERCAST, & OBLSCURED 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 4/10

OVERCAST WAS CONVERTED TO 10/10

OBLSCURED WAS CONVERTED TO 10/10

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SKY COVER

727755

MALMSTROM AFB MT

74-P 3

JAN

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
JAN	00-02	17.7			24.4						19.7	38.2	6.3	929
	03-05	19.5			22.8						27.4	38.3	6.3	928
	06-08	17.8			26.2						21.6	41.5	6.9	928
	09-11	4.6			25.2						24.4	45.8	7.5	925
	12-14	4.2			22.8						25.4	47.6	7.7	929
	15-17	4.5			22.3						26.5	46.8	7.7	930
	18-20	9.9			23.9						21.7	44.5	7.1	929
	21-23	16.5			21.4						19.6	42.5	6.7	927
TOTALS		10.8			23.6						22.4	43.2	7.0	7428

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

727755 MALMSTROM AFB MT

74-93

FEB

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
FEB	00-02	9.9			25.1						24.1	41.0	7.0	842
	03-05	10.7			22.1						25.2	42.0	7.1	841
	06-08	5.7			22.6						29.9	41.8	7.5	844
	09-11	3.1			18.0						34.2	44.7	8.1	841
	12-14	3.7			18.5						33.4	44.5	8.0	845
	15-17	2.6			18.1						33.2	46.1	8.1	846
	18-20	7.5			22.5						30.4	39.6	7.4	845
	21-23	10.2			25.5						22.6	41.7	7.0	844
TOTALS		6.7			21.6						29.1	42.7	7.5	6748

USAFETAC

FORM
JA 64

8-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SKY COVER

227755

MALMSTROM AFB MT

74-93

MAR

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			
MAR	00-02	14.1			24.1							19.3	43.5	6.7	930
	03-05	14.5			21.1							19.8	44.6	6.9	929
	06-08	5.8			27.1							27.1	47.7	7.7	930
	09-11	3.7			27.5							31.7	44.8	7.9	928
	12-14	1.5			19.7							32.1	46.6	8.1	927
	15-17	1.6			16.6							36.8	45.7	8.3	929
	18-20	3.8			27.6							29.2	46.3	7.9	930
	21-23	9.7			28.4							23.7	38.9	6.8	930
TOTALS		6.8			21.4							27.3	44.6	7.5	7433

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATD WEATHER SERVICE/MAC

SKY COVER

727755

MALMSTROM AFB MT

74-R3

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	13.3			31.4							27.0	35.4	6.3	927
	03-05	7.9			32.3							22.1	37.8	6.7	929
	06-08	4.4			26.3							26.2	43.0	7.5	930
	09-11	2.6			29.3							28.1	41.1	7.5	930
	12-14	1.9			22.8							34.7	41.3	7.9	937
	15-17	1.6			21.9							39.1	38.4	8.0	930
	18-20	2.5			22.8							36.7	38.7	7.8	937
	21-23	8.6			31.5							23.9	36.7	6.7	929
TOTALS		5.8			27.0							28.7	39.0	7.3	7435

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

727755 MALMSTRÖM AFB MT

74-F3

JUL

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	
JUL	00-02	24.5			41.9							19.0	14.5	4.4	937
	03-05	15.6			48.0							21.0	15.5	4.9	937
	06-08	12.5			46.1							27.8	13.5	5.2	937
	09-11	11.7			51.1							24.7	14.7	5.1	937
	12-14	6.2			51.1							37.8	11.9	5.5	937
	15-17	4.2			48.2							31.4	16.2	5.9	937
	18-20	5.9			41.6							36.8	15.7	6.1	937
	21-23	13.5			39.9							37.5	16.7	5.5	937
TOTALS		11.7			46.0							27.7	14.7	5.3	7447

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

727755

MALMSTROM AFB MT

74-83

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 TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
SFP	00-02	32.0			37.6						15.9	21.6	4.5	900
	03-05	32.7			32.7						14.3	21.4	4.4	900
	06-08	14.5			35.5						27.6	22.5	5.9	899
	09-11	13.4			37.0						28.3	21.2	5.8	900
	12-14	11.4			35.4						30.6	22.6	5.1	900
	15-17	11.7			35.8						33.6	19.7	6.1	900
	18-20	13.3			38.6						27.6	27.6	5.7	900
	21-23	25.3			35.3						17.8	21.6	4.8	900
TOTALS		19.1			35.1						24.5	21.4	5.4	7199

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

SKY COVER

727755 MALMSTROM AFB MT

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	14.9			24.1							19.5	41.5	6.6	930
	03-05	15.2			23.8							18.1	43.0	6.6	930
	06-08	8.7			26.5							27.0	42.6	7.1	930
	09-11	2.0			23.3							29.4	45.3	7.9	930
	12-14	3.5			24.1							31.6	47.8	7.6	930
	15-17	2.8			21.9							32.6	42.7	7.9	930
	18-20	6.8			23.4							26.7	43.8	7.4	930
	21-23	13.2			24.9							18.1	43.8	6.8	929
TOTALS		8.3			24.0							24.8	42.9	7.2	7439

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SKY COVER

727755 MALMSTROM AFB MT

73-83

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 NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	17.8			23.6						22.4	43.2	7.7	7428
FEB		6.7			21.6						29.1	42.7	7.5	6748
MAR		6.8			21.4						27.3	44.6	7.5	7433
APR		7.4			26.7						25.9	40.7	7.1	7199
MAY		5.4			27.0						28.7	39.7	7.3	7435
JUN		5.5			34.8						32.1	27.6	6.7	7199
JUL		11.7			46.0						27.7	14.7	5.3	7440
AUG		9.5			42.9						29.1	18.6	5.8	7431
SEP		19.1			35.1						24.5	21.4	5.4	7199
OCT		12.7			31.0						27.2	29.2	6.3	7429
NOV		13.7			26.8						26.1	34.1	6.6	7175
DEC		8.3			24.0						24.8	42.9	7.2	7439
TOTALS		9.7			37.1						27.1	33.2	6.6	87555

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.

* Values for means 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 (σ_x). 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 usually was not reported prior to 1946. Relative humidity usually 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
 727755 MALMSTROM AFB MT
 STATION STATION NAME

DAILY TEMPERATURES

42-83

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
105							.1	.2					.0
100							.6	.8					.1
95						.2	5.1	4.8	.6				.9
90				.1	.2	3.2	20.5	20.5	4.1	.1			4.1
85				.2	2.3	17.2	42.9	47.7	12.3	.5			9.2
80				2.2	8.9	24.0	66.2	60.3	24.1	4.0			16.0
75			.2	4.9	18.5	47.1	82.1	76.3	39.5	11.7	.2		23.0
70		.1	1.1	12.0	32.5	59.6	92.4	89.1	55.0	23.9	1.4		30.9
65	.2	.6	3.7	20.9	49.6	76.3	96.9	94.9	67.9	36.6	4.2		38.0
60	1.0	2.4	9.1	33.8	66.5	88.1	99.1	98.1	79.5	50.8	11.4	1.3	45.4
55	3.9	8.8	19.2	49.3	80.9	95.5	99.8	99.4	87.8	66.0	23.4	6.1	53.6
50	10.5	20.3	32.5	65.3	90.1	99.1	100.0	100.0	92.8	78.8	37.9	16.8	62.2
45	22.6	33.7	48.3	78.5	95.8	99.8			95.9	87.7	53.1	31.5	70.7
40	38.3	51.4	62.5	87.9	98.4	100.0			98.3	92.4	67.4	48.3	78.8
35	51.8	63.7	72.9	93.2	99.6				99.8	96.2	80.6	62.6	85.1
30	60.8	72.6	80.8	97.2	99.9				100.0	98.7	88.0	72.2	89.2
25	67.3	79.9	86.3	99.1	100.0					99.4	90.9	78.2	91.8
20	73.5	84.2	90.5	99.6						99.9	93.2	84.3	93.8
15	78.4	89.3	93.3	99.8							95.2	88.2	95.3
10	81.7	92.5	96.1	100.0							97.0	90.9	96.5
5	85.4	95.8	97.5								98.0	93.8	97.5
0	89.5	98.4	98.5								98.2	96.7	98.5
-5	93.2	99.7	99.6								98.7	98.3	99.2
-10	96.0	99.9	99.8								100.0	99.4	99.6
-15	98.3	100.0	100.0									99.6	99.8
-20	99.8											99.9	100.0
-25	100.0											100.0	100.0
MEAN	29.5	36.7	41.5	54.2	64.1	71.8	82.3	81.2	69.8	59.3	44.0	35.4	55.8
S D.	19.105	15.253	15.392	12.612	11.101	9.917	8.424	9.294	12.711	12.721	14.153	15.755	22.115
TOTAL OBS.	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC
 727755 MALMSTROM AFB MT
 STATION STATION NAME

DAILY TEMPERATURES

42-83

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
70						.5	.3						.1
65					.1	.2	4.2	3.1	.2				.7
60					.6	3.5	20.5	15.0	1.6	.2			3.5
55				.1	3.2	18.5	50.0	43.9	11.2	1.2	.1		10.8
50		.1	.2	1.2	13.6	48.3	84.3	77.8	28.2	7.0	1.3	.2	22.1
45	.3	.7	.7	7.5	34.1	78.9	96.1	95.4	52.5	20.0	4.6	1.3	33.0
40	3.2	3.8	3.9	18.4	60.7	93.6	99.6	99.4	75.8	39.7	11.7	6.0	43.3
35	9.4	9.8	13.2	40.2	84.3	98.9	100.0	100.0	89.3	60.3	24.7	13.8	53.9
33	12.2	14.9	19.9	50.8	91.0	99.4			92.9	68.0	31.5	17.4	58.4
30	18.5	23.1	32.5	66.4	96.1	99.9			96.7	79.0	40.7	24.7	65.0
25	28.9	36.7	52.2	83.3	99.1	100.0			99.8	91.0	58.4	38.0	74.1
20	39.2	51.3	67.2	92.9	99.7				100.0	96.8	72.2	51.6	81.0
15	48.2	60.7	75.8	96.7	99.9					99.0	81.4	63.5	85.5
10	55.5	69.1	81.1	98.7	100.0					99.7	87.9	71.2	88.6
5	61.4	76.4	86.0	99.3							91.2	77.3	91.0
0	69.1	83.9	90.2	99.7						99.8	94.2	83.3	93.3
-5	76.5	89.5	93.2	99.8						100.0	96.5	89.0	95.4
-10	83.5	95.2	96.3	100.0							97.9	93.3	97.2
-15	88.9	98.7	97.9								99.2	95.9	98.4
-20	93.2	99.5	99.1								99.8	98.0	99.1
-25	96.5	99.9	99.7								100.0	99.2	99.6
-30	98.9	100.0	99.9									99.5	99.9
-35	99.8		100.0									99.8	100.0
-40	100.0											99.9	100.0
-45												100.0	100.0
MEAN	10.5	16.9	21.4	32.1	41.5	49.0	54.6	53.7	44.8	36.6	25.1	17.2	33.6
S D	19.131	15.222	14.170	8.691	7.133	5.990	5.634	5.703	7.735	9.026	13.529	16.468	18.756
TOTAL OBS	1271	1150	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC
 727755 MALMSTROM AFB MT
 STATION STATION NAME

DAILY TEMPERATURES

42-83

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								.3	.2				.0
80						.2	2.9	2.4	.2				.5
75					.2	1.9	17.1	15.6	1.7				3.1
70				.1	2.0	12.4	46.5	40.4	10.2	.4			9.5
65				.8	8.9	30.0	74.7	68.4	23.7	3.7			17.8
60			.2	4.6	22.4	53.8	92.8	89.1	44.9	12.9	1.0		27.1
55		.4	1.3	13.2	42.7	80.5	98.3	97.2	64.6	29.0	3.9	.2	36.2
50	1.2	2.5	5.7	27.2	66.4	94.1	100.0	99.6	80.5	46.9	11.1	2.5	45.1
45	4.9	8.4	14.9	45.4	84.7	98.9		100.0	90.5	64.5	21.9	8.8	53.8
40	13.9	27.2	31.3	67.1	95.0	99.8			95.4	81.1	39.6	20.6	63.9
35	25.6	36.2	51.8	83.3	98.4	100.0			98.6	89.8	55.3	34.8	73.0
30	37.8	51.1	65.3	91.9	99.7				100.0	95.8	70.5	49.3	80.2
25	49.7	62.1	74.7	96.2	99.9					98.6	83.0	62.9	85.6
20	58.6	71.2	82.0	98.8	100.0					99.4	88.3	71.8	89.2
15	64.8	79.2	86.5	99.5						99.8	92.7	79.0	91.7
10	72.4	85.8	91.1	99.7						99.9	94.2	84.2	93.9
5	78.0	90.5	94.1	99.8						100.0	96.2	89.4	95.7
0	83.2	93.9	96.1	100.0							97.7	92.8	97.0
-5	87.7	97.6	98.7								98.9	95.4	98.1
-10	91.6	99.3	99.7								99.7	98.0	98.9
-15	95.1	99.9	99.8								100.0	99.0	99.5
-20	97.8	100.0	99.9									99.5	99.8
-25	99.6		100.0									99.7	99.9
-30	100.0											99.9	100.0
-35												100.0	100.0
MEAN	20.1	26.9	31.6	43.3	53.0	61.6	68.8	67.6	57.5	48.1	34.7	26.4	44.9
S D	18.579	14.709	14.273	9.865	8.285	7.148	6.271	6.597	9.456	10.151	13.375	15.546	20.034
TOTAL OBS	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

72755 STATION MALMSTROM AFB MT STATION NAME

42-23 YEARS

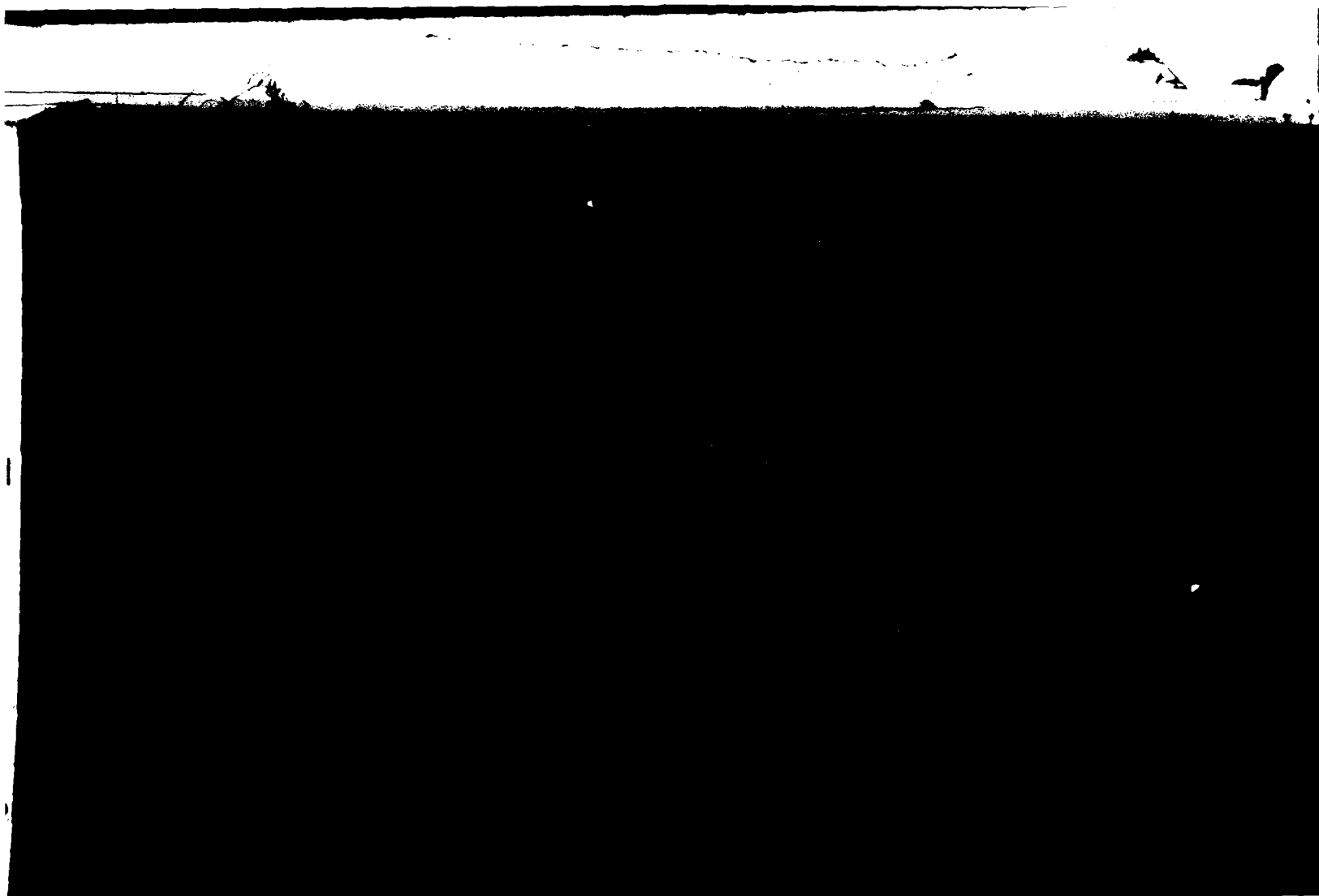
WHOLE DEGREES FAHRENHEIT

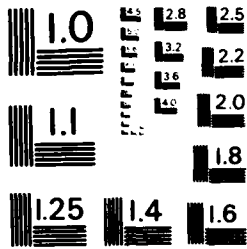
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42													60
43	53	58	68	76	81	81	94	93	88	90	65	55	94
44	65	54	57	76	88	54	94	90	89	80	59	55	94
45	55	54	68	71	80	92	99	95	93			53	
46	54	60	74	84	79	88	97	96	92	65	65	57	97
47	49	59	61	78	83	79	100	96	94	77	73	56	100
48	59	55	57	76	93	89	93	95	92	79	57	49	95
49	51	57	57	72	87	92	92	102	88	73	72	50	102
50	48	68	61	72	81	89	95	89	98	78	69	59	98
51	48	63	59	72	85	82	96	96	86	80	61	53	96
52	47	58	61	93	79	97	97	95	89	82	52	50	97
53	63	56	65	70	86	87	102	96	91	83	73	54	102
54	55	66	61	68	87	91	97	94	86	78	69	58	97
55	53	54	61	68	78	88	98	96	92	81	61	53	98
56	57	54	77	74	86	94	95	94	89	76	66	62	95
57	51	55	62	80	84	88	95	96	90	84	57	62	96
58	67	61	58	71	97	91	98	94	91	81	61	60	94
59	63	47	64	73	80	90	97	92	91	74	65	59	97
60	52	52	71	74	88	87	102	93	89	84	59	56	102
61	59	64	64	64	83	96	94	106	83	80	72	52	106
62	63	64	64	86	74	93	97	98	87	86	75	63	98
63	57	65	76	81	85	89	100	97	92	87	64	50	100
64	58	57	69	76	87	88	95	100	86	86	67	43	100
65	56	59	56	73	77	85	91	95	82	79	67	51	95
66	44	53	73	72	87	93	96	97	92	77	64	56	97
67	51	60	63	54	83	93	93	96	97	74	60	51	97
68	63	65	68	82	71	86	94	90	89	78	61	54	94
69	47	42	63	81	84	91	92	105	94	72	63	64	105
70	45	62	56	72	79	92	96	101	83	82	59	54	101
71	53	53	59	71	81	89	96	98	86	84	68	46	98
MEAN													
S. D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OIA)

(AT LEAST ONE DAY LESS THAN 24 OBS)





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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

72755 MALMSTROM AFB MT
STATION STATION NAME

40-43 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
42														-9
43		-31	-12	-15	26	24	33	44	42	32	29	10	9	-31
44		7	-7	-17	28	29	37	43	45	28	22	5	-6	-17
45		-4	-14	-21	6	30	35	44	46	27	.	.	.	-5
46		-9	4	14	22	27	39	48	45	35	14	-11	-12	-17
47		-24	-16	-26	26	26	42	52	45	27	31	-1	-3	-26
48		-7	-14	-19	15	32	46	47	50	34	25	15	-14	-19
49		-29	-14	-3	29	27	34	49	44	31	11	21	-19	-29
50		-36	2	-13	17	37	42	44	40	26	21	-11	-12	-36
51		-23	-5	-31	6	32	32	43	44	24	12	5	-23	-31
52		-24	-13	1	23	38	40	44	41	40	26	7	10	-24
53		-26	13	3	13	25	41	45	49	37	25	16	10	-26
54		-35	10	-6	-4	14	37	50	45	28	24	12	-3	-35
55		-5	-10	-17	18	30	40	41	48	30	17	-19	-22	-22
56		-20	-24	-13	21	26	45	49	41	34	15	10	-17	-24
57		-32	-15	0	18	38	43	52	44	29	12	17	17	-32
58		15	-3	-2	22	38	44	43	49	36	26	-6	-6	-6
59		-21	-15	21	17	33	43	44	47	28	18	-17	11	-21
60		-4	-19	-19	21	29	43	51	45	36	23	-3	1	-19
61		1	2	8	17	33	45	52	48	28	18	1	-22	-22
62		-37	-18	-14	22	34	43	41	45	34	27	14	-10	-37
63		-27	-14	17	21	31	37	47	44	38	20	-7	-14	-27
64		-15	4	-24	5	39	38	47	41	30	24	-14	-32	-32
65		-19	-12	-20	23	26	31	47	38	23	26	-6	-17	-20
66		-23	-9	-10	13	23	38	45	38	32	20	-7	-15	-23
67		-12	5	-14	4	18	35	40	43	39	26	3	-25	-25
68		-27	-6	16	17	23	38	35	44	33	22	-1	-44	-44
69		-34	-7	-14	20	26	29	44	40	34	18	10	-1	-34
70		-27	1	-16	13	28	32	43	41	27	16	-14	-13	-27
71		-35	-7	-7	17	26	35	39	46	25	-1	-15	-23	-35
MEAN														
S D														
TOTAL OBS														

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-68-5 (OEA)

(AT LEAST ONE DAY LESS THAN 29 OBS)

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 ATR WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

72755 STATION MALMSTROM AFB MT STATION NAME

43-87 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
72	-36	-15	-5	12	27	34	39	47	27	-5	8	-35	-36
73	-19	-6	13	19	29	37	37	42	30	25	-18	-19	-19
74	-37	-2	1	24	31	32	45	40	26	19	10	-2	-37
75	-15	-29	0	-9	30	42	50	41	30	22	-12	-12	-29
76	-15	-13	-23	23	37	38	44	44	32	13	-1	-2	-23
77	-21	18	5	11	24	40	43	36	33	18	-23	-36	-36
78	-15	-21	-26	21	32	39	45	40	32	24	-16	-26	-26
79	-23	-14	1	12	24	37	49	50	40	17	5	-19	-23
80	-22	-5	-7	28	39	37	41	38	32	24	4	-13	-21
81	-5	-19	11	21	31	37	45	42	32	21	8	-17	-19
82	-29	-15	-2	9	30	41	46	46	31	19	-5	-	-29
83	-4	10	11	18	24	44	44	47	29	28	-7	-	-
MEAN	-18.8	-7.8	-6.3	16.5	28.7	37.9	44.5	43.8	31.2	19.8	-1.7	-12.0	-25.8
S.D.	12.967	10.311	13.317	8.352	5.180	4.377	4.019	3.523	4.522	7.261	11.500	13.896	7.726
TOTAL OBS.	1271	1158	1271	1230	1271	1230	1271	1271	1230	1240	1200	1271	14914

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-9 (OIA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-67 YEARS JAN 1960-1960
STATION STATION NAME MONTH HOURS (L. S. T.)
PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)											TOTAL O.S./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
47/57					.7		.1										5	5	
52/51					.7												2	2	
57/49					.7												4	4	
62/47				.3	.2		.1	.1									11	11	
66/45				.3	.8		.4	.2									19	19	3
64/43				.3	.4		.2	.2									16	16	2
62/41			.3	1.2	.6		.6	.6									25	25	4
67/39			.5	1.5	1.5		.7										36	36	19
72/37		.3	.2	2.0	1.2												35	35	19
76/35		.1	1.4	1.9	.5												37	37	28
79/33				1.5	2.7		.4										37	37	40
82/31		.5	2.3	1.3	.0												46	46	23
87/29	.3	1.3	2.4	1.9													55	55	51
91/27		.6	1.6	.3													24	24	52
96/25	.5	2.3	2.7	.2													53	53	51
101/23		1.4	1.7														22	22	59
107/21	.3	1.7	1.4														32	32	68
112/19	.3	2.6	1.8	.2													42	42	73
118/17	.2	2.6	.6														32	32	44
124/15	.2	3.0	1.0														39	39	41
130/13		1.2	.3														16	16	79
137/11	.2	1.6	.3														20	20	59
143/9	.3	3.2	.5														33	33	31
149/7	.1	2.0	.1														21	21	31
155/5	.3	1.6															18	18	22
161/3	.4	1.9															22	22	24
167/1	.4	3.9															40	40	29
173/-1	1.0	1.3															21	21	19
-2/-3	1.0	3.4															41	41	36
-4/-5	1.1	1.5															24	24	26
-6/-7	1.3	1.0															21	21	28
-8/-9	1.9	.3															21	21	25
-10/-11	1.6	.3															18	18	20
-12/-13	.9																8	8	25
Element (X)	ΣX'	ΣX	X	Σ _n	No. Obs.	Mean No. of Hours with Temperature						Total							
Rel. Hum.						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																			
Wet Bulb																			
Dew Point																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72755 STATION MALMSIRØM AFB MT STATION NAME 74-87 YEARS JAN MONTH

PAGE 0000-0200
HOURS (L. P. 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																		
14/-15	1.4																																		17	15	13	37	
16/-17	.8																																		7	7	7	27	
17/-19	.9																																		7	7	7	15	
20/-21	.3																																		3	3	3	12	
22/-23	.8																																		4	4	4	16	
24/-25																																							17
26/-27																																							11
28/-29																																						8	
31/-31																																						1	
32/-33																																						5	
34/-35																																						3	
TOTAL	16	39	619	514	4	7	8	1	7		6	3																								930	930	979	930

Element (X)	$\Sigma X'$	ΣX	Σ	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						$\leq 67 F$	$\leq 72 F$	$\leq 77 F$	$\leq 82 F$	$\leq 87 F$	$\leq 92 F$	
Dry Bulb	3690738	57296	61	613	157	930	18.8	77.3				93
Wet Bulb	595810	17002	18	317	515	930	20.5	81.5				93
Dew Point	483508	18788	15	815	868	930	30.3	82.1				93

FORM DA 4 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-63 YEARS MONTH JAN

PAGE 1 0300-0500
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
50/ 53																		3	3		
52/ 51				.1														3	3		
51/ 46				.7	.1													3	4		
47/ 47				.2	.4													3	3		
46/ 45			.1	.5	1.1													19	19	1	
44/ 43				.9	.7													12	12	1	
42/ 41			.4	1.1	.4													22	22	7	
40/ 39			.4	2.0	1.5													39	39	17	
39/ 37		.2	1.0	1.5	1.1													36	36	21	
36/ 35			1.1	1.6	1.1													35	35	22	1
34/ 33		.1	1.7	1.3	.9													29	29	43	8
30/ 31		.4	3.2	2.0	.3													64	64	45	19
29/ 29	.3	1.7	2.5	.9														43	43	44	18
28/ 27	.2	.9	2.6	.3														37	37	66	22
26/ 25	.3	1.6	2.7	.1														44	44	52	41
24/ 23	.1	1.7	1.7															26	26	52	31
22/ 21	.3	3.7	1.3	.1														44	44	55	39
20/ 19	.3	2.6	1.0															36	36	36	76
18/ 17	.2	1.8	.9															27	27	33	69
16/ 15	.1	1.0	1.2															30	30	28	48
14/ 13	.2	1.2	.4															17	17	25	51
12/ 11	.2	1.6	.1															18	18	21	49
10/ 9	.4	1.0	.5															27	27	31	43
8/ 7	.4	2.8	.2															32	32	25	26
6/ 5	.4	1.5																18	18	32	15
4/ 3	.1	2.6																25	25	29	23
2/ 1	.5	3.3																36	36	29	37
0/ -1	1.5	1.7																30	30	32	18
-2/ -3	.2	2.8																28	28	30	27
-4/ -5	1.7	1.6																31	31	27	28
-6/ -7	1.4	1.1																23	23	27	21
-8/ -9	1.3	.5																14	14	19	23
-10/ -11	2.3	.2																23	23	27	24
-12/ -13	1.2																	11	11	12	26
Element (X)	Z ₁	Z ₂	I	° ₂	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F										
Dry Bulb																					
Wet Bulb																					
Dew Point																					

FORM 0-26-5 (OL A) REVID PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
AF 64
USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775 STATION MALMSTROM AFB MT 74-87 YEARS JAN MONTH

PAGE 1 0330-0500 HOURS (L. P. Y.)

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
14/-15	.0																	8	9	8	20
16/-17	.3																	7	7	7	10
18/-19	1.2																	11	11	11	23
21/-21	.6																	6	6	6	15
22/-23	.3																	7	7	7	14
24/-25																					1
27/-27	.1																	1	1	1	11
28/-29																					10
31/-31																					2
32/-33																					10
33/-35																					1
34/-37																					2
TOTAL	17.4	37.4	22.3	13.7	7.1	1.0	.8	.2	.2								930	937	933	937	

Element (X)	Σ ₁	Σ ₂	Σ ₃	Σ ₄	No. Obs.	Mean No. of Hours with Temperature					Total	
						≥ 6 F	≥ 22 F	≥ 67 F	≥ 73 F	≥ 80 F		≥ 93 F
Rel. Hum.	3738969	57607	61.0	11.3	302	937						
Dry Bulb	584865	16605	17.9	17.6	19	930	19.6	72.7				93
Wet Bulb	437955	18729	15.1	15.6	609	930	21.0	81.8				93
Dew Point	291787	5975	6.8	8.1	518	937	71.2	91.9				93

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

702755 STATION MALMSTROM AFB MT STATION NAME 74-83 YEARS MONTH JAN

PAGE 1 0600-0900 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.S./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
54/ 53																		7	7	
52/ 51								.1										1	1	
51/ 49					.1	.2	.2	.1										6	6	
49/ 47					.1	.5	.4	.5	.1									13	13	
47/ 45				.1	.5	.5	.1											12	12	
44/ 43				.2	1.1	.3												15	15	1
42/ 41				.1	1.3	.5												18	19	8
40/ 39				1.1	.9	1.3	.3											33	33	15
38/ 37				.9	1.5	.7	.1											31	31	19
36/ 35				1.3	1.9	.6	.1											37	37	33
34/ 33				.4	1.2	2.8	.7											48	49	17
32/ 31				.9	1.7	2.8	.1											51	51	52
30/ 29	.4	1.1	2.4	.9														44	44	49
28/ 27	.1	1.6	3.4	.2														50	50	73
26/ 25		1.9	2.7	.1														38	39	68
24/ 23		1.8	1.6															32	32	51
22/ 21	.4	1.6	1.1	.1														30	30	43
20/ 19	.5	3.2	1.9															53	53	39
18/ 17	.4	1.6	.5															24	24	37
16/ 15		1.1	1.2															21	21	27
14/ 13	.3	1.7	.2															21	21	23
12/ 11	.3	1.1	.1															14	14	28
10/ 9	.6	2.7	.2															33	33	22
8/ 7	.5	2.5																28	28	33
6/ 5	.3	2.9																22	22	26
4/ 3	.3	3.4																35	35	30
2/ 1	.4	4.1																42	42	34
0/ -1	1.6	1.6																37	30	42
-2/ -3	.5	1.2																16	16	26
-4/ -5	1.1	.6																16	16	12
-6/ -7	.9	1.8																25	25	14
-8/ -9	2.5	.6																29	29	47
-10/-11	1.7																	16	16	22
-12/-13	1.3																	12	12	17

Element (X)	Σx'	Σx	X	°x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 STATION MALMSTROM AFB MT 74-87 YEARS JAN MONTH
 PAGE 2 0600-0800 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
14/-15	1.1																	10	13	10	20
16/-17	.7																	3	3	3	10
18/-19	1.1																	10	17	10	37
20/-21	.2																	2	2	2	15
22/-23	.5																	5	5	5	16
24/-25	.4																	4	4	4	11
26/-27																					4
28/-29																					4
30/-31																					4
32/-33																					7
34/-35																					4
36/-37																					2
TOTAL	18.138	721	314	63	4.7	1.9	.6	.3										930	930	930	930

Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3806718	58158	62,503,638		930	≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	578736	16536	17,807,383		930	17.8	71.6					93
Wet Bulb	433937	18029	15,105,869		930	20.2	83.7					93
Dew Point	290658	6108	6,606,828		930	30.6	82.0					93

USAFETAC FORM 0-26-5 (OLA) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 AFSSAFAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775E MALMSTROM AFB MT 74-83 YEARS JAN MONTH

PAGE 1 2000-1122
 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
57/ 57					.1	.2		.2									7	7		
57/ 51				.1	.4	.2	.1	.2									12	17		
57/ 49					.3	.2	.2										2	2		
47/ 47				.2	.6	.3	.8	.2									22	27		
47/ 45			.1	.2	.5	.9	.2										23	27	4	
44/ 43			.4	.6	.8	1.2	.2										30	37	4	
47/ 41			.1	1.0	.5	.4											21	31	11	
47/ 39		.1	.4	1.0	1.1	.4											37	37	23	
47/ 37			.4	2.4	1.7	.5											47	47	23	
37/ 35		.1	1.0	2.3	.6	.2											39	39	42	
34/ 33			.9	2.4	2.9	.5											62	67	49	
37/ 31	.1	.6	2.4	1.6	.5												49	49	61	
37/ 29	.3	.8	2.3	1.4													44	44	64	
29/ 27		1.4	1.5	.9													35	35	66	
27/ 25		1.8	1.2	.5													33	33	58	
24/ 23	.1	.8	.9														16	16	45	
22/ 21	.6	1.2	1.3	.2													31	31	36	
20/ 19	.4	1.7	1.4	.1													34	34	25	
19/ 17	.4	.8	.2														13	17	12	
16/ 15	.3	1.4	.5														21	21	18	
14/ 13	.1	1.4	.3														17	17	19	
17/ 11	.4	1.6	.2														21	21	18	
17/ 9	1.1	1.9	.1														29	29	29	
8/ 7	.5	3.7															39	39	31	
6/ 5	.2	1.8															19	19	24	
4/ 3	.1	2.6															29	29	27	
2/ 1	.1	5.3															50	54	21	
7/ -1	1.6	1.4															29	24	62	
-2/ -3	.4	2.0															23	23	21	
-4/ -5	.9	2.5															31	31	16	
-6/ -7	1.0	1.2															20	20	31	
-9/ -9	1.2	.1															13	13	22	
-17/ -11	1.5	.2															16	16	17	
-12/ -13	.4																9	4	4	
Element (X)	ΣX^1	ΣX	Σ	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 0-26-5 (OL A) REVID REVISED EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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CLIPAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

722755 MALMSTROM AFB MT 74-87 YEARS JAN MONTH

PAGE 2 0000-1100
HOURS (L. P. A. 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														
14/-15	.2																	0	2	0	24														
16/-17	.5																	5	5	5	16														
18/-19	.6																	6	6	6	12														
20/-21	.3																	3	3	3	17														
22/-23																																			
24/-25	.1																	1	1	1	6														
26/-27	.1																	1	1	1	7														
28/-29	.1																	1	1	1	1														
30/-31																																			
34/-35																																			
36/-37																																			
40/-41																																			
TOTAL	14	37	217	116	63	9	4	7	1	5	5	2					930	937	630	23															

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

Element (X)	Σ X ²	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	3505812	56118	60.315	18	930	≤ 67 F	67 F	73 F	80 F	93 F	
Dry Bulb	692899	19191	20.687	865	930	15.3	63.0				0.7
Wet Bulb	501857	16293	17.335	893	930	19.2	77.5				0.7
Dew Point	302761	7667	8.246	068	930	28.8	91.2				0.7

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FEDERAL BUREAU OF METEOROLOGY
 WEAFETAC
 METEOROLOGICAL SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION WALMSTROM AFB, MT YEAR 19-87 MONTH 1-31
 ADDRESS 1414

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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.	Wet Bulb	Dew Point													
1/-9	1.8																																	
1/-11	.0																																	
1/-17	.4																																	
1/-15	.5																																	
1/-17	.0																																	
1/-19	.1																																	
1/-21																																		
1/-23																																		
1/-25																																		
1/-27																																		
1/-29																																		
TOTAL	5.333	915	314	910	0	9	1	5	1	3	1	6	2																					

Element (X)	Σ X'	Σ X	X	σ _a	No. Obs.	Mean No. of Hours with Temperature										
						≤ 10 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F					
Rel. Hum.	2986115	50745	54	615	292	930										
Dry Bulb	908868	23504	25	319	308	930	0.4	51.2								
Wet Bulb	613839	19171	20	615	236	930	12.2	68.2								
Dew Point	302709	9265	17	085	050	930	26.5	91.3								

USAFETAC FORM 0-26-5 (OLA) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

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STATION MALMSTROM AFB MT YEARS MONTH

PAGE 1 1970-17
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															
67/61																																1	1		
57/59																																	1	1	
57/57																																7	3		
57/55																																17	12		
62/53																																9	7		
57/51																																17	17		
67/49																																24	24		
67/47																																17	17	3	
67/45																																41	41	5	
67/43																																64	44	13	
67/41																																43	43	19	
67/39																																44	46	23	
67/37																																49	49	27	
67/35																																41	41	23	
67/33																																41	41	7	
67/31																																67	67	14	
67/29																																73	33	24	
67/27																																73	33	23	
67/25																																17	12	59	
67/22																																9	9	40	
67/21																																24	24	64	
67/19																																29	25	77	
67/17																																11	21	67	
67/15																																31	31	48	
67/13																																27	27	45	
67/11																																27	27	46	
67/9																																29	29	26	
67/7																																33	33	34	
67/5																																27	27	21	
67/3																																34	34	18	
67/1																																37	37	29	
67/-1																																18	18	22	
-27/-3																																26	26	41	
-47/-5																																17	17	37	
Element (X)	Z _X	Z _X		X		C _X		No. Obs.		Mean No. of Hours with Temperature						Total																			
Rel. Hum.										≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																				
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 34-1 0-26-5 (OLA) REVISION 5/65 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707705 STATION MALMSTROM AFB MT 74-87 YEARS JAN 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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
-7/-7	.3	.5																																51	3	12	14
-8/-9	1.1	1.1																															11	11	16	25	
-7/-11	1.7																																17	17	17	17	
-7/-13	1.1																																10	13	13	11	
-7/-15	.5																																5	5	5	17	
-7/-17	1.1																																11	1	1	23	
-7/-19																																				27	
-20/-21	1.1																																1	1	1	21	
-7/-23																																					
-7/-25																																					
-7/-27																																					
-8/-29																																					
-7/-33																																					
TOTAL	7.1	132.4	17.2	15.5	1.1	9.8	4.5	1.4	.9	.2																							97	97	97		

USAFETAC Form 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X'$	ΣX^2	ΣX	ΣX^3	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F		
Rel. Hum.	2968227	50721	58.5	18.785	930						
Dry Bulb	275351	22999	29.7	18.166	930	1.7	58.8				93
Wet Bulb	591703	18783	20.2	15.119	930	13.3	68.7				93
Dew Point	297837	8874	9.5	15.187	930	26.9	91.3				93

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAJ

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 JAN 1800-2000
STATION STATION NAME YEARS MONTH PAGE 1 HOURS (L. S. Y.)

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
68/ 53																		4	4		
67/ 51																		1	1		
66/ 48																		9	9		
65/ 47																		15	15		
64/ 45																		20	21	1	
64/ 43																		21	21	3	
63/ 41																		35	35	17	
62/ 39																		35	36	23	
61/ 37																		44	44	16	
60/ 35																		34	34	36	
59/ 33																		51	51	48	
58/ 31																		71	71	48	
57/ 29																		57	57	63	
56/ 27																		47	47	77	
55/ 25																		24	24	74	
54/ 23																		26	26	48	
53/ 21																		22	22	45	
52/ 19																		33	33	26	
51/ 17																		14	14	28	
50/ 15																		23	23	19	
49/ 13																		24	24	21	
48/ 11																		21	21	26	
47/ 9																		35	35	25	
46/ 7																		27	27	42	
45/ 5																		19	19	30	
44/ 3																		35	35	32	
43/ 1																		21	21	28	
42/ -1																		31	31	29	
41/ -3																		19	19	27	
40/ -5																		29	29	23	
39/ -7																		17	17	18	
38/ -9																		9	9	17	
37/ -11																		13	13	14	
36/ -13																		7	7	9	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Σ x ²	Σ x	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

5-12

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755
STATION

PALMSTROM AFB MT
STATION NAME

74-87
YEARS

YEARS

JAN
MONTH

PAGE 1 1800-2005
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																				
14/-15	1.7																																			17	12	12	22	
15/-17	.3																																				7	7	7	17
16/-19	.3																																				2	3	3	26
17/-21	.2																																				2	2	2	12
17/-23	.1																																				1	1	1	14
17/-25																																								17
17/-27																																								4
17/-29																																								7
17/-31	.1																																				1	1	1	1
17/-33																																								1
17/-35																																								1
TOTAL	11.535	723	16.3	8.2	1.4	1.4	.4																														929	832	929	929

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature																																
						$\leq 6 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total																										
Rel. Hum.	347788	55417	59.71	13.558	929																																	
Dry Bulb	672918	19282	20.71	7.147	937	15.1	66.7																															93
Wet Bulb	490685	16187	17.41	4.094	929	16.3	79.3																														93	
Dew Point	289667	7626	8.21	5.682	929	28.5	91.4																														93	

USAFETAC Form 0-26-5 (01-A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/AMC

PSYCHROMETRIC SUMMARY

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7 7755 MALMSTROM AFB MT 74-87 JAN
 STATION STATION NAME YEARS MONTH

PAGE 1 71 0-2710
 HOURS (L. S. Y.)

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					
67-65																						4	4		
67-53								.1	.1													4	4		
67-51																						4	4		
67-49									.2													6	4		
67-47					.6	.4	.6															14	14		
67-45					.3	.6	.7	.1														16	16		7
67-43			.1	.4	.4	.4	.4															18	18		3
67-41			.2	1.1	1.7	1.5																35	35		11
67-39			.2	1.7	1.4	.7																32	32		19
67-37			1.2	1.7	1.7	.4																38	38		3
67-35		.5	.4	1.1	.4																	24	24		3
67-33			1.3	2.0	.7																	35	34		4
67-31		.4	3.1	2.7	.7																	41	41		4
67-29	.1	1.9	2.6	1.3	.1																	51	51		21
67-27	.5	.9	2.7	.7																		38	38		19
67-25	.1	1.8	2.5	.1																		42	42		47
67-23	.1	1.4	1.4																			27	27		37
67-21	.4	2.0	1.3	.1																		36	36		53
67-19	.4	1.7	1.2	.1																		53	53		75
67-17	.1	2.0	.6																			26	26		41
67-15		1.5	.5																			19	19		73
67-13	.2	1.1	.9																			27	27		65
67-11		1.2	.5																			16	16		44
67-9	.4	2.9	.5																			49	49		32
67-7	.1	2.4	.7																			29	29		32
67-5	.2	.9																				17	17		22
67-3	.1	2.4																				23	23		26
67-1	.3	2.4																				29	29		18
67-1	2.7	1.9																				39	38		14
-67-3	.5	2.7																				24	24		28
-67-5	1.3	1.3																				24	24		22
-67-7	.9	1.5																				22	22		25
-67-9	1.0	.6																				19	19		24
-67-11	1.2	.1																				13	12		30
Element (X)	Σ X'	Σ X	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total													
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F														
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 2765 MALMSTROM AFB MT 74-87 YEARS MONTH JAN
STATION STATION NAME MONTH

PAGE 1 01-10-23
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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
71/-17	1.4																	17	17	13	12														
74/-15	.9																	5	3	8	22														
77/-17	.8																	7	7	7	9														
77/-19	.5																	5	5	5	16														
77/-21	.1																	1	1	1	13														
77/-23	.2																	2	2	2	14														
77/-25	.2																	2	2	2	15														
77/-27	.2																	2	2	2	13														
77/-29																					4														
77/-31																					1														
77/-33																					6														
77/-35																					2														
77/-37																					1														
TOTAL	14.33	9.42	1.21	4.1	7.2	4.1	.4	.3										970	250	937	937														

Element (X)	ΣX^2	ΣX	\bar{X}	σ_s	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Hum.	3595503	56935	60.72	3.562	930							
Dry Bulb	635527	18214	19.61	7.324	937	17.5	70.2					93
Wet Bulb	468687	15349	16.51	5.226	937	19.7	87.1					93
Dew Point	294203	7029	7.61	6.109	530	29.2	92.0					93

USAFETAC FORM JAN 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707756 MALMSTROM AFB MT

74-87

JAN
MONTH

YEARS

PAGE 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
61																		1	1		
60																		3	3		
59																		10	10		
58																		17	17		
57																		56	56		
56																		48	48		
55																		79	79		1
54																		124	124		11
53																		184	184		70
52																		194	194		37
51																		247	247		93
50																		313	313		111
49																		310	310		109
48																		296	296		35
47																		376	376		47
46																		442	442		133
45																		307	307		107
44																		295	295		192
43																		264	264		348
42																		167	167		287
41																		252	252		457
40																		291	291		634
39																		174	174		474
38																		201	201		457
37																		170	170		474
36																		161	161		341
35																		256	256		393
34																		240	240		249
33																		145	145		153
32																		222	222		165
31																		305	305		238
30																		211	211		159
29																		193	193		240
28																		194	194		221
Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total										
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F										
Dry Bulb																					
Wet Bulb																					
Dew Point																					

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-83 JAN 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														
-4/-7	.8	1.1																145	145	171	191														
-2/-0	1.3	2.3																123	123	178	186														
0/-11	1.4	.1																116	116	136	197														
2/-15	.2																	69	69	73	132														
14/-15	.8																	63	63	63	169														
16/-17	.5																	39	39	39	157														
18/-19	.6																	43	43	43	213														
20/-21	.2																	18	19	18	122														
22/-23	.2																	15	15	15	102														
24/-25	.1																	7	7	7	93														
26/-27	.1																	4	4	4	61														
28/-29	.2																	1	1	1	42														
30/-31	.2																	1	1	1	0														
32/-33																					20														
34/-35																					14														
36/-37																					6														
38/-41																					1														
TOTAL	13.1	36.7	19.7	14.0	8.1	4.5	1.9	.2	.3	.1								7439	7447	7479	7839														

Element (X)	Z ₁	Z ₂	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	27855954	442506	59.514	359	7439	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	5540163	153333	27.617	387	7447	129.2	518.6					744
Wet Bulb	3978767	127985	17.215	456	7439	141.7	627.8					744
Dew Point	2359197	58777	7.915	261	7439	232.6	733.2					744

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 79-87 FEB
 STATION STATION NAME YEARS MONTH
 PAGE 1 0000-0200
 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																	
59																															2						
55								.1																							1						
51							.1		.1																						8						
49							.1		.1																						8						
47						.1	1.0		.1																						23						
45					.1	1.0	.2	.1	.4																							24					
43					1.5	.9	.6	.2																								27					
41					.9	.8	.0	1.1																									25				
40					.6	2.4	.9																														
37				.2	1.7	3.1	.6	.9																													
35					3.0	2.4	.5																														
33		.4	.9		1.8	3.4	.8																														
31			1.7	4.0	2.1	.7																															
29		.7	1.3	3.1	.8																																
27		.5	.7	2.4	.4																																
25		.1	2.2	1.3																																	
23		.8	1.9	1.1																																	
21		.4	3.1	1.5																																	
19		.5	4.5	1.2																																	
17		.4	2.1	.4																																	
15			1.8	.9																																	
13		.4	1.5																																		
11		.4	1.5	.4																																	
9			1.1	.1																																	
7			1.3																																		
5		.4	.4																																		
3		.2	1.4																																		
1		.4	1.9																																		
-1		.6	.6																																		
-3		.5	2.1																																		
-5		.9	1.2																																		
-7		.4	.1																																		
-9		1.8	.1																																		
-11		.4																																			
Element (X)	Z _H ¹	Z _H	X	C _H	No. Obs.	Mean No. of Hours with Temperature																															
Ref. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																									
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 STATION MALMSTROM AFB MT STATION NAME 74-83 YEARS FEB MONTH

PAGE 1 0000-0200 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																	
17-17	.6																																	5	5	5	11
16-15	.4																																	3	3	3	14
15-17	.5																																	4	4	4	17
18-19	.2																																	2	2	2	17
21-21	.1																																	1	1	1	17
22-23																																					
24-25																																					
26-27																																					
28-29																																					
TOTAL	17.634	0.23	3.18	2.8	5.4	1.7	.5																											846	846	846	

Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature					Total	
Ref. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3493728	53106	62.813	765	846		8.7	53.7				84
Wet Bulb	542212	18120	21.413	505	846	10.0	67.3					84
Dew Point	316587	11243	13.314	265	846	18.5	83.2					88

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 PALMSTROM AFB MT 74-97 YEARS FEB
STATION STATION NAME MONTH
PAGE 1 7270-0500
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															
52/ 51							.2																										5	5	
53/ 47					.1		.4																										4	4	
54/ 45				.2	.1		.5																									16	16		
55/ 43				.2	1.1		.5			.1																						24	24	1	
56/ 41				.2	1.5		.9			.1																						23	23	3	
57/ 39				1.1	2.1		.7			.9																						33	33	5	
58/ 37				1.1	2.2		.8			.7																						42	42	7	
59/ 35				1.9	3.1		.9			.1																						49	49	16	
60/ 33	.1	.7	2.5	3.8		.7																										65	65	44	
61/ 31	.2	1.3	4.1	1.3		.7																										46	46	59	
62/ 29	.2	1.2	2.5	1.1		.7																										61	61	73	
63/ 27	.1	1.4	1.7	.2		.7																										42	42	77	
64/ 25				2.6	2.5																											78	78	68	
65/ 23	.1	2.5	1.7																													43	43	46	
66/ 21	.6	1.9	.9																													76	76	50	
67/ 19	.7	2.9	1.5																													23	23	49	
68/ 17	.2	3.3	.5																													43	43	33	
69/ 15	.7	1.7	1.7																													34	34	31	
70/ 13	.1	1.7	.1																													24	24	41	
71/ 11	.1	2.4	.7																													16	16	16	
72/ 9			1.1																													23	23	24	
73/ 7	.7	1.2																														17	17	12	
74/ 5	.2	1.1																														11	11	10	
75/ 3	.5	1.1																														13	13	16	
76/ 1	.9	2.6																														29	29	17	
77/ -1	.6	.9																														13	13	24	
78/ -3	.1	.5																														5	5	6	
79/ -5	.4	.8																														11	11	4	
80/ -7	1.7	.7																														20	20	24	
81/ -9	2.7																															17	17	11	
82/ -11	.4																															3	3	3	
83/ -13	.9																															8	8	8	
84/ -15	.4																															3	3	1	
Element (X)	ΣX^2	ΣX	Σ	$\%_s$	No. Obs.	Mean No. of Hours with Temperature							Total																						
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 34 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AFB WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727756 MALMSTROM AFB MT 74-67 FEB 0309-0500
 STATION STATION NAME YEARS MONTH 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														
17/-17	.4																	3	3	3	17														
18/-19	.2																	2	2	2	9														
21/-21																					17														
22/-23	.2																	2	2	2	9														
24/-25																					2														
26/-27																					4														
32/-33																					2														
TOTAL	11,733	824	718	7	7	3	3	5	4									846			846														
																		846			846														

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Σ H'	Σ H	Σ X	Σ X ²	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	
Rel. Hum.	35198.14	53376	63,173,421		846						
Dry Bulb	703234	20442	29,205,738		846	8.6	53.5				84
Wet Bulb	528175	17637	27,803,781		846	10.1	68.7				84
Dew Point	314799	11903	12,804,467		846	15.5	82.9				84

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7-7755 MALMSTROM AFB MT 74-53 5FF
STATION STATION NAME YEARS MONTH
PAGE 1 2680-0800
HOURS (L. S. P.)

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	
50/ 53																						
47/ 51						.4	.3															
47/ 47					.4	.5																
44/ 45			.4	.2	1.1	.1	.2	.3														
44/ 43			.1	1.3	.4	.1	.1															
42/ 41			.2	1.2	.5	.2	.1															
42/ 39		.1	.2	3.3	.5	.1																
37/ 37		.1	1.4	3.7	1.4	.2																
37/ 35		.5	2.1	2.8	.5	.1																
37/ 33	.1	.5	2.8	1.8	.6	.1																
37/ 31	.1	1.7	4.5	1.1	.4																	
36/ 29	.1	1.7	1.9	1.2																		
37/ 27		2.1	3.1	.1																		
36/ 25	.1	1.3	2.2																			
37/ 23	.2	1.3	1.7																			
37/ 21	.2	3.1	1.7																			
37/ 19	.6	2.1	1.1																			
37/ 17		3.2	1.1																			
36/ 15		1.7	.4																			
34/ 13	.2	1.7	.4																			
37/ 11	.1	2.4																				
37/ 9		1.4																				
37/ 7		2.4																				
37/ 5	.1	.4																				
37/ 3	.3	1.4																				
37/ 1	1.1	2.2																				
37/ -1	.5	.9																				
-3/ -3	.4	.8																				
-4/ -5	.5	.9																				
-6/ -7	.6	.9																				
-8/ -9	2.1	.1																				
-11/ -11	.9	.1																				
-17/ -13	.7																					
-14/ -15	.4																					
Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total										
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F											
Dry Bulb																						
Wet Bulb																						
Dew Point																						

USAFETAC FORM AIR 44 0-26-5 (OLA) REVISED WITHOUT NOTATION OF THIS FORM ARE OBSOLETE

1
2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

747755 MALMSTROM AFB MT 74-67 YEARS FEB 1960
 STATION STATION NAME 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	25-26	27-28	29-30	* 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
17-17	4																			3	17														
16-19	4																			3	17														
17-21																					17														
17-22	4																			3	2														
17-25																																			
17-27																																			
17-29																																			
17-31																																			
TOTAL	10.23	5.62	5.41	9.3	6.4	3.7	.5	.4											846	646	846														

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_n	No. Obs.	Mean No. of Hours with Temperature				Total		
						$\geq 0 F$	$\geq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	3549828	53610	63.4	13.44	846							
Dry Bulb	593316	20144	23.8	15.902	846	9.1	54.2					34
Wet Bulb	523168	17378	27.5	14.724	846	10.3	63.6					64
Dew Point	318853	17617	12.5	14.221	846	16.1	82.7					24

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

53-2

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 2755 MALMSTROM AFB MT 74-97 FEB 1950-1950

PAGE 1 MONTH 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															
-1/-7	.5	.2																0	4	8	18															
-1/-9	1.4	.4																15	15	15	24															
-1/-11	.8																	7	7	9	17															
-1/-13																																				
-1/-15	.5																	4	4	4	17															
-1/-17	.1																	1	1	1	11															
-1/-19	.1																	1	1	1	21															
-1/-21																																				
-1/-23																																				
-1/-25																																				
-1/-27																																				
-1/-29																																				
TOTAL	2.0	3.0	6.1	5.4	16.7	7.0	0.3	4.5	1.7	0.2	0.4							846	846	846	846															

USAFETAC FORM 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3195872	49422	58.405	7.16	846	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	918176	23822	28.207	11.7	846	7.6	42.4					24
Wet Bulb	646176	19996	23.614	7.31	846	8.9	57.1					24
Dew Point	347673	12117	14.318	3.55	846	14.6	87.8					24

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 2755 MALMSTROM AFB MT 74-53 YEARS FEB MONTH

PAGE 1 1970-1971 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															
7-1	.1	1.5																14	14	23	16															
-1/-3		1.1																7	7	11	17															
-3/-5	.6	.2																7	7	11	17															
-5/-7	.1	.0																2	9	6	9															
-7/-9	.4																	3	3	8	11															
-9/-11	.2																	2	2	2	2															
-11/-13																					10															
-13/-15																					10															
-15/-17																					0															
-17/-19																					11															
-19/-21																					7															
-21/-23																					7															
TOTAL	3.126	.116	.311	.917	.413	.029	4.7	7.1	1.7	.6	.1	.1					846		846	845																

Element (X)	Σ X'	Σ X	X	Σ ₂	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2524879	98347	52.917	599	846							
Dry Bulb	1167479	27733	32.917	486	846	4.8	35.8					89
Wet Bulb	764938	22572	26.713	238	846	6.7	47.7					69
Dew Point	354123	13115	15.513	150	846	13.7	79.7					64

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

207765 MALMSTROM AFB MT 74-83 YEARS FEB MONTH
STATION MONTH HOURS (L. S. T.)

PAGE 1500-17.3

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														
7/-1		.6	1.2																15	15	16	16													
-1/-3			1.3																11	11	12	15													
-1/-7		.2	.7																8	3	8	17													
-1/-7		.1	.4																4	4	7	17													
-7/-9		.1	.1																2	2	5	17													
-7/-11		.2																	2	2	2	15													
-7/-13																						5													
-7/-15																						17													
-7/-17																						4													
-7/-19																						12													
-7/-21																						7													
TOTAL	2,225	515	812	611	315	510	240	240	0	4	2							846	246	846															

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	2536868	43956	52.0	17.308	846							
Dry Bulb	1187122	28194	33.3	17.115	846	4.2	39.9					44
Wet Bulb	776474	22940	27.1	13.510	846	5.7	47.7					89
Dew Point	355112	13394	15.8	13.111	846	12.2	80.5					88

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-93 FES
STATION STATION NAME YEARS MONTH
PAGE 1 7170-2310
HOURS (L. S. Y.)

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
59																		1	1	
57																		2	2	
53																		7	7	
51																		1	1	
49																		17	17	
47																		19	19	3
45																		25	25	
43																		32	32	1
41																		22	22	18
39	.1																	41	41	28
37	.1																	55	55	21
35	.1	.2																56	56	43
33		.9																67	67	44
31		1.7																75	75	47
29	.4	1.1																33	33	19
27	.4	1.4																43	43	27
25		1.1																32	32	21
23	.4	2.1																35	35	51
21	.1	3.5																38	38	61
19	.4	3.5																26	26	68
17	.7	1.7																12	12	31
15		1.7																14	14	65
13	.1	3.2																11	11	51
11	.9	.8																17	17	31
9	.1	1.2																12	12	33
7	.1	2.2																20	20	30
5	.4	.6																8	8	9
3	.4	2.0																20	20	12
1	.5	1.4																16	16	17
-1	.7	.8																9	9	13
-3	.9	3.4																28	28	17
-5	.6	.5																9	9	16
-7	.4	.5																7	7	17
-9	.7																	6	6	11

Element (X)	Σ X'	Σ X	I	%	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

17755 MALMSTROM AFB MT 74-97 FEB
STATION STATION NAME YEARS MONTH

PAGE 2100-2300
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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													
7/-11	7																	6	6	6	17													
11/-13	2																	2	2	2	1													
14/-15	2																	2	2	2	15													
17/-17	2																	2	2	2	7													
17/-19	2																	2	2	2	17													
17/-21	4																	3	3	3	7													
17/-23																					6													
17/-25																					1													
17/-27																					2													
17/-29																					2													
17/-73																					2													
TOTAL	9,932	724	628	8	9,6	5,3	9											946	946	646	241													

Element (X)	Σx'	Σx	Σ	Σ _n	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3487985	53089	62,813,609	846	846	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	767629	21901	25,915,417	846	846	7.5	57.1					84
Wet Bulb	571442	18870	22,313,348	846	846	8.3	65.6					84
Dew Point	332641	12069	14,313,780	846	846	14.3	82.7					68

USAFETAC FORM 44 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-97 FEB 1954
STATION STATION NAME YEARS MONTH
PAGE 1 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																	
69																																		1	1		
67																																			4	4	
65																																			4	4	
63																																			7	7	
61																																			8	8	
59																																			19	19	
57																																			47	47	
55																																			53	53	
53																																			77	77	
51																																			124	124	3
49																																			171	171	6
47																																			273	273	19
45																																			273	273	63
43																																			266	266	92
41																																			266	266	155
39																																			329	329	308
37																																			405	405	346
35																																			373	373	424
33																																			399	399	572
31																																			443	443	534
29																																			385	385	547
27																																			278	278	551
25																																			224	224	379
23																																			197	197	326
21																																			214	214	468
19																																			259	259	568
17																																			177	177	191
15																																			137	137	195
13																																			144	144	116
11																																			151	151	171
9																																			92	92	122
7																																			123	123	214
5																																			76	76	118
3																																			143	143	118
Element (X)	Σ X'		Σ X		X		C ₂		No. Obs.		Mean No. of Hours with Temperature						Total																				
Rel. Hum.											± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F																
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY SEARCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

127755 PALMSTROM AFB MT 74-87 YEARS FEB MONTH
 STATION NAME

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			
7/-1	.4	.2																																	176	176	157	142	
7/-1	.4	.2																																	176	176	157	142	
-1/-3	.3	.4																																	114	114	102	111	
-3/-5	.7	.7																																	88	88	57	97	
-5/-7	.5	.5																																	60	69	31	104	
-7/-9	1.1	.1																																	82	82	108	86	
-9/-11	.5	.2																																	37	37	42	96	
-11/-13	.4																																		26	24	24	74	
-13/-15	.2																																			16	16	16	107
-15/-17	.2																																			13	13	13	83
-17/-19	.1																																			10	10	10	17
-19/-21	.1																																			4	4	4	78
-21/-23	.1																																			5	5	5	47
-23/-25																																							
-25/-27																																							
-27/-29																																							
-29/-31																																							
-31/-33																																							
TOTAL	7.93	.82	.81	6.7	0.9	7.8	7.8	1.4	.6	.7	.1	.0	.0																						6768	6768	6768	6768	

Element (X)	Σx^2	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
						= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	25400608	800830	59.2	15.670	6768							672
Dry Bulb	7053144	187314	27.7	16.619	6768	56.3	366.1		5			672
Wet Bulb	4986807	157461	23.3	13.986	6768	66.1	480.6					672
Dew Point	2680710	96034	14.2	13.956	6768	113.7	653.7					672

FORM 0-26-5 (OL A) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: MALMSTROM AFB MT YEARS: 74-83 MONTH: M, B, C
DATE: 0000-0000 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
77/57																		7	7	
77/51						.7		.0										10	17	
77/45					.4	.4		.1										7		
69/47					.7	.4		.0	.2	.1								17	17	
67/45					.4	.4		.0	.3									19	19	3
64/42				.6	1.5	.0		.0	.4									32	32	9
67/41		.2		.4	1.4	1.2		.4										30	37	10
67/40		.4	1.2	2.6	1.0	.4												51	61	77
77/77	.7	1.7	2.4	1.7	1.5	.1												66	66	41
77/35	.4	1.7	4.1	3.7	.0													65	65	13
74/33	.7	2.6	3.4	2.4	.0													68	68	11
77/31	.1	2.4	3.4	1.9	.7													76	76	102
77/29	.5	1.7	3.2	1.8														66	66	103
78/27	.8	2.6	2.9	.2														59	59	18
76/25	.4	2.4	2.4															48	48	11
74/23	1.7	1.5	1.1															36	36	73
77/21	.7	2.7	1.1															48	34	42
77/19	1.1	3.0	.5															45	45	16
77/17	.7	2.7	.1															32	34	33
66/15	.2	1.1	.2															14	14	22
74/13	.5	.3																14	14	15
72/11	.2	1.8																10	10	13
77/9	.7	.8																6	4	17
87/7	.6	.9																14	14	12
77/5	.7	.4																5	4	11
67/3	.5																	5	5	5
77/1	.8																	7	4	9
77/-1	.7	.1																7	1	7
-77/-4	.1																	1	1	3
-47/-5	.3	.2																5	5	4
-67/-7	.1	.4																4	4	4
-87/-9	.1																	1	1	4
-107/-11	.1																	1	1	5
-127/-13	.2																	2	2	2

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Σ X'	Σ X	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

CENTRAL CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 4ALMSTROM AFB MT 74-81 WAC MONTH
 STATION STATION NAME YEARS

PAGE 1 10000000
 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					
16/-15	.0																																								
16/-17	.0																																								
17/-10	.1																																								
17/-21	.2																																								
17/-22	.1																																								
17/-25	.1																																								
17/-27																																									
17/-28																																									
17/-31																																									
17/-33																																									
17/-35																																									
TOTAL	9.6	31.3	27.7	18.1	9.2	5.1	1.1	1.2	.2																												930	970	23		

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 90 F$	$\leq 93 F$	
Rel. Hum.	42913.9	61591	66.2	15.118	930							
Dry Bulb	932651	27231	29.3	2.769	930	2.6	57.2					93
Wet Bulb	717752	23256	25.0	17.417	930	2.9	77.7					97
Dew Point	435913	17383	18.7	10.931	930	5.0	87.7					93

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70775E MALMSTROM AFB MT 74-87 M A C
 STATION STATION NAME YEARS MONTH
 PAGE 0370-0500
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL O.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				
66/ 66																					1	1		
58/ 58																					1	1		
51/ 49								.1													3	3		
47/ 47					.2			.1													9	9		
45/ 45				.3	.4			.4													17	17		
43/ 43				1.1	1.1			.4													24	24	7	
41/ 41				1.9	.9			.4													29	29	12	
39/ 39			.5	1.6	1.7	1.7		.4													56	56	14	
37/ 37			.5	2.0	1.5	1.6		.2													55	55	36	
35/ 35	.1	1.5	2.9	1.9	1.4																88	74	51	
33/ 33	.3	1.5	3.5	2.3	.8																81	81	65	
31/ 31	.3	2.1	5.2	2.4	.8																105	105	84	
29/ 29	.6	1.5	3.0	1.4																	63	63	105	
27/ 27	.6	3.1	3.9	.5																	68	68	105	
25/ 25	.9	3.1	2.5																		60	61	88	
23/ 23	.6	2.7	.5																		60	59	84	
21/ 21	.5	2.9	1.4																		45	45	46	
19/ 19	1.5	1.5	.8																		31	31	43	
17/ 17	.6	2.6	.5																		36	36	27	
15/ 15	.4	1.1	.4																		16	18	23	
13/ 13	.6	1.4																			19	19	19	
11/ 11	.4	1.1	.1																		15	15	18	
9/ 9	.3	1.3	.3																		16	16	14	
7/ 7	.3	.5																			8	9	12	
5/ 5	.4	.4																			8	9	12	
3/ 3	.4																				5	4	1	
1/ 1	.4																				12	12	11	
-1/ -1	.1																				5	5	4	
-3/ -3	.4																				4	4	3	
-5/ -5	.2																				2	2	2	
-7/ -7	.1	.1																			2	2	4	
-9/ -9	.3																				2	2	3	
-11/ -11	.1																				1	1	1	

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

Element (X)	Σ g'	Σ g	X	g _s	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70775E MALMSTROM AFB MT 74-07 700000000
 STATION STATION NAME YEARS MONTH HOURS (L.S.T.)
 PAGE 1

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																												
70/-13	0.2																																				3	3	3	4								
71/-15	0.2																																						3	3	3	3						
71/-17																																								3	3	3	3					
76/-19	0.2																																							3	3	3	3					
77/-21	0.3																																								3	3	3	3				
77/-23	0.1																																									3	3	3	3			
77/-25																																											3	3	3	3		
77/-27																																												3	3	3	3	
78/-29																																													3	3	3	3
77/-31																																													3	3	3	3
77/-33																																													3	3	3	3
TOTAL	10,632	929	215	2	0	0	2	6	0	2	6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930	930	930	930	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 92

Element (X)	Σ X'	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	8876865	62865	67.205	81	930							
Dry Bulb	866671	26165	28.111	858	930	2.7	57.1					93
Wet Bulb	672674	23114	24.920	282	930	3.1	74.5					93
Dew Point	408851	16693	17.910	983	930	5.2	89.1					93

1 GLOBAL CLIMATOLOGY BRANCH
 2 USAFETAC
 AFM WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 48
 STATION STATION NAME YEARS MONTH

PAGE 1 0670-09-10
 HOURS (L. S. Y.)

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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
67/55																		1	1																	
64/53																		3	3																	
62/51																		6	6																	
60/49																		12	12																	
48/47																		11	11																	
48/45																		10	10	1																
47/43																		25	25	5																
47/41																		40	40	12																
47/39																		47	47	21																
46/37																		71	71	31																
45/35																		51	61	66	7															
44/33																		72	72	73	21															
42/31																		104	104	75	45															
41/29																		95	95	102	55															
40/27																		66	66	105	71															
38/25																		48	48	85	73															
38/23																		22	22	71	52															
37/21																		24	36	38	99															
37/19																		43	43	45	104															
36/17																		33	37	33	95															
36/15																		16	16	28	81															
34/13																		15	15	11	46															
33/11																		11	21	22	72															
31/9																		17	17	19	35															
29/7																		10	11	16	23															
27/5																		5	5	6	27															
27/3																		7	7	7	11															
27/1																		13	13	9	17															
27/-1																		2	2	11	9															
-27/-3																		4	4	1	6															
-47/-5																		5	5	8	8															
-67/-7																		3	3	1	2															
-87/-9																		1	1	1	3															
-107/-11																		2	2	2	1															
Element (X)	ΣX'	ΣX	X	C _n	No. Obs.	Mean No. of Hours with Temperature						Total																								
Rel. Hum.						≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																									
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC AFM

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT 74-83 YEARS MAR MONTH

PAGE 2 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	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
17-18	.1																	1	1	1	1														
18-19	.5																	3	3	3	11														
17-17	.1																	1	1	1	2														
18-19	.2																	2	2	2	1														
17-21	.1																	1	1	1	2														
21-23	.1																	1	1	1	2														
24-25	.1																	1	1	1	2														
26-27																					3														
28-29																					2														
32-33																					2														
34-35																					1														
TOTAL	10.832	127.516	1	9.2	3.0	1.7												930		930	93														

Element (K)	$\Sigma X'$	ΣX	Σ	σ_a	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Hum.	4373508	62156	66.875	366	930							
Dry Bulb	895697	26569	28.612	128	930	2.5	56.2					93
Wet Bulb	689882	23419	25.210	406	930	3.9	72.1					93
Dew Point	415929	16933	18.210	763	930	5.5	97.2					93

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-83

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0970-1100
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																
77 59																																	15	15		
77 67																																	20	20		
77 85																																	27	27		
77 63																																	21	21	3	
77 61																																	37	37	1	
77 59																																	46	46	9	
77 57																																	57	57	10	
77 55																																	46	46	38	
77 53																																	57	57	46	
77 51																																	62	62	56	
77 49																																	73	73	75	
77 47																																	63	63	81	
77 45																																	73	73	75	
77 43																																	63	63	81	
77 41																																	73	73	75	
77 39																																	63	63	81	
77 37																																	73	73	75	
77 35																																	63	63	81	
77 33																																	73	73	75	
77 31																																	63	63	81	
77 29																																	73	73	75	
77 27																																	63	63	81	
77 25																																	73	73	75	
77 23																																	63	63	81	
77 21																																	73	73	75	
77 19																																	63	63	81	
77 17																																	73	73	75	
77 15																																	63	63	81	
77 13																																	73	73	75	
77 11																																	63	63	81	
77 9																																	73	73	75	
77 7																																	63	63	81	
77 5																																	73	73	75	
77 3																																	63	63	81	
Element (X)	Σ X ²			Σ X	X	Σ X	No. Obs.											Mean No. of Hours with Temperature						Total												
Rel. Hum.																																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 7755 MALMSTROM AFB MT 74-87 MAR
 STATION STATION NAME YEARS MONTH

PAGE 1 1970-11-7
 HOURS (C. 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														
1/-1		.9																4	4	3	2.5														
2/-1	.1	.2																7	5	3	2														
3/-1		.5																5	5	3	1														
4/-1	.1	.1																2	2	1															
5/-1	.1																	1	1	1	1														
6/-1	.1	.1																2	2	2	4														
7/-1	.3																	1	1	3															
8/-1	.2																	2	2	2															
9/-1	.2																	2	2	2															
10/-1	.2																	2	2	2															
11/-1	.2																	2	2	2															
12/-1	.2																	2	2	2															
13/-1	.2																	2	2	2															
14/-1	.2																	2	2	2															
15/-1	.2																	2	2	2															
16/-1	.2																	2	2	2															
17/-1	.2																	2	2	2															
18/-1	.2																	2	2	2															
19/-1	.2																	2	2	2															
20/-1	.2																	2	2	2															
21/-1	.2																	2	2	2															
22/-1	.2																	2	2	2															
23/-1	.2																	2	2	2															
24/-1	.2																	2	2	2															
25/-1	.2																	2	2	2															
TOTAL	5.2	23.0	16.6	14.8	13.1	14.0	7.1	3.7	1.1	1.2	.2							937	937	937															

Element (X)	ΣX^2	ΣX	Σ	σ^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						= 6 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	3334434	52856	56.8	78.859	937							937
Wet Bulb	1337455	32241	35.3	3.832	937	2.0	33.0	.4				937
Dew Point	918646	27498	29.6	0.661	937	2.2	52.0					937
	465198	18506	19.9	0.216	937	3.1	88.8					937

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC AIR 54

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/AMC

PSYCHROMETRIC SUMMARY

70775 MALMSTROM AFB MT 74-27 YEARS MAR MONTH

12 0-14.3 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															
7/ 7		.3																3	7	6	21															
7/ 5		.3																3	7	1	20															
7/ 7		.3																3	7	4	17															
7/ 1																					17															
7/ -1	.4	.2																6	6	4	1															
-7/ -3		.2																2	2	2	1															
-7/ -5	.1	.3																4	5	3	7															
-7/ -7		.2																2	2	3	7															
-7/ -9																					1															
-17/-11																					5															
-17/-13																					4															
-17/-15																					1															
-17/-17																					1															
-17/-19																					1															
-17/-21																					1															
-17/-22																					1															
TOTAL	2.2	17.9	12.3	11.4	17.4	13.6	17.0	9.7	5.9	2.5	.8	1.2	.1					929	929	929	929															

Element (X)	Σx'	Σx	Y	Σ _a	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2590869	85413	88.979	992	929							
Dry Bulb	1698473	37445	40.314	329	930	1.5	24.5	1.1	.2			93
Wet Bulb	1076139	30167	32.517	199	929	1.4	41.7					93
Dew Point	466136	18784	27.2	9.645	929	2.6	87.9					93

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

747795 KALMSTROM AFB MT

74-87

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1 0-17 00
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															
75																																2	2		
73																																1	1		
69																																3	3		
67																																4	4		
65																																17	10		
63																																17	13		
61																																17	17		
59																																26	26		
57																																42	42		
55																																40	40		
53																																28	29	2	
51																																46	46	3	
49																																58	59	11	
47																																68	68	19	
45																																77	77	27	
43																																59	59	54	
41																																76	76	61	
39																																72	72	68	
37																																41	41	88	
35																																76	76	73	
33																																76	76	98	
31																																47	47	86	
29																																70	70	52	
27																																8	8	46	
25																																24	24	43	
23																																14	14	24	
21																																25	25	16	
19																																9	9	24	
17																																11	11	15	
15																																17	17	13	
13																																13	13	16	
11																																6	6	5	
9																																5	5	13	
7																																3	3	2	
Element (X)	ΣX	ΣX^2	X	X^2	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						$\leq 6 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$																								
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
 WAFETYAC
 AIR WEATHER SERVICE / MAC

PSYCHROMETRIC SUMMARY

19755 MALMSTRON AFB MT 74-67 MAR MONTH

PAGE 1500-170
 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														
5			3																		2	14													
3																					4	13													
1																																			
-1			5															3	9	3	1														
-3																		2	7	7															
-5			1	2														3	3	3															
-7				1														1	1	1															
-11																						7													
-13																						4													
-15																						2													
-17																						1													
-19																						1													
-21																						1													
TOTAL	2	15	6	13	5	11	4	11	7	2	10	5	6	1	2	7	1	1				929	929												

Element (X)	Σ X'	Σ X	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2502611	44485	47.92	0.038	929							
Dry Bulb	1746298	38102	41.02	0.114	929	1.5	23.1	1.0				93
Wet Bulb	1099088	30580	32.9	0.283	929	1.8	37.5					93
Dew Point	468308	18858	20.3	0.608	929	2.7	86.8					93

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/AMC

PSYCHROMETRIC SUMMARY

737755 MALMSTROM AFB MT

74-93

STATION

STATION NAME

YEARS

MONTH

PAGE 1 14-9-2000
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															
97/60																														1	1				
96/65																														1	1				
94/63																														1	1				
92/61										.1	.1																		1	1					
91/59										.1	.1																		1	1					
89/57										.1	.1																		1	1					
87/55										.1	.1																		1	1					
85/53										.1	.1																		1	1					
83/51										.1	.1																		1	1					
81/49										.1	.1																		1	1					
79/47										.1	.1																		1	1					
77/45										.1	.1																		1	1					
75/43	.1	.4	.9	1.2	1.5	1.7	.8																						1	1					
73/41	.2	.3	1.8	1.7	1.3	.5																							1	1					
71/39	.1	.2	2.3	2.8	2.3	1.2																							1	1					
69/37	.1	.5	1.7	1.5	2.6	.6																							1	1					
67/35		.3	3.3	2.3	1.7	.3																							1	1					
65/32		1.7	2.4	1.6	1.1																								1	1					
63/30		2.5	2.6	2.7	.7																								1	1					
61/29		1.4	2.2	.1																									1	1					
59/27		1.4	1.1	.3																									1	1					
57/25	.8	1.9	.8																										1	1					
55/23	.1	.6	.5																										1	1					
53/21	.2	1.9	1.2																										1	1					
51/19	.2	1.5	.8																										1	1					
49/17		1.3	.1																										1	1					
47/15	.2	1.5	.2																										1	1					
45/13	.4	.6	.2																										1	1					
43/11	.1	.5																											1	1					
41/9		.3	.2																										1	1					
39/7	.1	.6																											1	1					
37/5		.2																											1	1					
35/3	.1	.5																											1	1					
33/1		.2																											1	1					
Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_X	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-07 MAC MONTH

PAGE 1 18-0-2000 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														
1/-1			.2															2	2	2	2														
-2/-2			.2															2	7	6	6														
-4/-6																					3														
-6/-7		.1																1	1	1	1														
-8/-9		.4																4	4	4	4														
-1/-11		.1																1	1	1	1														
-11/-13		.1																1	1	1	1														
-14/-15		.1																1	1	1	1														
-16/-17																																			
-17/-19																					4														
-21/-23																					1														
-24/-25																																			
TOTAL	7.4	22.0	22.0	15.5	16.0	9.6	6.6	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	930	930	930	930															

USAFETAC FORM 0-26-5 (OLA) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Zg'	ZR	R	Pa	No. Obs.	Mean No. of Hours with Temperature						Total
						+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	
Rel. Hum.	1397533	53183	57.2	18.155	937							
Dry Bulb	1321519	33147	35.5	12.580	937	1.7	31.2	.1				93
Wet Bulb	923983	27943	29.9	9.965	937	1.9	52.4					93
Dew Point	480051	18067	20.4	10.018	937	3.6	85.6					93

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

74-87

MEMO

STATION

STATION NAME

YEARS

MONTH

PAGE

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
76/ 76																		2	2	
74/ 73																		2	2	
72/ 71																		2	2	
70/ 69																		7	7	
68/ 67																		12	12	
66/ 65																		29	29	
64/ 63																		35	35	
62/ 61																		37	37	
60/ 59																		66	66	
58/ 57																		172	172	
56/ 55																		139	139	
54/ 53																		116	116	0
52/ 51																		169	169	11
50/ 49																		211	211	18
48/ 47																		272	272	57
46/ 45																		298	298	105
44/ 43																		347	347	144
42/ 41																		470	470	237
40/ 39																		474	474	385
38/ 37																		476	476	468
36/ 35																		553	553	566
34/ 33																		513	513	669
32/ 31																		581	581	741
30/ 29																		420	420	748
28/ 27																		331	331	640
26/ 25																		294	294	537
24/ 23																		190	190	409
22/ 21																		253	253	255
20/ 19																		271	271	269
18/ 17																		144	144	188
16/ 15																		114	114	145
14/ 13																		129	129	131
12/ 11																		104	104	119
10/ 9																		61	61	177
Element (X)	Σ X'	Σ X	X	° X	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-3 (OLA) REVISED THROUGH EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AFB WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: 702755 HALLMSTROM AFB MT STATION NAME: YEARS: 74-87 MONTH: MAR
 PAGE: 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				
7																																				65	55	71	174	
5																																				31	31	44	119	
3																																				29	19	34	49	
1																																				40	40	33	73	
-1																																				32	33	35	37	
-3																																				28	28	31	25	
-5																																				24	25	33	39	
-7																																				17	17	17	19	
-9																																				12	10	15	17	
-11																																				8	8	8	27	
-13																																				17	17	17	34	
-15																																				17	12	12	30	
-17																																				4	4	4	17	
-19																																				8	8	8	17	
-21																																				7	7	7	17	
-22																																				3	3	3	17	
-25																																				0	0	0	17	
-27																																								
-29																																								
-31																																								
-33																																								
-35																																								
TOTAL	6.4	25.6	21.3	15.5	11.7	7.8	5.7	3.2	1.0																											7438	7441	7435		

Element (X)	Z ₁ '	Z ₂	Z ₃	Z ₄	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 60 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	28903178	491816	59.8	18.9	7438							
Dry Bulb	9828287	257356	33.7	13.7	7438	17.1	319.8	2.6	.5			7438
Wet Bulb	6978800	211258	28.5	10.6	7438	19.7	465.8					7438
Dew Point	3602430	144368	19.4	10.3	7438	32.0	702.3					7438

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-87
STATION STATION NAME YEARS
PAGE 1 2040-0700
APR MONTH
HOURS (L. S. T.)

Table with columns: Temp. (F), WET BULB TEMPERATURE DEPRESSION (F) (0-31), TOTAL D.B./W.B., TOTAL Dry Bulb, Wet Bulb, Dew Point. Rows include temperature ranges from 67 to -1 and summary statistics for elements like Rel. Hum., Dry Bulb, Wet Bulb, and Dew Point.

USAFETAC FORM 34 0-26-5 (OL A) REVISION PREVIOUS EDITION OF THIS FORM ARE OBSOLETE

2
57

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

74755 MALMSTROM AFB MT 74-83 APR MONTH

PAGE 1 0000-2300 HOURS (L. S. Y.)

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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
-2 / -7																																				
-2 / -9																																				
-2 / -11																																				
-11 / -15																																				
TOTAL	7	15	623	723	114	7	8	7	5	7	2	7						900	900	900	900															

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3773057	56197	62.90	7.138	900	= 6 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	1389120	34158	38.70	10.155	900	3	22.6	1				90
Wet Bulb	1024340	29550	32.8	7.759	900	3	39.8					90
Dew Point	620106	22650	25.2	7.864	900	8	78.9					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 48P
STATION STATION NAME YEARS MONTH

PAGE 1 1300-0500
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	
61																						
59																						
57																						
55																						
53																						
51																						
49																						
47																						
45																						
43																						
41																						
39																						
37																						
35																						
33																						
31																						
29																						
27																						
25																						
23																						
21																						
19																						
17																						
15																						
13																						
11																						
9																						
7																						
5																						
3																						
1																						
-1																						
-3																						
-5																						
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature						Total			
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 88 F	≤ 93 F				
Dry Bulb																						
Wet Bulb																						
Dew Point																						

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR FATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775F MARMSTROM AFB MT 74-87 403
 STATION STATION NAME YEARS MONTH
 PAGE 0300-0500
 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														
-1/-7																						1													
-5/-9	.1																					1													
-14/-15																						1													
TOTAL	7.220	3.328	9.222	11.222	5.4	2.2											900				900														

Element (X)	Z ₁	Z ₂	X	° ₂	No. Obs.	Mean No. of Hours with Temperature				Total		
Ref. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	4119140	59216	65.8	5.749	900		29.2					90
Wet Bulb	1238957	32283	35.9	9.497	900	.3	48.8					90
Dew Point	986256	28390	31.5	7.510	900	.3	80.0					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7705 MALMSTROM AFB MT

74-87

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 7006-08-7
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL O.S./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
47 72																		1	1	
72 71																		1	1	
72 67																		1	1	
67 65																		2	2	
66 63																		5	5	
67 61																		1	1	
67 59																		6	6	
67 57																		9	9	
67 55																		9	9	
67 53																		20	20	1
67 51																		19	19	1
67 49																		31	31	4
67 47																		38	38	9
67 45																		43	43	16
67 43																		53	53	71
67 41																		89	89	47
67 37																		74	74	57
67 35																		72	72	77
67 33																		58	58	134
67 31																		78	78	103
67 29																		65	65	114
67 28																		37	37	85
67 27																		10	10	44
67 25																		18	18	72
67 23																		13	13	23
67 21																		16	16	15
67 19																		17	17	19
67 17																		7	7	11
67 15																		6	6	8
67 13																		10	10	7
67 11																		7	7	10
67 9																		1	1	3
67 7																		4	4	4
67 5																		4	4	4
Element (X)	Σ X'	Σ X	X	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total									
Rel. Hum.						≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-83 APR 1974

PAGE 2 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	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
4/ 3	.2																																		
7/ 1	.1																																		
7/ -1	.3																																		
-7/ -3																																			
-4/ -5																																			
TOTAL	6.4	19.3	25.2	18.4	16.1	9.0	2.9	1.7	.7	.1	.1	.1						900		900															

Element (K)	Z _g '	Z _h	I	e _s	No. Obs.	Mean No. of Hours with Temperature					Total	
Ref. Num.						≤ 6 F	≤ 22 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1411195	34337	43.7	16.6	900	.3	21.7	.3	.1			9.7
Wet Bulb	1051145	29873	33.2	8.1	900	.3	38.5					9.0
Dew Point	656112	23318	25.9	7.6	900	.5	77.0					9.0

USAFETAC FORM 0-26-5 (OLA) 1 MAR 64

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GLOBAL CLIMATOLOGY BRANCH
USAFSTAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

74-83

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100
HOURS (L. S. Y.)

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															
66/ 55																.1															1	1			
67/ 53																																1	1		
67/ 55																																3	3		
75/ 77																							.1									2	2		
76/ 75																																3	3		
74/ 73																							.1									6	6		
77/ 71																								.4								9	9		
77/ 69																								.1								12	12		
67/ 67																								.4								13	13		
66/ 65																								.4								16	16		
64/ 63																								.2								27	27		
62/ 61																								.2								34	34		
67/ 59																								.7								37	37		
68/ 57																								.7								42	42		
66/ 55																								.6								42	42	12	
64/ 53																								.6								53	53	9	
62/ 51																								.1								51	51	29	
60/ 49																								.9								64	64	27	
68/ 47																								.2								52	52	63	
46/ 45																								.1								66	66	62	
44/ 43																								.5								49	49	77	
42/ 41																								.3								63	63	64	
40/ 39																								.3								47	47	92	
38/ 37																								.2								44	44	96	
36/ 35																								.8								37	37	110	
34/ 33																								.4								28	28	64	
32/ 31																								.1								22	22	70	
30/ 29																								.2								8	8	35	
28/ 27																								.6								14	14	17	
26/ 25																								.9								7	7	13	
24/ 23																								.2								8	8	11	
22/ 21																								.3								14	14	13	
20/ 19																								.4								5	5	11	
18/ 17																								.4								5	5	4	
Element (X)	X _g ²	X _g	X	X _a	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM NO. 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFSTAC

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3

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70775 MALMSTROM AFB MT 74-87 APR 1987-11-0
STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

PAGE 1 1987-11-0
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		
14/ 15	.3	.3																		4	4	6	4
10/ 13		.1																		1	1	2	2
10/ 11	.3																			3	3	3	16
10/ 9	.1	.2																		3	3	1	8
5/ 7	.4																			4	4	6	2
6/ 5	.2																			2	2	2	5
4/ 3																							4
TOTAL	2.211	211.412	211.316	325.2	9.0	5.0	3.7	2.0	1.2	.2	.2	.1	.2						900	900	900	900	
Element (X)	$\Sigma X'$	ΣX^2	ΣX^3	ΣX^4	No. Obs.	Mean No. of Hours with Temperature					Total												
Rel. Hum.	2532772	44312	49,219,761	900	20 F	32 F	67 F	73 F	80 F	93 F	Total												
Dry Bulb	2126008	42198	46,982,908	900		10.0	4.8	1.6	.2		90												
Wet Bulb	1367546	34236	38,78,517	900		19.9					90												
Dew Point	689521	21919	26.6	7,738	900	73.3					90												

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT
STATION STATION NAME

74-87
YEARS

ADL
MONTH

PAGE 12 0-14
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL O.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															
07 89																														.1	1	1			
167 87																															.1	2	2		
267 85																																			
367 83																																			
467 81																																			
567 79																																			
667 77																																			
767 75																																			
867 73																																			
967 71																																			
1067 69																																			
1167 67																																			
1267 65																																			
1367 63																																			
1467 61																																			
1567 59																																			
1667 57																																			
1767 55																																			
1867 53																																			
1967 51																																			
2067 49																																			
2167 47																																			
2267 45																																			
2367 43																																			
2467 41																																			
2567 39																																			
2667 37																																			
2767 35																																			
2867 33																																			
2967 31																																			
3067 29																																			
3167 27																																			
3267 25																																			
3367 23																																			
Element (X)	Z ₁	Z ₂	Z	C _a	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 6 F	≤ 32 F	≥ 67 F	≥ 72 F	≥ 80 F	≥ 92 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM 0-26-5 (OL A) REVIDED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72755 STATION HALLSTROM AFB MT STATION NAME 74-83 YEARS APR MONTH

PAGE 1 1999-1999 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		
77/21		.3																		3	3	6	63
77/19		.2																		2	2	2	74
77/17		.3																		3	3	4	5
76/15																				1	1	1	40
74/13	.1	.2																		3	3	1	31
73/11	.3	.1																		4	4	5	17
71/9	.3	.1																		4	4	5	5
71/7	.1																			1	1	1	11
71/5																							4
71/3																							1
TOTAL	1.2	6.6	9.8	7.2	7.6	8.7	12.2	15.5	11.3	5.6	5.7	4.0	2.6	.9	.0	.0	.0	.0	.0	899	899	899	899
Element (X)	Σ X'	Σ X	Σ X ²	Σ X ³	No. Obs.	Mean No. of Hours with Temperature					Total												
Rel. Hum.	1874851	36829	81.720	191	899	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total											
Dry Bulb	2674687	46785	52.713	358	900	6.5	13.1	5.9	1.5			90											
Wet Bulb	1532795	36339	47.4	8436	899	12.1						90											
Dew Point	655389	23255	25.9	743	899	74.1						90											

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 WFFETAC
 AT&S WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

2

77755 MALMSTROM AFB MT

74-83

YEARS

APP

STATION

STATION NAME

PAGE 1 1970-1970

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																
66																																2		2			
67																																			1	1	
68																																			4	4	
69																																			6	6	
70																																			15	15	
71																																			11	11	
72																																			14	14	
73																																			22	22	
74																																			12	12	
75																																			27	27	
76																																			26	26	
77																																			21	21	
78																																			26	26	
79																																			27	27	
80																																			26	26	
81																																			31	31	
82																																			26	26	
83																																			26	26	
84																																			26	26	
85																																			26	26	
86																																			26	26	
87																																			26	26	
88																																			26	26	
89																																			26	26	
90																																			26	26	
91																																			26	26	
92																																			26	26	
93																																			26	26	
94																																			26	26	
95																																			26	26	
96																																			26	26	
97																																			26	26	
98																																			26	26	
99																																			26	26	
100																																			26	26	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
 LC AFETAC
 APO WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7 7755 MALMSTROM AFB MT 74-87 YEARS ADJ MONTH

PAGE 1 10-0-2000 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															
10/ 10	.0	.1																1	1	6	42															
10/ 12	.0	.1																5	5	11	23															
10/ 11	.0	.1																1	1	5	17															
10/ 9	.0	.1																1	1	2	16															
10/ 7																					4															
10/ 5																					4															
10/ 3																					7															
10/ 1	.1																	1	1	1	3															
10/ -1	.1																	1	1	1	3															
10/ -3																					1															
TOTAL	1.3	0.7	12.7	8.3	12.6	17.6	17.7	11.9	6.8	4.6	3.4	2.4	1.0	.5		.1	9.0	9.0	9.3	9.0																

Element (X)	Z ₁	Z ₂	X	T ₂	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2344113	81019	46.62	273	900							
Dry Bulb	2250119	43571	48.31	210	900	.1	7.6	9.7	2.2	.2		90
Wet Bulb	1406033	34893	38.7	8183	900	.1	18.2					23
Dew Point	669217	23441	26.0	8179	900	.1	73.0					93

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

227755 HALLSTROM AFB MT

74-87

APR
MONTH

PAGE 1 21 0-23 0
HOURS (L. S. Y.)

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					
71																					1	1			
67																						1	1		
63																						6	6		
61																						14	14		
59					.1	.1	.3	.4	.7	.4												19	19		
57								.8	1.3	1.0	.4											34	34		
55					.2	.2	.2	1.3	.9	.1												27	27		
53				.1	.2	.4	1.3	1.9	.4	.8												44	44		
51				.2	.2	.4	1.4	1.7	.6													41	41		
49				.7	.3	1.7	1.3	1.1	.1													47	47	15	1
47				.2	1.6	1.6	2.3	1.2														62	62	72	1
45			.2	.2	.6	2.7	1.7	.2														46	46	74	5
43				.3	1.7	1.4	1.2															42	42	59	13
41			.6	1.7	2.4	2.9	1.3															76	76	67	11
39			.7	2.3	2.3	3.7	.6															87	87	74	13
37			1.8	1.3	2.2	1.7	.2															65	65	96	18
35	.2	1.9	1.1	3.3	1.1																	97	87	105	34
33	.3	2.2	2.6	.9	.4																	57	57	101	67
31		1.9	1.6	1.1	.1																	41	41	98	97
29	.2	1.1	.9	.7																		21	21	77	98
27	.2	1.6	.6	.1																		22	22	82	95
25	.7	.8	.4																			17	17	80	99
23		.7																				3	3	13	56
21		.7																				6	6	8	83
19	.7	.6																				11	11	12	74
17																									67
15	.3	.3																				6	6	11	48
13		.3																				3	3	2	14
11	.2	.3																				5	5	6	5
9		.1																				1	1	1	9
7		.1																				1	1	2	5
5	.1																					1	1	2	1
3	.1																					1	1	1	1
Element (X)	Σ X'	Σ X	X	X	No. Obs.	Mean No. of Hours with Temperature						Total													
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total													
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OL.A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 4-87 APR
 STATION STATION NAME YEARS MONTH
 PAGE 1 ALL
 HOURS (L. S. Y.)

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																																																		
67/ 90																																																																						
68/ 87																																																																						
69/ 85																																																																						
70/ 83																																																																						
71/ 81																																																																						
72/ 79																																																																						
73/ 77																																																																						
74/ 75																																																																						
75/ 73																																																																						
76/ 71																																																																						
77/ 69																																																																						
78/ 67																																																																						
79/ 65																																																																						
80/ 63																																																																						
81/ 61																																																																						
82/ 59																																																																						
83/ 57																																																																						
84/ 55																																																																						
85/ 53																																																																						
86/ 51																																																																						
87/ 49																																																																						
88/ 47																																																																						
89/ 45																																																																						
90/ 43																																																																						
91/ 41																																																																						
92/ 39																																																																						
93/ 37																																																																						
94/ 35																																																																						
95/ 33																																																																						
96/ 31																																																																						
97/ 29																																																																						
98/ 27																																																																						
99/ 25																																																																						
00/ 23																																																																						
Element (X)	ΣX ²		ΣX		Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature										Total																																																			
Rel. Hum.	≤ 9 F										≥ 33 F										≤ 67 F										≥ 73 F										≤ 86 F										≥ 93 F										Total									
Dry Bulb																																																																						
Wet Bulb																																																																						
Dew Point																																																																						

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87
 STATION STATION NAME YEARS

APR
 MONTH

PAGE 1
 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																	
22/ 21	.1	.0	.1																														72	77	86	54	
21/ 19	.4	.5																															69	69	82	64	
19/ 17	.7	.8																															45	45	42	41	
16/ 15	.3	.3	.1																														41	41	53	72	
14/ 13	.2	.3																															35	35	25	17	
11/ 11	.3	.2																															23	23	27	11	
9/ 9	.1	.1																															16	16	21	7	
8/ 7	.2	.2																															17	17	19	8	
6/ 5	.1	.2																															8	8	8	2	
4/ 3	.1																																4	4	5	2	
2/ 1	.1																																2	2	2	1	
0/ -1	.1																																5	5	5	3	
-2/ -3	.2																																1	1	1	4	
-4/ -5	.2																																1	1	1	2	
-6/ -7	.7	.7																															4	4	4	1	
-8/ -9	.7																																2	2	2	1	
-11/-11																																					1
-12/-13																																					1
-14/-15																																					5
-17/-21																																					1
TOTAL	3.7	13.1	116.9	14.4	12.2	10.5	8.9	7.5	4.7	2.6	2.1	1.7	.8	.5	.3	.1	.1																7198	7200	7198		

Element (X)	$\Sigma g'$	Σx	Σ	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$						
Dry Bulb	23498964	382358	53.1	21.153	7198	1.3	117.3	43.0	17.3	3.7		720
Wet Bulb	15422763	318719	44.3	13.508	7200	1.3	220.3					720
Dew Point	10069346	261678	36.4	8.791	7198	1.7	605.5					720
	5192630	185176	25.7	7.719	7198							

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 KALMSTROM AFB MT
STATION STATION NAME

74-87
YEARS

MAY
MONTH

PAGE 1 0000-0000
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
70/ 71																		2	2	
71/ 69									.1	.1	.1							2	2	
72/ 67																		2	2	
73/ 65									.2									4	4	
74/ 63								.4	.1									4	4	
75/ 61						.3	.4		.1									9	8	
76/ 59				.3	.4	1.5	.9	.4										29	29	
77/ 57			.3	.5	.4	1.5	.1	.4	.1	.1								33	33	
78/ 55		.4	.4	1.4	1.6	1.7	.1		.1									46	45	1
79/ 53		.6	.9	.5	1.8	1.7	.3	.2	.1									58	54	17
80/ 51		.4	1.7	2.2	1.5	.6	.3	.2										68	64	29
81/ 49		.6	3.7	1.5	2.7	1.7	.7											88	88	58
82/ 47		.9	3.9	4.7	2.7	.8	.1											109	111	67
83/ 45	.2	2.7	3.2	1.7	1.0	.2												87	87	104
84/ 43	.1	1.8	2.6	2.7	1.1	.3												80	81	92
85/ 41		2.7	3.0	2.4	.5	.3												77	77	121
86/ 39	.1	3.2	2.9	2.2	.4													85	84	107
87/ 37	.2	1.3	1.4	1.1	.5													42	42	110
88/ 35	.9	1.6	1.6	1.1	.7													50	50	75
89/ 33	.4	1.7	1.3	.1														73	33	58
90/ 31	.8	.6	.4	.1														18	18	63
91/ 29	.2	.1																3	3	21
92/ 27																				6
93/ 25			.2															2	2	1
94/ 23																				
95/ 21																				3
96/ 19																				25
97/ 17																				19
98/ 15																				11
99/ 13																				7
100/ 11																				2
101/ 9																				1
TOTAL	2.9	17.5	27.2	21.2	15.6	9.4	7.7	1.9	.9	.4	.2							929	737	929

Element (X)	$\Sigma X'$	ΣX	ΣX^2	ΣX^3	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4340267	61533	66.2	16.885	929	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2732599	42899	46.1	7.607	930		2.3	.6				93
Wet Bulb	1584621	37967	47.9	5.963	929		9.0					93
Dew Point	1159326	32116	34.6	7.271	929		34.1					93

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

1
2
3

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-83 YEARS MAY MONTH

PAGE 1 1300-0500 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															
7/ 69									.1		.2																					4	4		
66/ 67											.1																					1	1		
66/ 65																																1	1		
64/ 63											.2																					4	4		
62/ 61											.3																					4	4		
60/ 59										.2	.5																					8	8		
58/ 57			.3	.2	.1					.4	.7																					16	16		
56/ 55		.1	.6	.4	.5	.6	.3			.1	.7																					26	26		
54/ 53		.5	.5	.6	1.8	1.7	.3			.7	.7																					49	49	10	
52/ 51		.4	1.5	2.2	1.6	.9	.1				.1																					61	61	18	
50/ 49		.3	3.7	1.9	1.4	.6	.3																									71	71	23	
48/ 47		1.7	3.5	3.2	2.2	.5	.1																									98	98	45	
46/ 45		2.4	3.9	2.7	1.7	.2	.1																									92	92	97	
44/ 43		2.9	4.1	2.6	1.1	.5																										103	103	105	
42/ 41	.2	1.5	3.4	2.8	.4																											78	78	120	
40/ 39	.6	3.1	3.3	3.1	.6																											101	101	108	
38/ 37	.5	1.5	2.2	1.2	.4																											54	54	109	
36/ 35	.6	2.8	1.3	1.8																												61	61	90	
34/ 33	.6	2.8	1.0	.6																												55	55	76	
32/ 31	.6	1.6	1.4	.2																												36	36	65	
30/ 29	.3	.1	.1																													5	5	43	
28/ 27		.1																														1	1	16	
26/ 25		.1																														1	1	3	
24/ 23																																		2	2
22/ 21																																			27
20/ 19																																			16
18/ 17																																			15
16/ 15																																			3
14/ 13																																			1
12/ 11																																			1
TOTAL		3.7	21.0	37.9	23.7	11.2	5.2	7.8	.0	.3	.4	.1																				930	930	930	

FORM 44 0-20-5 (O.L.A.) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

Element (X)	$\Sigma X'$	ΣX	Σ	Σ^2	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4677927	64264	69.1	5.979	930	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 92 F	
Dry Bulb	1850159	40933	44.7	7.228	930		4.3	5				93
Wet Bulb	1478351	36679	39.4	5.845	930		12.0					93
Dew Point	1107302	31420	33.8	7.020	930		38.1					93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-83

MAY

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1600-0800

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
70/ 77																		1	1	
76/ 75																		1	1	
77/ 71																		3	3	
71/ 69										.1	.1							4	4	
69/ 67										.1	.1							3	3	
66/ 55										.1	.1							8	8	
64/ 63										.1	.1							14	14	
62/ 61										.1	.1							17	17	
67/ 59										.1	.1							26	26	
66/ 57				.1	.6	1.0	1.4	.7	.7									42	42	2
67/ 55				.1	.6	1.0	1.4	.7	.7									64	64	7
64/ 53		.4	1.2	1.8	2.2	2.7	.6											83	83	19
62/ 51		.8	1.5	2.0	2.5	2.9	.5											73	73	49
60/ 49		.5	2.7	2.3	2.8	1.4	.1											91	91	48
67/ 47		1.7	3.5	2.5	1.8	1.2	.6											89	89	61
66/ 45		1.7	3.1	2.7	1.6	.8												92	92	121
64/ 43	.3	1.7	3.1	1.6	1.2	.1												67	67	124
62/ 41		2.2	1.9	1.2	.2	.3												53	53	111
60/ 39	.2	3.1	1.9	2.2	.8													77	77	91
76/ 37	.3	1.8	1.7	.3	.2													41	41	88
67/ 35	.1	1.4	1.9	.3	.2													29	29	73
64/ 33	.1	1.7	.9	.1														26	26	46
62/ 31	.1	.2	.2	.2														11	11	34
57/ 29	.4	.1																5	5	14
67/ 27																				6
66/ 25		.1																1	1	4
64/ 23																				1
62/ 21																				12
60/ 19																				19
65/ 17																				4
66/ 15																				2
64/ 13																				1
TOTAL	2.2	16.8	22.3	19.4	17.1	12.8	6.1	2.2	.5	.2	.4	.1						930	930	930

Element (X)	Zg'	Zg	I	°s	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4126654	59930	69.4	16.880	930	≤ 6 F	≤ 22 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb	2186826	44482	47.8	7.986	930		1.7	1.2	.2			93
Wet Bulb	1677274	39106	42.3	5.957	930		6.0					93
Dew Point	1212374	32968	35.4	6.857	930		31.3					93

FORM 0-26-5 (O. A.) REVID PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-97 YEARS MAY MONTH

PAGE 1 0900-1100 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																
88/ 87																																	1	1			
86/ 85																																		1	1		
82/ 81																																		1	1		
81/ 79																																		5	5		
78/ 77																																		5	5		
76/ 75																																		9	9		
74/ 73																																		11	11		
72/ 71																																		22	22		
71/ 69																																		26	26		
69/ 67																																		40	40		
68/ 65																																		49	49		
64/ 63																																		51	51		
62/ 61																																		65	65	1	
61/ 59																																		76	76	5	
59/ 57																																		77	77	21	
56/ 55																																		80	80	48	
54/ 53																																		59	58	63	3
52/ 51																																		57	57	94	2
50/ 49																																		65	65	99	19
48/ 47																																		60	60	123	21
46/ 45																																		40	40	116	53
44/ 43																																		33	33	105	62
42/ 41																																		32	32	85	74
40/ 39																																		26	26	53	91
38/ 37																																		13	13	61	100
36/ 35																																		10	10	35	117
34/ 33																																		9	9	21	68
32/ 31																																		6	6	9	112
30/ 29																																		2	2	3	71
28/ 27																																				1	36
26/ 25																																				36	
24/ 23																																				24	
22/ 21																																				18	
20/ 19																																				13	
Element (X)	Z ₁	Z ₂	X	σ _s	No. Obs.	Mean No. of Hours with Temperature						Total																									
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																										
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

FORM 0-26-5 (OL-A) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7.7755 MALMSTROM AFB MT

74-83

MAY

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0000-1100
 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
17/17																				
16/15																				
TOTAL	1.3	8.3	11.5	8.2	9.5	14.4	14.9	15.5	6.7	3.7	1.6	.6	.8	.1	.1	.1	937	937	937	93

Element (X)	Σ X'	Σ X	\bar{X}	s_x^2	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2756965	47279	57.8	19.504	937							
Dry Bulb	2948141	51555	55.4	9.852	937			12.1	3.3	.5		93
Wet Bulb	1984667	42578	45.8	6.166	937		1.3					93
Dew Point	1226030	33094	35.6	7.217	937	32.2						93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

74755 MALMSTROM AFB MT
STATION STATION NAME

74-03

YEARS

DAY MONTH

PAGE 1 120-140
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
87/87																	1	2	2	
86/87																		2	2	
86/85																		3	3	
84/83																		3	3	
83/81																		10	10	
81/79																		17	17	
79/77																		26	26	
78/75																		28	28	
74/73																		29	29	
71/71																		37	37	
70/69																		45	45	
68/67																		57	57	
66/65																		71	71	
64/63																		80	80	2
61/61																		69	69	7
59/59																		67	67	16
58/57																		57	57	46
56/55																		59	59	69
54/53																		40	40	66
52/51																		36	36	124
50/49																		42	42	97
49/47																		30	30	110
46/45																		27	27	174
44/43																		30	30	70
42/41																		19	19	75
40/40																		12	12	38
39/37																		9	9	72
36/35																		9	9	28
34/33																		11	11	19
32/31																		2	2	3
30/29																				1
28/27																				
26/25																				
24/23																				
Element (X)	Σ X'	Σ X	X	X	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-5 (O.L.A.) REVISION 10/67 OF THE FORM AIR OBSOLETE

2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF Weather Service/MAC

PSYCHROMETRIC SUMMARY

70775F HALLMSTROM AFB MT 74-87 M.F.Y. MONTH

PAGE 1 1974-1974 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															
21																																				
19																																				
17																																				
15																																				
13																																				
11																																				
9																																				
5																																				
TOTAL	1.3	5.9	6.6	7.5	6.9	7.4	7.9	8.1	8.6	9.0	8.7	8.3	7.4	5.1	.4	.3	.1	929	929	929	929															

Element (X)	Z ₁	Z ₂	I	σ _s	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2135292	42272	43.32	0.487	929							
Dry Bulb	346479	55036	67.11	0.09	929		2	25.9	12.7	2.9		93
Wet Bulb	2146255	44271	47.7	6.275	929		4					93
Dew Point	118888	32472	35.0	7.619	929		35.3					93

USAFETAC FORM 0-26-5 (OLA) 10-64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-87

MAY

PAGE 1 150-170
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															
77/71																																				
77/69																																				
77/67																																				
76/65																																				
76/63																																				
76/61																																				
TOTAL	1.4	5.1	6.0	6.3	7.0	5.9	9.3	14.7	8.5	7.0	5.4	3.6	2.7	.8	.4		930	937	937	937																
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.	7063105	79135	47.1	21.171	930	* 6 F	* 32 F	* 67 F	* 73 F	* 80 F	* 93 F	93																								
Dry Bulb	3569018	56656	67.9	11.747	930	.4	30.0	13.8	3.7			93																								
Wet Bulb	2174563	44601	49.0	6.189	930	.4						93																								
Dew Point	1171759	32181	34.6	7.015	930		36.5					93																								

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

180756 STATION MALMSTROM AFB MT 74-83 YEARS MONTH MAY
PAGE 1 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														
59/ 87																															1				
60/ 85																																1			
64/ 83																																1			
65/ 81																																5			
67/ 79																																8			
70/ 77																																12			
73/ 75																																16			
74/ 73																																16			
77/ 71																																24			
77/ 69																																26			
79/ 67																																42			
80/ 65																																63			
84/ 63																																54			
87/ 61																																59			
87/ 59																																72			
88/ 57																																78			
88/ 55																																68			
84/ 53																																75			
87/ 51																																65			
88/ 49																																69			
89/ 47																																36			
86/ 45																																37			
84/ 43																																78			
85/ 41																																24			
87/ 39																																22			
83/ 37																																11			
86/ 35																																15			
84/ 33																																3			
87/ 31																																5			
86/ 29																																1			
88/ 27																																			
86/ 25																																			
84/ 23																																			
82/ 21																																			
Element (X)	Σ X ²	Σ X		X		X		No. Obs.		Mean No. of Hours with Temperature							Total																		
Rel. Hum.										≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 16-64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72755 MALMSTROM AFB MT 74-87 MAY 1600-2200
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)
PAGE 1

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														
7/19																						27													
7/17																						9													
7/15																						11													
7/13																						4													
7/11																						7													
TOTAL	1.1	2.5	9.7	9.8	8.5	17.0	11.0	17.1	17.4	7.5	7.0	2.5	1.5	.6		.1		937	937		937														

Element (X)	Z ₁	Z ₂	X	e _s	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2616285	45239	48.0	21.227	937	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1110434	52932	56.9	17.258	937		.6	16.0	5.9	1.3		93
Wet Bulb	2933286	43117	46.4	6.132	937		1.0					93
Dew Point	1211483	32723	35.2	8.743	937		33.2					93

USAFETAC FORM 0-26-5 (O-LA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2
 FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT STATION NAME

74-87 YEARS

MAY MONTH

PAGE 1 21.0-2330 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															
76/ 75																															3	7			
74/ 73																															2	7			
72/ 71																															3	7			
71/ 69																															1	1			
68/ 67										.1	.2	.3																		6	6				
66/ 65										.3	.5	.4	.1																	13	13				
64/ 63							.1	.1	.7	.4	.9																			25	25				
62/ 61							.7	1.7	1.2	1.1	.6	.1																		43	43				
60/ 59		.1		.3	.2	1.2	.8	.4	.2																					30	30				
58/ 57		.4	.3	.4	1.1	1.7	1.1	.5	.2																					58	58		1		
56/ 55		.3	1.1	.9	1.5	1.7	.9	.5	.6																					70	70	16	4		
54/ 53		.2	1.1	1.3	1.2	2.5	.9	.5																						71	71	29	3		
52/ 51		.3	1.2	2.3	1.4	2.5	1.2	.5																							75	75	57	11	
50/ 49		.3	2.8	2.2	2.4	1.2	.6	.1																							89	89	63	14	
48/ 47	.1	1.4	2.1	2.5	1.4	.9	.5																								82	82	92	27	
46/ 45		2.8	1.7	2.7	2.5	.6	.1																								91	91	104	27	
44/ 43		1.6	2.4	1.6	1.7	.6																									67	67	101	67	
42/ 41		2.2	2.3	1.4	.5	.2																									69	67	121	84	
40/ 39	.3	2.6	1.7	1.2	.4	.3																									61	61	104	73	
38/ 37		1.1	1.2	.6	.2																										26	26	86	107	
36/ 35	.4	.3	.3	.2	.1																										13	13	59	105	
34/ 33	.3	1.8	.1																												21	21	34	79	
32/ 31	.5	.1	.1		.1																										8	8	78	98	
30/ 29	.1																														1	1	3	65	
28/ 27																																		2	47
26/ 25																																			32
24/ 23																																		1	23
22/ 21																																			26
20/ 19																																			15
18/ 17																																			15
16/ 15																																			4
12/ 11																																			2
10/ 9																																			1
Element (X)	Σx'	Σx	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

1 GLOBAL CLIMATOLOGY BRANCH
2 USAFETAC
3 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775F MALMSTROM AFB MT

74-87

44 Y
MONTH

PAGE 2 7100-2300
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL O.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	1.6	15.4	19.5	16.9	14.4	15.2	3.2	5.2	3.2	.	.	.4						930	930	930	
Element (X)	Z _X '	Z _X	X	x	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	3768713	56479	60.7	19.095	930	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	2343576	46068	49.5	0.137	930		0.9	1.6	0.6			93									
Wet Bulb	1737432	39826	42.8	5.863	930		4.4					93									
Dew Point	1201361	32671	35.1	7.598	930		32.9					93									

USAFAETAC Form 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 Malmstrom AFB MT

74-PT

YEARS

MAY
MONTH

PAGE 1

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																	
80																																	3	3			
87																																	6	6			
95																																	9	9			
83																																	15	15			
91																																		37	37		
79																																		42	42		
77																																		72	72		
75																																		87	87		
73																																		99	99		
71																																		135	135		
69																																		174	174		
67																																		213	213		
65																																		292	292		
63																																		298	298		
61																																		320	320	11	
59																																		374	374	52	
57																																		433	433	157	1
55																																		472	472	255	10
53																																		452	452	364	21
51																																		480	480	567	76
49																																		536	536	619	135
47																																		535	535	785	142
45																																		497	497	866	307
43																																		448	448	797	479
41																																		358	358	790	607
39																																		400	400	608	680
37																																		206	206	555	786
35																																		193	193	414	815
33																																		163	163	292	661
31																																		90	90	228	867
29																																		17	17	98	495
27																																		1	1	31	383
25																																		4	4	5	334
23																																		4	4	4	181

USAFETAC FORM AIR 84 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

787755 MALMSTROM AFB MT 74-83 4 MAY
STATION STATION NAME YEARS MONTH
PAGE 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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
20 / 21																				2	194
18 / 19																					138
16 / 17																					37
14 / 15																					33
12 / 13																					17
10 / 11																					11
8 / 9																					7
6 / 5																					1
TOTAL	1.0	12.4	16.6	14.2	11.0	10.1	9.3	8.7	6.8	3.9	0.7	1.7	1.0	0.0	0.0	0.1	0.7	7438	7438	7438	
																		7438			7438

Element (X)	Z ₁	Z ₂	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.	26485291	414101	55.7	21.478	7438							
Dry Bulb	21505469	391731	52.6	11.118	7439		11.2	87.9	35.7	8.6		744
Wet Bulb	14816442	328138	48.1	6.763	7438		35.9					748
Dew Point	9478515	259645	34.9	7.469	7438		273.7					744

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775E MALMSTROM AFB MT 74-67 YEARS MONTH JULY

PAGE 1 0000-0000
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																	
78/ 77																																		1	1		
76/ 75																																		1	1		
74/ 73																																		2	2		
72/ 71																																		9	4		
70/ 69																																		1	1		
68/ 67																																		13	13		
66/ 65																																		20	20		
64/ 63																																		33	33		
62/ 61																																		66	56	1	
60/ 59																																		73	73	1	
58/ 57																																		97	97	7	
56/ 55																																		109	109	41	
54/ 53																																		89	89	92	
52/ 51																																		89	89	102	
50/ 49																																		89	89	99	
48/ 47																																		81	81	127	
46/ 45																																		62	62	125	
44/ 43																																		38	38	101	
42/ 41																																		22	22	91	
40/ 39																																		8	8	49	
38/ 37																																		1	1	28	
36/ 35																																				1	1
34/ 33																																					
32/ 31																																					
30/ 29																																					
28/ 27																																					
26/ 25																																					
24/ 23																																					
22/ 21																																					
20/ 19																																					
TOTAL																																					

USAFETAC FORM 0-26-S (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Z ₁	Z ₂	X	n	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4713592	58508	65.115.158		899	= 6 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	2636242	48326	53.8	6.745	899			2.2	3			97
Wet Bulb	2061649	42787	47.6	5.372	899							90
Dew Point	1594111	37359	41.6	6.807	899		8.6					90

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-83 JUN
STATION STATION NAME YEARS MONTH

PAGE 1 7300-2500
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		
74/ 73																		3	3				
72/ 71																		2	2				
77/ 69																		3	1				
67/ 67																		5	5				
76/ 65																		4	4				
74/ 63																		15	16				
77/ 61																		20	30				
67/ 59																		20	57				
77/ 57																		87	87				
56/ 55																		96	96	71	10		
74/ 53																		112	112	63	17		
72/ 51																		96	96	98	28		
67/ 49																		98	98	88	51		
74/ 47																		95	95	127	54		
67/ 45																		87	87	137	78		
74/ 43																		61	61	127	107		
77/ 41																		33	33	88	64		
70/ 39																		12	12	77	109		
78/ 37																		6	6	45	121		
76/ 35																		1	1	16	77		
74/ 33																		1	1	4	48		
77/ 31																		1	1	2	53		
77/ 29																					22		
78/ 27																					11		
76/ 25																					9		
74/ 23																					2		
77/ 21																					4		
TOTAL																					900	900	900

Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	4376537	67853	67.6	14.614	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 86 F	≤ 93 F	
Dry Bulb	2437317	46501	51.7	6.714	900			1	3			93
Wet Bulb	1945566	41588	46.2	5.149	900			2				90
Dew Point	1526650	36600	40.7	6.523	900		10.1					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT STATION NAME

74-87 YEARS

JUN MONTH

PAGE 1 2600-0800 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																	
81/ 81																																		1	1		
79/ 79																																		2	2		
77/ 77																																		3	3		
75/ 75																																		3	3		
73/ 73																																		9	9		
71/ 71																																		16	16		
69/ 69																																		20	20		
67/ 67																																		37	37		
65/ 65																																		39	39		
63/ 63																																		76	76		
61/ 61																																		60	67	8	
59/ 59																																		93	93	22	
57/ 57																																		112	112	55	
55/ 55																																		93	93	87	
53/ 53																																		105	105	172	
51/ 51																																		58	58	150	
49/ 49																																		62	62	177	
47/ 47																																		67	67	114	
45/ 45																																		34	34	173	
44/ 44																																		14	14	91	
41/ 41																																					
39/ 39																																			4	46	104
37/ 37																																			21	94	
35/ 35																																			7	79	
33/ 33																																					
31/ 31																																					
29/ 29																																					
27/ 27																																					
25/ 25																																					
23/ 23																																					
21/ 21																																					
19/ 19																																					
TOTAL	.3	8.7	17.6	17.4	27.8	14.9	10.0	6.0	2.4	1.0	.7																								900	900	900
Element (X)	$\Sigma X'$	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total																										
Rel. Hum.	3674426	55148	61.30	5.927	900	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	900																									
Dry Bulb	2973160	51330	57.0	7.125	900			9.1	1.8	.2		900																									
Wet Bulb	2243157	44699	49.7	5.175	900							900																									
Dew Point	1692926	38612	42.9	6.362	900		5.2					900																									

FORM 10-64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-87 JUN
 STATION STATION NAME YEARS MONTH

PAGE 7 1986-11-27
 HOURS (L. S. Y.)

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																		
77/21																																							
77/19																																							
TAL		2.7	6.4	7.1	9.4	13.3	16.8	15.4	11.1	9.2	4.7	7.3	1.1	.0	.0																								
Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	Z ₅	No. Obs.	Mean No. of Hours with Temperature					Total																											
Rel. Hum.	2258099	42725	47.5	15.990	900	< 0 F	< 32 F	< 67 F	< 73 F	< 80 F	< 93 F																												
Dry Bulb	3897261	58733	65.2	8.718	900			30.8	19.4	5.0		90																											
Wet Bulb	2589901	48733	53.4	5.417	900							90																											
Dew Point	1727123	38919	43.2	7.007	900		5.6					90																											

USAFETAC FORM 44 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFD WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

74-83

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1990-1400
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
92																		3	4	
91																		4	6	
90																		9	9	
97																		27	77	
85																		27	77	
93																		73	33	
91																		74	34	
79																		59	59	
77																		61	61	
75																		55	55	
73																		64	64	
72																		61	61	
70																		78	78	
67																		65	65	6
65																		53	53	1
63																		65	65	63
61																		55	55	73
59																		42	42	89
57																		34	34	69
55																		28	28	170
53																		17	17	172
51																		15	15	201
49																		4	4	21
47																		3	3	58
45																		2	2	76
43																		1	1	13
41																				7
39																				
37																				
35																				
33																				
31																				
29																				
27																				
Element (X)	ΣX^1	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL BUREAU OF SURVEY
 NATIONAL CLIMATOLOGY BRANCH
 WASHINGTON, D. C.
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-67 JULY 1974
 STATION MONTH YEARS

PAGE 1 1974-1974
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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																	
70/25																																						
70/23																																						
70/21																																						
TOTAL	1	1	2	2	4	3	5	3	7	11	7	21	7	14	21	2	2	2	2	4	7	3	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Element (X)	Σ X'	Σ X	X̄	S _x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Rel. Hum.	1631219	35685	39.7	5.512	900							
Dry Bulb	4512798	63132	70.1	9.643	900			57.5	37.1	16.5	.3	
Wet Bulb	2753075	49531	55.0	5.897	900			.8				
Dew Point	1675558	38236	42.5	7.541	900		9.1					

USAFETAC FORM AIR 44 0-26-5 (O L A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AD-A141 229

MALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT... (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. FEB 84

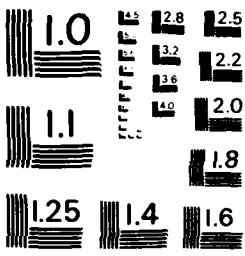
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UNCLASSIFIED

USAFETAC/DS-84/007 SBI-AD-E850 815

F/O 4/2

NL



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

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT 74-97 YEARS JUN
STATION STATION NAME MONTH
PAGE 1 15 1970
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
64/ 83													.4				.3	7	7	
67/ 81													.3				.2	17	11	
70/ 79										.1		.3			.1	.4	.1	15	15	
73/ 77										.1		.4			.4	.6	.1	22	22	
76/ 75										.1		.6			.9	.3		28	29	
79/ 73										.3		.7	1.0		1.0			35	35	
82/ 71										.1		.4	1.6	1.7	1.2		.3	42	47	
85/ 69										.3		1.0	1.2	1.1	1.1		.4	58	59	
88/ 67										.4		1.3	1.2	1.0	1.4	.4	.4	57	57	
91/ 65										.4		1.2	1.8	2.1	.8	.4		71	71	
94/ 63										.5		1.3	1.4	1.4	.9	.1		58	58	
97/ 61										.1		1.4	2.2	2.1	.8	.2	.2	67	67	
100/ 59										.6		1.1	1.8	2.0	.8	.1		69	69	6
103/ 57				.1	.4	.6	1.0	.9	1.9	1.2	.4							61	61	9
106/ 55				.1	.1	.7	.4	.8	1.6	1.4								56	56	2
109/ 53				.1	.1	.7	.4	.8	1.7	1.2	.4							57	57	8
112/ 51				.1	.4	1.0	.9	1.4	1.7	.9								61	61	10
115/ 49				.1	.4	1.0	.9	1.4	1.7	.9								41	41	21
118/ 47				.1	.4	1.0	.9	1.4	1.7	.9								44	44	112
121/ 45				.1	.3	.7	.7	.4	.4	.1								27	27	114
124/ 43				.1	.3	.7	.7	.4	.4	.1								21	21	107
127/ 41				.1	.3	.7	.7	.4	.4	.1								19	19	103
130/ 39				.1	.3	.7	.7	.4	.4	.1								4	4	88
133/ 37				.1	.3	.7	.7	.4	.4	.1								7	7	59
136/ 35				.1	.3	.7	.7	.4	.4	.1								1	1	29
139/ 33				.1	.3	.7	.7	.4	.4	.1										13
142/ 31				.1	.3	.7	.7	.4	.4	.1										6
145/ 29				.1	.3	.7	.7	.4	.4	.1										
148/ 27				.1	.3	.7	.7	.4	.4	.1										
Element (X)	Σ X ²	Σ X	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature														
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total								
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM AIR 34 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-97 YEARS MONTH JUN

PAGE 1 1500-17.0 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															
74/ 25																																				
74/ 23																																				
72/ 21																																				
72/ 19																																				
TOTAL		2.7	3.3	2.7	6.	7.5	8.9	11.	14.	13.	21	7.	6.3	6.6	3.6	2.7	1.7	.9		899	899	899														

Element (X)	$\Sigma X'$	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	1522362	34134	38.0	15.976	899			67.1	40.3	19.5	.7	97
Dry Bulb	4632737	63037	71.1	9.759	899							97
Wet Bulb	2770881	49667	55.2	5.476	899			1.5				97
Dew Point	1646274	37742	42.0	7.881	899		11.3					97

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/AMC

PSYCHROMETRIC SUMMARY

207755 MALMSTROM AFB MT

74-83

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000
 HOURS (L. S. Y.)

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
89												.1			.1			5	5	
87												.3	.1			.1		8	9	
85												.2	.3	.4		.1		12	17	
83												.1	.3	.1	.4			15	15	
81											.1	.1	.3	.4				21	21	
79										.2	.3	1.1	.2	.3	.4			34	34	
77									.3	.4	.7	1.0	1.0	.9	.2			47	47	
75							.1	.7	.9	1.4	1.9	1.1	1.3	.3				69	69	
73							.2	.9	1.4	1.8	1.1	1.1	.6					94	54	
71							.3	.7	1.3	1.2	.8	1.1	.2	.1				59	50	1
69					.1	.4	1.4	1.4	2.1	1.7	.4	.3						68	68	1
67				.4	.2	.8	2.2	1.1	1.6	.7	.7							72	72	5
65			.2	.4	.7	.5	1.6	1.4	1.9	.5								58	58	19
63		.3	.2	.7	1.2	.8	.8	1.1	1.3	.9								67	67	9
61		.2	.3	1.2	1.4	1.4	1.6	1.7	1.1									86	86	75
59		.1	.7	1.2	1.2	1.0	1.1	1.1										64	64	22
57		.5	.2	1.5	1.1	1.7	1.1	.4		.1								59	59	175
55		.4	.3	.4	.7	.8	.4	.7										34	34	116
53		.1	1.3	.4	.4	.4	.8	.2										34	34	114
51		.6	1.2	.7	.1	.1												24	24	99
49		.3	.4															19	19	108
47			.1															4	4	96
45			.1	.1														8	4	88
43																				17
41																				11
39																				
37																				46
35																				62
33																				46
31																				50
29																				28
27																				13
25																				17
23																				2
Element (X)	Z ₁ '	Z ₂	Z	e _s	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

74755 MALMSTROM AFB MT
STATION STATION NAME

74-97

YEARS

JUN
MONTH

PAGE 1 1970-2007
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	0	3.3	6.2	7.3	7.4	10.0	13.8	12.4	13.4	9.0	6.0	4.8	3.2	1.7	.6	.6	.7	900	900	900	900															

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Num.	2188288	81152	45.7	18.386	900							
Dry Bulb	4793152	60136	66.8	9.134	900			45.5	26.5	7.7		90
Wet Bulb	2654677	48625	54.0	5.531	900			.7				90
Dew Point	1729783	38767	43.1	8.164	900		10.7					90

USAFETAC FORM 44 JUL 64 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-83

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 210-23.0
 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
66/ 83																		1	7	
67/ 79																		1	5	
70/ 77																		1	7	
74/ 73																		1	9	
77/ 71							.7	.6	.9	.7	.7	.7						33	33	
77/ 69							.9	.9	.9	.6	.7	.1	.1					43	34	
78/ 67						.4	.9	.9	.9	.6	.7	.2						39	39	
78/ 65					.3	1.2	1.4	1.4	.9	.7	.7							53	53	
84/ 63		.1	.6	1.2	1.1	1.2	1.8	.9	.9	.2								72	72	1
87/ 61		.3	.6	.9	2.2	1.9	1.7	.9	.3	.1								87	87	19
87/ 59		.8	.8	2.3	3.0	2.7	1.1	.7	.3									101	101	49
89/ 57		1.3	1.4	2.1	3.3	1.9	1.8	.7										105	105	59
89/ 55		.9	1.9	1.7	2.2	2.2	.7	.1										87	87	37
90/ 53		.4	1.3	1.7	1.9	1.6	.7											65	64	112
92/ 51		.9	1.3	2.7	1.9	.4	.3	.1										69	69	170
97/ 49		.7	3.7	1.6	1.1	.4												67	67	108
99/ 47		.7	1.2	.9	.6	.2												32	32	101
96/ 45		1.7	.4	.7	.7													23	23	113
94/ 43		.8	.2	.8	.1													17	17	71
92/ 41																				39
97/ 39																				17
97/ 37																				9
76/ 35																				1
94/ 33																				32
72/ 31																				38
97/ 29																				19
98/ 27																				15
76/ 25																				9
94/ 23																				1
97/ 21																				5
TOTAL		7.9	13.7	16.9	19.4	15.0	11.1	7.3	4.1	2.7	1.3	.4	.7					900	900	900
Element (X)	2g'	2g		I	°s	No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	3324465	52559		58.4	16.844	900		≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb	3125347	52623		58.5	7.344	900				17.9	2.9	.4		90						
Wet Bulb	2371840	45262		57.3	5.333	900								97						
Dew Point	1692463	38462		42.7	7.365	900			8.7					90						

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7755 MALMSTROM AFB MT

74-93

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL
 HOURS (L. S. Y.)

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
74/ 93												.1	.0			.1	17	17		
82/ 91												.1	.1	.1	.1	.1	16	16		
90/ 89											.1	.1	.1	.1	.1	.1	31	31		
98/ 97											.1	.1	.1	.1	.1	.1	52	52		
96/ 85											.1	.1	.1	.1	.1	.1	71	71		
94/ 83											.1	.1	.1	.1	.1	.1	21	21		
92/ 81										.1	.1	.1	.1	.1	.1	.1	122	122		
90/ 79										.1	.1	.1	.1	.1	.1	.1	183	183		
88/ 77										.1	.1	.1	.1	.1	.1	.1	204	204		
86/ 75								.1	.1	.1	.1	.1	.1	.1	.1	.1	252	252		
84/ 73								.1	.1	.1	.1	.1	.1	.1	.1	.1	253	253		
82/ 71								.1	.1	.1	.1	.1	.1	.1	.1	.1	293	293		
80/ 69					.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	338	338	9	
88/ 67				.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	367	367	20	
86/ 65			.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	380	380	67	
84/ 63		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	441	441	159	1
82/ 61		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	494	494	324	6
80/ 59		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	527	527	419	37
88/ 57	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	572	572	577	104
86/ 55	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	519	519	714	195
84/ 53	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	487	487	840	258
82/ 51	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	395	395	888	396
80/ 49	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	361	361	766	527
88/ 47	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	300	300	749	635
86/ 45	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	218	218	657	699
84/ 43	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	135	135	485	705
82/ 41	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	59	59	294	770
80/ 39	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	20	20	158	664
78/ 37	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	7	7	80	554
76/ 35	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1	1	27	533
74/ 33	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1	1	6	323
72/ 31	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1	1	2	386
70/ 29	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1				153
68/ 27	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1				105
Element (X)	Σ X'	Σ X	X	σ _a	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

707765 HALMSTROM AFB MT
STATION STATION NAME

74-87
YEARS

JUN
MONTH

PAGE 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														
24/ 25																																			
24/ 23																																			
24/ 21																																			
24/ 19																																			
TOTAL	2.7	4.0	12.1	13.2	13.1	9.0	7.7	8.0	7.7	5.9	4.1	2.9	1.9	1.1	0.3	0.3	7198	7198		7198															

Element (X)	Z ₁	Z ₂	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	22844948	360763	52.9	19.781	7198							
Dry Bulb	28307374	444688	61.8	10.770	7198			228.2	128.3	48.8	1.0	729
Wet Bulb	19320676	379192	51.4	6.257	7198			0.3	3.7			729
Dew Point	13278885	304697	42.3	7.274	7198			70.3				729

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION NAME PALMSTROM AFB MT

74-87

YEARS

MONTH JUL

PAGE 1 0500-0500
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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
73																					7	7		
71								.1	.1	.1	.4										7	7		
69								.1	.1	.1	.1										19	19		
67		.1				.7		.1	.1	.1	.1										19	19		
65		.1	.7	.3	.5	.7	1.3	.7	.7												35	35		
63		.3	.7	1.1	1.6	.7	.4	.7													43	43	1	2
61		1.7	1.1	2.5	2.5	1.9	1.7	.9													98	98	9	5
59		1.4	1.1	2.5	4.0	2.3	.2	.7													113	113	26	5
57		1.6	2.5	4.6	3.0	2.5	.7	.1													122	132	27	22
55		1.6	3.4	4.6	3.0	1.8	.4														139	139	27	29
53	.1	2.4	1.9	4.1	4.0	1.1	.5														131	131	174	47
51	.3	1.2	1.8	3.9	.6	1.2															34	44	171	67
49		.1	1.7	1.1	.7	.7															47	47	121	95
47		.1	2.3	1.7	.3	.1															35	39	122	25
45		.7	.5	.3	.4	.1															15	15	111	112
43		.1	.3	.1	.1	.1															7	7	42	127
41		.7																			7	7	35	127
39																							10	26
37																							9	57
35																							2	41
33																							2	31
31																								
29																								
27																								
25																								
TOTAL	.41	.41	1.8	2.7	6.1	2.6	5.5	4.7	1.0	.1											649	630	630	230

Element (X)	Z ₁	Z ₂	T	Q	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4135722	60576	65.1	14.304	930	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	3031618	52244	56.8	5.582	930			4.8	.3			93
Wet Bulb	2325910	46890	57.4	4.838	930							93
Dew Point	1890562	41482	44.6	6.585	930		4.5					93

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-27 JUL
STATION STATION NAME YEARS 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	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
84/ 83																		1	1							
82/ 79																		3	3							
80/ 77									.2	.4							7	7								
78/ 75							.1	.1	.5	.9							19	19								
74/ 73							.1	1.1	1.3	.2							28	28								
72/ 71				.1	.2	.7	.9	1.4	.9	.2	.1						37	37								
70/ 69			.2	.1	1.3	2.3	1.7	.0	.1								62	62								
68/ 67		.1	.2	.4	1.6	1.8	2.2	1.0	.3	.1							72	72								
66/ 65		.1	.6	.2	1.2	2.4	2.2	.2	.4	.1							88	88	3	1						
64/ 63		.3	.9	1.2	2.2	3.7	1.7	1.1	.1								101	101	11	4						
62/ 61		.3	1.8	2.2	3.2	2.9	1.4	.7	.1	.1							120	120	17	5						
60/ 59		1.2	1.1	3.6	3.7	2.4	1.1	.2									122	123	77	13						
58/ 57		1.1	2.3	3.1	1.2	1.2	.8	.2	.1								98	98	175	27						
56/ 55		.6	1.9	2.8	1.7	.9	.3										77	77	146	49						
54/ 53		.4	.5	1.5	1.1	.7	.7										78	78	149	42						
52/ 51	.2	.4	1.5	.8	.6	.2											35	35	133	97						
50/ 49		.1	1.1	.2	.1	.2											15	15	85	144						
48/ 47			.2	.2													5	5	73	118						
46/ 45																				34	128					
44/ 43																				1	52					
42/ 41																				3	7					
40/ 40																				2	43					
38/ 37																					37					
36/ 35																					18					
34/ 33																					13					
32/ 31																					13					
30/ 29																					5					
28/ 27																					1					
26/ 21																					2					
22/ 19																					1					
TOTAL	.1	4.6	12.2	17.1	19.8	16.9	13.2	8.1	4.7	2.3	1.0							929	977	979	929					

Element (X)	Z _g ¹	Z _g	I	° _g	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3440590	54776	59.0	15.278	929	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3629773	57807	62.2	6.277	930			22.9	5.8	.2		93
Wet Bulb	2698419	49889	53.7	8.559	929			.2				93
Dew Point	2066857	43429	46.7	6.283	929		2.2					93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

1
2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707759 MALMSTROM AFB MT 74-87 YEARS JUL
STATION STATION NAME MONTH
PAGE 1 0-11 1974
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
06/ 67																		1	1		
07/ 61																		3	3		
07/ 60																		7	7		
08/ 67																		14	14		
08/ 65																		16	16		
04/ 63																		32	32		
07/ 61																		46	46		
07/ 79																		67	67		
07/ 77																		83	83		
06/ 75																		89	89		
07/ 73																		89	89		
07/ 71																		101	101		
07/ 69																		95	95	7	
08/ 67																		79	79	9	
08/ 65																		71	71	19	
04/ 63																		54	54	21	3
07/ 61																		47	47	136	13
07/ 59																		23	23	145	22
08/ 57																		8	8	178	33
08/ 55																		7	7	132	48
04/ 53																		5	5	17	65
02/ 51																		3	3	16	95
07/ 49																		4	4	12	111
06/ 47																		1	1	15	127
02/ 45																				6	116
04/ 43																				4	14
07/ 41																					55
04/ 39																					
08/ 37																					42
06/ 35																					33
06/ 33																					19
02/ 31																					9
07/ 29																					4
08/ 27																					3
Element (X)	Z ₁	Z ₂	X	σ ₂	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.						≤ 60 F	60-65 F	65-70 F	70-75 F	75-80 F	≥ 80 F										
Dry Bulb																					
Wet Bulb																					
Dew Point																					

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC JUL 64

2

GLOBAL CLIMATOLOGY BRANCH
 AFCE/TAC
 AIR WEATHER SERVICE/TAC

PSYCHROMETRIC SUMMARY

707755 Malmstrom AFB MT 74-57 JUNE 67
 STATION STATION NAME YEARS MONTH

PAGE 1
 HOURS LT. S. T. 1

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																			
67-70																																							
TOTAL		8	2.9	3.8	4	5.1	7.1	21.5	71.4	311.4	9.4	6.1	7.4	7.4																									

Element (X)	ΣX^2	ΣX	\bar{X}	S_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	1054320	40384	43.4	14.698	93	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	4881142	6726	72.1	7.378	93			7.5	44.0	19.7		91
Wet Bulb	3138230	53860	57.9	8.493	93			1.6				93
Dew Point	2113847	43273	47.2	6.892	93	1.0		2				93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL BUREAU OF SURVEY
 NATIONAL METEOROLOGICAL SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: CALMSTROM AFB MT YEAR: 74-87 MONTH: JUL
 PAGE: 1 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
67																		2	2
68																.7	.4	2	0
69															.1	.5	1.3	2	18
70														.2	.6	.6	.3	17	17
71														.5	1.5	.9		37	37
72														.8	1.4	1.2	.1	45	45
73														1.4	1.8	2.2	1.7	66	66
74														1.9	.8	.7	.2	78	73
75														.8	.3			81	81
76														.4	.1	.1		100	100
77					.1	.2								1.2	.6	.1		84	84
78				.1	.2	.5	1.0	1.4	2.3	1.4				1.4	.4			87	87
79				.1	.2	.1	.5	1.0	1.8	2.3	1.7			.4				78	78
80				.2	.7	.3	1.8	1.7	2.0	.5	.5	.1						66	66
81				.1	.1	.4	1.1	1.4	1.4									77	77
82				.3	.4	.5	.2	.7	.6	.4	.2							34	34
83				.5	.2	.1	.2	.3	.2	.1								22	22
84				.2	.7	.2	.3	.3	.1									11	11
85				.3	.4	.1	.1											10	10
86		.1	.4															4	4
87		.4	.1	.2														5	5
88		.7	.4															3	3
89		.2	.4															2	2
90																		5	5
91																		7	7
92																			
93																			11
94																			16
95																			67
96																			67
97																			84
98																			55
99																			40
100																			37
101																			29
102																			17

Element (X)	Σ X ²	Σ X	X	X _a	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707766 MALMSTROM AFB MT 74-87 JUL 1944
STATION STATION NAME YEARS MONTH

PAGE 1 1000-1400
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																
7 / 20																																					
7 / 27																																					
7 / 26																																					
7 / 23																																					
TOTAL	.4	1.1	2.2	3.2	2.7	6.2	8.0	10.6	13.0	15.4	11.4	7.2	6.1	6.7	7.3	1.1	920	93.1	93.4	93.1																	

Element (K)	Z ₁	Z ₂	X	°s	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	1331	31	32535	35.0	14,435	937						
Dry Bulb	5729	99	72549	78.7	8,135	930		85.1	71.9	41.2	2.9	93
Wet Bulb	3332	611	55515	59.7	4,489	930		5.1	.1			93
Dew Point	2633	085	42905	46.1	7,602	930	3.6	.7				93

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 JULY 1950-1950
STATION STATION NAME YEARS MONTH

PAGE 1 1500-17.0
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																	
77/ 31																																						25
77/ 20																																						9
76/ 27																																						7
76/ 25																																						4
77/ 21																																						1
77/ 19																																						2
76/ 17																																						1
TOTAL		07	05	30	23	7	30	56	57	82	73	14	12	41	11	5	9	6	5	6	7	5	2												937		937	

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

Element (X)	Σx^2	Σx	\bar{x}	s_x^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Num.	1192249	30201	32.5	15.88	937							
Dry Bulb	5958347	73097	79.6	8.789	937			85.5	73.9	89.3	5.7	97
Wet Bulb	3344614	55616	59.8	4.981	937			4.9	1.2			93
Dew Point	1044524	41870	45.0	8.001	937		4.9	1.2				93

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GENERAL CLIMATOLOGY BRANCH
 AFAC/TAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

197756 MALMSTROM AFB MT 74-87 JIM
 STATION STATION NAME YEARS MONTH
 PAGE 1 1870-2100
 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															
67/66																.1	.3	4																		
67/63																.1	.2	5																		
67/61																.1	.1	7																		
67/59											.1	.1	.2	.2	.2	1.1	.3	27	27																	
67/57											.1	.1	.2	1.1	1.1	.4	.1	32	32																	
67/55								.1	.1	.1	.2	.4	.8	1.8	.6	.3		43	43																	
67/53								.1	.1	.1	.3	.4	1.4	1.4	.3	.3		51	51																	
67/51								.1	.1	.1	.5	.3	1.2	2.5	.9	.3		60	67																	
67/50							.1	.1	.1	.3	.4	.9	2.6	1.7	.9	.2	.1	76	76																	
67/47				.1	.1	.1	.2	.1	1.4	1.0	3.3	1.2	.6					92	92																	
67/45				.1	.1	.1	.1	.1	2.2	1.9	1.3	.6	.1	.1				82	82																	
67/43				.1	.1	.1	.1	.1	2.6	1.6	1.7	.1	.2	.1				81	81																	
67/41			.1	.1	.1	.1	.1	.1	3.0	.9	.6	.2						93	93																	
67/39			.1	.1	.1	.1	.1	.1	1.3	1.4	1.4	1.2	1.2	.3	.1	.1		73	73																	
67/37			.1	.1	.1	.1	.1	.1	1.3	.4	1.3	.6						53	53																	
67/35			.1	.1	.1	.1	.1	.1	.6	.4	.8	.1	.1					42	42																	
67/33		.1	.1	.1	.1	.1	.1	.1	.4	.1	.1							17	17																	
67/31		.1	.1	.1	.1	.1	.1	.1	.4	.1	.1							15	15																	
67/29		.1	.1	.1	.1	.1	.1	.1	.3									8	8																	
67/27		.1	.1	.1	.1	.1	.1	.1	.1									8	8																	
67/25			.1	.1	.1	.1	.1	.1	.1									1	1																	
67/23				.1	.1	.1	.1	.1	.1																											
67/21					.1	.1	.1	.1	.1																											
67/19						.1	.1	.1	.1																											
67/17							.1	.1	.1																											
67/15								.1	.1																											
67/13									.1																											
67/11																																				
67/9																																				
67/7																																				
67/5																																				
67/3																																				
67/1																																				
67/0																																				
Σ _g																																				
Σ _x																																				
I																																				
° _x																																				
No. Obs.																																				
Mean No. of Hours with Temperature																																				
<table border="1"> <tr><td>≤ 0 F</td><td>≤ 32 F</td><td>≥ 67 F</td><td>≥ 73 F</td><td>≥ 80 F</td><td>≥ 93 F</td><td>Total</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																					≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																														
Rel. Hum.																																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM 0-26-5 (O.L.A.) REVISI PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAF/TAC AIR 64

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GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE / MAC

PSYCHROMETRIC SUMMARY

757755 HALLSTROM AFB MT 74-97 JUL 1974
 STATION STATION NAME YEARS MONTH

PAGE 1 1500-2000
 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															
74/ 27																						9														
74/ 25																						5														
74/ 23																						1														
74/ 17																						1														
74/ 15																						1														
TOTAL	1	0	2	5	4	8	6	5	6	3	8	10	13	1	9	8	1	7	8	0	5	7	4	6	3	5	2	6	1	1	930	930	930			
																		930				930														

Element (X)	Z _g ¹	Z _g	X	°	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	1737043	36885	39.7	17.178	930							
Dry Bulb	5243397	69393	74.6	8.401	930			77.1	56.0	26.8	.9	93
Wet Bulb	3197173	54357	59.4	4.651	930			4.1	.5			93
Dew Point	2035920	42824	46.0	8.299	930		5.0	1.1				93

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70775 MALMSTROM AFB MT 74-87 JUL
STATION STATION NAME YEARS MONTH
PAGE 1 210-230
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
66/ 35																	1	1	
67/ 31																	6	6	
67/ 26																	18	18	
67/ 27																	24	24	
66/ 28																	18	18	
64/ 23																	40	40	
67/ 21																	55	55	
70/ 19																	24	24	
67/ 17																	118	118	9
66/ 15																	170	170	13
64/ 13																	115	115	23
60/ 11																	84	84	42
67/ 9																	73	73	91
67/ 57																	60	60	136
67/ 55																	62	62	155
64/ 53																	35	35	195
67/ 51																	9	9	106
60/ 49																	6	6	73
60/ 47																	2	2	57
66/ 45																	1	1	71
64/ 43																			12
62/ 41																			5
67/ 39																			2
67/ 37																			35
67/ 35																			34
64/ 33																			22
67/ 31																			19
67/ 29																			11
67/ 27																			4
66/ 25																			1
67/ 19																			1
68/ 17																			1
TOTAL	.2	2.6	7.5	13.4	14.9	15.4	15.1	12.6	9.9	5.9	3.0	1.4	.5	.1			930	930	930
Element (X)	Z _h ¹	Z _h	X	g	No. Obs.	Mean No. of Hours with Temperature					Total								
Rel. Hum.	2828937	49025	52.7	16.226	930	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	93							
Dry Bulb	3977754	60466	65.5	6.518	930			38.3	11.6	1.6		93							
Wet Bulb	2708273	50923	54.6	4.733	930			1.0				93							
Dew Point	3022009	42823	46.3	7.349	930		3.6					93							

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: 302755 M^AL^MSTROM AFB MT YEARS: 74-87 MONTH: JUL
 DATE: ALL
 HOURS (L. S. T.): ALL

FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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																
77/ 90																		.1															7	7			
86/ 97																																		7	7		
86/ 95																																		34	34		
84/ 97																																		46	46		
87/ 91																																		73	73		
87/ 89																																		124	124		
88/ 87																																		163	163		
86/ 85																																		216	216		
84/ 83																																		214	214		
87/ 81																																		281	281		
77/ 79								.1	.1	.2	.5	.3	1.6	.8	.1																		360	360			
76/ 77						.1	.1	.2	.4	.7	1.1	1.2	.7	.4																			371	371			
76/ 75			.1	.1	.1	.1	.4	.7	1.1	1.2	.8	.4	.1																				368	368	5		
74/ 73			.1	.1	.2	.4	1.1	1.5	1.8	.6	.2																						350	350	11		
77/ 71			.1	.1	.2	.5	1.2	1.2	1.4	.5	.4	.1																					477	477	23		
77/ 69		.1	.1	.2	.2	.5	1.3	1.3	1.5	.7	.1																						439	439	39	17	
87/ 67		.1	.1	.4	1.1	1.2	1.2	1.4	.6	.3	.1																						479	479	91	27	
86/ 65		.1	.3	.6	1.1	1.2	1.6	.8	.4	.1																							463	463	233	21	
87/ 63		.1	.5	1.1	1.4	1.3	1.2	.6	.2	.1																							484	484	476	33	
82/ 61		.4	.7	1.4	1.6	1.6	.9	.2	.2																								531	531	748	66	
87/ 59		.5	.7	1.6	1.8	1.3	.4																										501	502	991	137	
88/ 57		.5	1.2	1.8	1.3	.7	.3	.1																									449	449	977	214	
88/ 55	.1	.4	1.1	1.7	1.1	.6	.2																										377	377	923	340	
84/ 53	.1	.5	.7	1.3	1.1	.3	.2																										513	513	512	449	
82/ 51	.1	.3	.5	.8	.7	.2																											164	164	777	61	
87/ 49		.2	.5	.2	.2	.1																											87	87	494	342	
88/ 47		.1	.5	.2	.1	.2																											63	63	369	787	
87/ 45		.2	.1	.1	.1	.2																											22	22	238	892	
84/ 43		.2	.1	.2	.7	.2																											9	9	109	793	
87/ 41		.2				.1																											5	5	61	266	
80/ 39																																				14	499
88/ 37																																				8	354
76/ 35																																				2	273
84/ 33																																				3	165
Element (X)	Σ X'		Σ X		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature						Total																				
Rel. Hum.											≤ 6 F	≤ 32 F	≤ 67 F	≤ 72 F	≤ 80 F	≤ 93 F	Total																				
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

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FEDERAL CLIMATOLOGY BRANCH
AFS/TAC
WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7755 MALMSTROM AFB MT 74-87 JUL
STATION STATION NAME YEARS MONTH
PAGE 44
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															
74																						153														
73																						46														
72																						30														
71																						15														
70																						7														
69																						6														
68																						9														
67																						4														
66																						1														
65																						1														
TOTAL	.1	7.2	7.11	7.12	7.01	6.6	6.6	6.2	6.1	5.3	5.0	4.9	3.5	2.4	2.1	1.6	.0	7470	7447	7439	7439															

Element (X)	ΣX	ΣX^2	\bar{X}	σ_n	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 67 F	≥ 72 F	≥ 80 F	≥ 93 F		
Rel. Hum.	20239246	360387	49.4	19.231	7439						
Dry Bulb	35797639	509731	68.5	10.944	7439	397.4	264.9	133.8	8.9		744
Wet Bulb	23434324	415344	55.8	5.731	7439	16.9	1.6				744
Dew Point	16048551	341207	45.9	7.318	7439	30.4	3.3				744

SAFETYAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

17755 MALMSTROM AFB MT 74-P7
STATION STATION NAME YEARS MONTHS
PAGE 1 000000
HOURS U.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														
72/ 72									.1	.1								2	2																
72/ 77									.1	.2								3	3																
71/ 75									.1									3	3																
74/ 73									.1	.1								2	2																
71/ 71								.7	.1	1.7	.1							15	15																
77/ 69				.1	.2	.4	1.3	.2	.9	.4	.1							40	40																
77/ 67		.1		.1	.5	1.4	1.7	2.7	.5	.6								67	67																
76/ 65			.4	.2	.3	1.5	1.9	1.4	1.2	.1								66	66																
74/ 63			.1	.5	1.4	2.2	1.4	1.7	.5									74	74	6	1														
77/ 61				1.4	1.6	2.8	3.2	.5										58	58	1	2														
77/ 59			1.7	2.7	1.2	3.5	3.1	.2										100	100	25	7														
74/ 57		.2	2.0	2.5	2.7	3.9	1.2	.1										115	115	47	7														
76/ 55		.8	2.0	3.3	1.7	2.8	.4	.1										79	79	45	11														
74/ 52		.5	2.0	1.4	1.6	.4	.5											63	62	14	25														
72/ 51		.8	2.4	2.7	1.7	.6	.1											44	44	169	61														
70/ 49		1.7	1.7	.9	.4	.8												44	44	164	29														
77/ 47		.7	1.2	.8	.1	.3												74	74	172	96														
74/ 45		.8	.9	.4	.5													24	24	66	101														
74/ 43		.2	.4															6	6	43	101														
72/ 41		.1	.1															2	2	31	52														
74/ 39		.1																1	1	17	104														
79/ 37																				7	97														
74/ 75																					0														
74/ 33																					24														
77/ 31																					17														
70/ 29																					15														
79/ 27																					19														
TOTAL		4.7	16.7	15.6	13.4	27.1	13.7	9.7	3.9	1.6	.4							970	970	970	91														

Element (X)	Z ₁	Z ₂	X	C ₁	No. Obs.	Mean No. of Hours with Temperature					Total	
						= 60 F	= 62 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	3359573	51931	58.7	15.826	937							
Dry Bulb	3272642	54412	58.9	6.719	937			13.5	1.0			91
Wet Bulb	2408182	47114	50.7	4.797	937							91
Dew Point	1770198	40138	43.2	6.345	937		4.6					91

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-63 YEARS A/C MONTH

PAGE 1 2600-0900 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.	Wet Bulb/Dew Point
72/ 81									.1								1	1
73/ 79								.1	.1								2	2
74/ 77								.2	.1	.1	.1						4	4
75/ 75						.1		.2	.2	.2	.1						4	4
76/ 73					.1	.3		.2	.3	.5							10	10
77/ 71			.1		.3	.6		.3	.3								13	13
78/ 69		.1	.1	.1	.3	1.0	1.1	.8	.1								22	22
79/ 67		.1	.1	.1	1.5	.8	1.6	.6	.2								45	45
80/ 65		.1	.1	1.1	3.1	1.5	1.7	.4	.2								76	76
81/ 63		.5	.6	2.5	2.2	2.4	1.1	.5									91	91
82/ 61	.2	.1	1.4	2.4	2.3	2.5	.6										88	88
83/ 59	.1	.6	2.2	4.3	2.7	1.2											102	102
84/ 57	.4	1.7	3.2	2.3	1.9	.9	.1										97	97
85/ 55	.8	3.2	3.2	1.7	1.2	.8											101	101
86/ 53	.7	2.5	1.1	2.5	.3	.1											79	79
87/ 51	.9	2.3	1.1	1.1	.9	.1											55	55
88/ 49	.6	1.5	1.3	.4	.2												57	57
89/ 47	.8	1.1	.8	.1	.1												26	26
90/ 45	1.2	.3	.2	.1													15	15
91/ 43	.2	.3	.2														7	7
92/ 41	.2	.2	.1														5	5
93/ 39																		
94/ 37	.1																1	1
95/ 35																		
96/ 33																		
97/ 31																		
98/ 29																		
99/ 27																		
TOTAL		7.2	16.7	15.6	18.5	17.0	17.0	7.1	3.4	1.5	.6	.2	.1				930	930

Element (X)	Z _g '	Z _x	X	σ _a	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3570183	55821	62.0	15.377	930	≤ 60 F	≤ 62 F	≤ 64 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	3293561	54957	59.1	7.333	930			13.0	3.5	.1		9.1
Wet Bulb	2458822	47612	51.2	4.787	930							9.3
Dew Point	1856845	41189	48.3	5.925	930			3.2				9.3

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

FEDERAL BUREAU OF SURVEY
 NATIONAL METEOROLOGICAL SERVICE
 AIR FORCE WEATHER SERVICE

PSYCHROMETRIC SUMMARY

STATION: MALMSTROM AFB MT YEARS: 74-87 DATE: 05-01-88
 MONTH: AUG HOURS (L. S. T.):

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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	1.1	4.4	6.6	3.2	9.0	11.6	14.0	15.2	12.5	7.6	7.4	7.2	1.5	.4	.7	930	970																

Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Hum.	2082457	41530	48.7	15.662	930							
Dry Bulb	4552487	64576	69.4	8.890	930			59.5	34.7	11.6	.2	93
Wet Bulb	2931799	52045	56.7	4.551	930			1.1				93
Dew Point	1944707	42171	45.3	5.911	930	2.6						97

FORM 0-26.5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

2

FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/AFAC

PSYCHROMETRIC SUMMARY

STATION Malmstrom AFB MT

74-87

YEARS

MONTH

PAGE 1070-140
 HOURS (L. S. Y.)

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														
77/103																		.1	1	1															
77/101																		.1	1	1															
77/99																		.1	2	2															
77/97																		.1	4	4															
77/95																		.1	8	7															
77/93																		.1	23	23															
77/91																		.1	33	28															
77/89																		.1	48	40															
77/87																		.1	75	74															
77/85																		.1	50	50															
77/83																		.1	79	79															
77/81																		.1	74	74															
77/79																		.1	69	69															
77/77																		.1	76	76															
77/75																		.1	73	73															
77/73																		.1	84	84															
77/71																		.1	74	68	3														
77/69																		.1	74	64	5														
77/67																		.1	71	57	12														
77/65																		.1	67	54	5														
77/63																		.1	34	34	67														
77/61																		.1	19	19	177	4													
77/59																		.1	13	13	276	11													
77/57																		.1	16	16	143	4													
77/55																		.1	27	27	105	27													
77/53																		.1	7	7	64	73													
77/51																		.1	9	9	43	64													
77/49																		.1	4	4	41	117													
77/47																		.1	3	1	29	12													
77/45																		.1																	
77/43																		.1																	
77/41																		.1																	
77/39																		.1																	
77/37																		.1																	
77/35																		.1																	

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AND WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: 700755 MALMSTROM AFB MT STATION NAME: YEARS: 74-87 MONTH: AUG
 HOURS (L.S.T.): 15.0-17.0

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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																	
74 / 36																																				46		
74 / 33																																				41		
77 / 31																																				47		
77 / 29																																				48		
77 / 27																																				47		
76 / 25																																				45		
74 / 23																																				44		
TOTAL		7	2	3	2	6	4	7	2	3	6	2	5	6	4	6	9	5	14	7	9	9	4	12	2	7	5	2	4	6					937	937	937	

Element (X)	ΣT	ΣR	\bar{T}	\bar{R}	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1146520	29554	31.8	5.693	937	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	5716095	72287	77.7	7.739	937			70.4	67.4	44.4	3.8	93
Wet Bulb	3187061	53941	59.7	4.953	937			2.6				93
Dew Point	1728980	39631	42.6	6.578	937		7.					93

FORM NO. 34
 USAFETAC 0-26-5 (O.L.A.)
 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

22755 MALMSTROM AFB MT
STATION STATION NAME

74-87
YEARS

ALL MONTH

PAGE 1 18 2-800
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																			
79																																						
97																																						
95																																						
93																																						
91																																						
89																																						
87																																						
85																																						
83																																						
81																																						
79																																						
77																																						
75																																						
73																																						
71																																						
69																																						
67																																						
65																																						
63																																						
61																																						
59																																						
57																																						
55																																						
53																																						
51																																						
49																																						
47																																						
45																																						
43																																						
41																																						
39																																						
37																																						
35																																						
33																																						
Element (X)	Z _X ¹	Z _X	X	° _X	No. Obs.	Mean No. of Hours with Temperature																																
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																										
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

FORM AIR 34 0-26-5 (O.L.A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

717755 MALMSTROM AFB MT 74-97 AIR MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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.	Wet Bulb Dew Point														
77/33																																	
77/30																																	
77/27																																	
77/25																																	
77/23																																	
TOTAL	1.3	2.7	6.1	6.9	5.9	7.6	8.1	10.4	12.6	17.9	9.1	6.7	5.7	3.4	1.2	1.4	930	930															

Element (X)	Z ₁ '	Z ₂	X	e _a	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	1673021	35927	39.6	17.519	930	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	4915297	67198	72.1	9.691	930			56.2	46.6	22.7	9	53
Wet Bulb	2931474	52046	56.7	4.899	930			8				93
Dew Point	1752336	39866	42.9	6.836	930		6.9					93

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAAC

PSYCHROMETRIC SUMMARY

STATION 727755 MALMSTROM AFB MT STATION NAME 74-37 YEARS MONTH AUG
PAGE 1 21 10-23 19 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																				
77/41												.2																					5	5						
77/79												.1											.3										9	9						
77/77											.1												.4										8	12						
77/75											.3												.6										7	11						
77/73											.4												.8										4	11						
77/71											.2												1.3										6	6						
77/70											.4												1.9										8	8						
77/67		.1	.1	.2	.1	1.5	1.4	2.4	2.7	.9													2.7										3	8						
77/65		.1		.1	.1	2.5	2.5	1.9	1.9														1.9											9	9	5				
77/63			.2	.3	1.5	2.2	1.9	2.0	.5	.1													.5											8	13	4				
77/61			.4	.9	1.6	1.7	2.7	.9	.2														2.7											7	7	1				
77/59		.1	1.7	2.5	2.4	2.4	2.7	.9	.1														2.7											10	10	3				
77/57		.5	2.3	2.6	1.5	1.3	.6	.4															.4											8	8	7				
77/55		.1	1.1	1.9	1.3	.5	.6																.6											5	5	14				
77/53		.7	1.4	1.7	.4	.2	.5																.5											3	3	3				
77/51		.6	.3	1.5	.3	.7	.1																.7											3	3	59				
77/49		.6	1.1	.3	.7	.5																	.5											2	2	84				
77/47		.6	.9	.4	.1																		.4											1	1	107				
77/45		.3	.1	.2		.1																	.1											7	7	126				
77/43																																			2	2	97			
77/41																																			1	1	125			
77/39																																				4	4	97		
77/37																																				1	1	72		
77/35																																					6	6	35	
77/33																																					3	3	35	
77/31																																					1	1	11	
77/29																																						1	1	11
77/27																																						1	1	11
77/25																																						1	1	11
TOTAL		7.4	8.9	11.9	11.4	14.7	15.7	12.4	11.1	1.1	6.7	2.8	2.5	.5	.1																			93	93	93				

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2694162	47446	51.7	16.245	93	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	376847	58792	63.2	7.467	93			32.5	10.3	1.1		93
Wet Bulb	2522686	48916	52.6	8.618	93							93
Dew Point	1786107	47289	43.3	6.521	93		4.9					93

GENERAL CLIMATOLOGY BRANCH
 USAFETAC
 AND WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70755 MALMSTROM AFB MT

74-67

AUG
 MONTH

PAGE 1

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																	
9/103																																	3	3			
2/101																																		3	3		
3/09																																		5	4		
4/07																																		4	4		
6/05																																		15	15		
8/03																																		34	34		
7/01																																		69	69		
8/00																																		105	105		
8/07																																		153	157		
6/05																																		202	202		
4/03																																		193	193		
7/01																																		233	233		
7/09																																		270	270		
7/07																																		205	205		
7/07																																		310	310		
7/07																																		366	366		
7/07																																		310	360	6	
6/07																																		422	422	12	
6/07																																		426	426	51	
6/07																																		433	433	103	
6/07																																		479	479	202	9
6/07																																		488	488	488	
6/07																																		544	544	812	47
6/07																																		528	528	863	54
6/07																																		469	469	984	175
6/07																																		337	337	991	243
6/07																																		268	268	804	465
6/07																																		233	233	736	784
6/07																																		131	131	528	847
6/07																																		70	70	325	913
6/07																																		27	27	197	402
6/07																																		19	19	113	833
6/07																																		9	9	57	732
6/07																																		1	1	24	557
Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	No. Obs.	Mean No. of Hours with Temperature						Total																									
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																										
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT 74-87 AIRC MONTH ALL

PAGE 1 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														
77-85																						411													
74-77																						737													
77-71																						194													
77-72																						111													
77-77																						73													
71-75																						17													
77-73																						1													
TOTAL	3.5	2.7	17.0	17.0	17.0	11.4	10.3	8.5	7.6	7.1	5.2	4.4	3.7	3.4	1.8	1.0	1.0	744	744	744	744														

Element (X)	Z _X ¹	Z _X	Z	° _X	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	19793035	355463	47.8	19.435	744							
Dry Bulb	3392219	494054	66.5	11.448	744			346.7	225.9	115.5	6.5	744
Wet Bulb	21868513	401151	53.9	5.677	744			7.6				744
Dew Point	14417335	324707	43.5	6.425	744		39.1					744

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 HALLSTROM AFB MT
STATION STATION NAME

74-87
YEARS

SEP
MONTH

PAGE 1 0000-0300
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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																
70/ 77																																	1	1		
70/ 75																																	1	1		
70/ 73																																	1	1		
70/ 71																																	8	8		
70/ 69																																	6	6		
69/ 67																																	12	12		
69/ 65																																	18	18		
69/ 63																																	27	27		
69/ 61																																	41	41		
69/ 59																																	53	53	4	
69/ 57																																	57	57	4	
69/ 55																																	74	74	4	
69/ 53																																	69	69	7	
69/ 51																																	76	76	9	
69/ 49																																	69	69	11	
68/ 47																																	78	78	11	
68/ 45																																	78	78	36	
68/ 43																																	66	66	52	
68/ 41																																	46	46	79	
68/ 39																																	50	50	97	
68/ 37																																	34	34	81	
68/ 35																																	24	24	124	
68/ 33																																	7	7	110	
68/ 31																																	5	5	133	
68/ 29																																		6	6	87
68/ 27																																				48
68/ 25																																				32
68/ 23																																				7
68/ 21																																				8
68/ 19																																				1
68/ 17																																				4
68/ 15																																				2
TOTAL	1.2	17.3	18.0	17.0	16.1	13.7	9.8	6.2	3.1	1.3	1.1	.1																					900	900	900	
Element (X)	ΣX'	ΣX	I	Σ _n	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.	34251.9	53119	59.00	7.959	900	≥ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																									
Dry Bulb	2365562	95522	57.6	8.528	900			2.9																												
Wet Bulb	1723262	39742	43.4	5.747	900		1.4																													
Dew Point	1167978	31890	35.9	6.502	900		31.8																													

PSYCHROMETRIC SUMMARY

700755 MALMSTROM AFB MT 74-87 120
 STATION STATION NAME YEARS MONTH
 PAGE 0300-0000
 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															
74/73																		1	1																	
72/71																		1	1																	
74/69									.2									6	6																	
74/67							.1		.1									5	5																	
72/65							.2		.1									9	9																	
74/63					.1		.2		.6					.4		.1		21	21																	
72/61					.2		.3		1.1					.8				20	20																	
70/59		.4			.3		1.8		1.2					.1				41	41																	
75/57		.7	.1		.4		1.7		.9					.2				63	63																	
58/55		.4	.2	.8	1.7		2.6		.6					.2				58	58	16	7															
74/53		.1	.1	.9	2.7		1.1		.3									47	47	16	5															
72/51		.3	.9	1.7	2.1		2.1		.4									63	63	76	2															
77/49		.7	1.3	2.2	2.1		1.1		.2									65	65	66	6															
86/47		2.3	2.7	2.1	2.4		.3		.1									34	34	76	1															
66/45		2.1	1.9	4.1	2.4		.2											67	67	121	20															
44/43		1.6	2.8	2.6	1.2		.1											74	74	122	24															
67/41		1.7	2.5	2.3	.4		.1											62	62	123	6															
46/39		1.9	3.9	1.1	.4													44	44	93	8															
74/37	.3	1.6	2.3	.3	.1													47	47	78	9															
74/35	.3	2.4	.6	.2														52	37	94	11															
74/33	.6	1.9	.4															48	34	64	7															
72/31	.3	.8	.3															17	17	28	144															
77/29	.1	.1																2	2	16	63															
67/27																				2	2	95														
76/25																						20														
74/23																						17														
77/21																						17														
69/19																						6														
74/17																						5														
TOTAL	1.7	18.4	19.4	18.9	18.7	17.6	5.9	4.1	1.9	.4	.1	.3						900	611	900	910															

Element (X)	ΣX^2	ΣX	ΣX	ΣX^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3884989	57767	63.4	17.217	900	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb	2141635	43247	48.1	8.456	900		1.9	1.3	.1			97
Wet Bulb	1616808	37777	42.7	5.925	900		4.6					92
Dew Point	1145392	31598	35.1	6.335	900		34.7					92

USAFETAC FORM 0-26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH
 WAFSCAT
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 WALSHTON AFB MT 74-87 157
 STATION STATION NAME YEARS 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	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
77/77																		1																	
76/75																		1																	
74/73																		7																	
72/71																		4																	
70/69							.1	.4	.7	.1								12																	
68/67						.3	.1	.2	.4	.2								12																	
66/65						.7	.7	.7										9																	
64/63					.7	.6	1.2	.4	.3									73																	
62/61					1.1	.2	.6	.4										26																	
60/59	.2	.3	.2	.3	1.1	2.0	.2	.1										63																	
58/57	.3	.1	.7	.6	1.6	1.6	.7											50																	
56/55	.1	.7	.9	2.1	2.0	.2	.1											54		22	7														
54/53		.1	.7	1.0	1.7													56		24	4														
52/51		.6	.7	2.3	3.1	1.3		.1										73		53	4														
50/49		.2	2.2	2.4	1.9	.6	.1											65		66	1														
48/47		2.1	1.7	1.8	1.7	.6	.7											73		92	14														
46/45		1.9	2.1	4.2	2.2	.1												93		123	37														
44/43		2.1	3.2	2.2	.8	.1												69		105	43														
42/41		1.7	2.3	1.2	.3													50		102	76														
40/39	.2	1.1	2.6	.2	.2													45		104	93														
38/37		1.7	2.2	.4	.1													32		56	117														
36/35	.7	1.7	1.1															31		59	112														
34/33	.8	1.9	.6															29		45	97														
32/31	.1	.7	.3	.1														11		29	117														
30/29	.2	.1																3		13	78														
28/27																				4	88														
26/25	.1																	1		1	21														
24/23																					3														
22/21																					5														
20/19																					6														
18/17																					1														
TOTAL	2.1	16.1	19.3	17.7	16.8	11.2	8.3	4.1	2.7	1.1	.2	.2	.3				900	900	900	900															

Element (X)	Z _h	Z _w	X	P _w	No. Obs.	Mean No. of Hours with Temperature					Total	
						= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	3766653	55281	62.2	17.792	900							
Dry Bulb	2286488	48604	49.6	9.189	900		1.5	3.7	.9			900
Wet Bulb	1698468	38706	43.7	6.136	900		4.4					900
Dew Point	1193699	32313	35.9	6.109	900		28.2					900

FORM NO. 11 0-26-5 (O.L.A.) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/WAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-87 SEP 0310-0510
 STATION MONTH YEARS PERIOD 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		
74/ 73																																			1	3		
73/ 71																				.1														1	2			
72/ 69																		.2																6	6			
71/ 67												.1		.2			.1																	5	5			
70/ 65											.1	.2		.3			.2				.1													9	9			
69/ 63							.1	.2		.5	.1	.4		.2																				21	21			
68/ 61					.1	.7	.2	.5	.3	.5	.3	.4		.6																				29	29			
67/ 59		.4				.7	1.4	1.2	1.2	1.1	.9		.9																					41	41			
66/ 57		.7	.1	.4	1.2	.9	1.2	1.0	.8																									57	57	4		
65/ 55		.4	.2	.8	1.7	2.6	.6	.7																										58	58	11		
64/ 53		.1	.1	.9	2.7	3.1	.8	.7																										47	47	15		
62/ 51		.3	.3	1.7	2.1	2.1	.4																											63	63	6		
61/ 49		.4	1.3	2.2	2.1	2.1	.2																											65	65	12		
60/ 47		.3	2.0	2.1	2.4	.3	.1																											84	84	33		
59/ 45		.5	1.9	2.1	2.4	.3																												87	87	29		
58/ 43		1.6	2.3	2.6	1.2	.1																												74	74	14		
57/ 41		1.7	2.3	2.3	.8	.7																												62	62	20		
56/ 39		1.8	3.3	1.1	.9																													64	64	20		
55/ 37	.4	1.6	2.4	.4	.1																													43	43	63		
54/ 35	.3	2.4	.6	.2																														22	22	24		
54/ 33	.6	1.7	.2																															28	28	26		
53/ 31	.3	.9	.1																															17	17	144		
52/ 29	.1	.7																																7	7	67		
52/ 27																																			3	3	15	
52/ 25																																				24	24	17
50/ 23																																				3	3	17
50/ 21																																				1	1	17
50/ 19																																				1	1	17
50/ 17																																				1	1	17
TOTAL	1.7	10.4	10.4	18.9	18.1	10.4	5.9	4.1	1.7	.9	.1	.3																					250	250	902			

Element (X)	$\sum X'$	$\sum X$	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2884989	57767	63.4	17.217	909	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2141639	43247	48.1	8.406	909		1.7	1.3	.1			97
Wet Bulb	1616809	37777	42.1	5.025	909		4.6					97
Dew Point	1145307	31598	35.1	6.337	909		34.7					97

USAFETAC FORM AIR 34 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

107755 MALMSTROM AFB MT 74-83 300
STATION STATION NAME YEARS MONTH
PAGE 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	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
77/ 77																																			1	1		
76/ 75																																			1	1		
74/ 73																			.1	.1	.2	.2	.1											7	7			
72/ 71																																			4	4		
70/ 69													.1	.1	.2	.1																		10	10			
67/ 67												.2	.2	.3	.2																			10	10			
66/ 65												.2	.2	.3	.2																			0	0			
64/ 63												.2	.2	.3	.2																			23	23			
62/ 61												.1	.1	.2	.1																			26	26			
61/ 59			.2	.3	.2							.2	.2	.3	.2																			50	50			
60/ 57		.3	.4	.3	.2							.6	1.0	1.4	.7																			50	50			
57/ 55		.1		.2	.2	.2	.2	.2	.2	.1																								54	54	22	7	
56/ 53			.1	.2	.2	.2	.2	.2	.2	.1																								56	56	74	4	
52/ 51		.6	.7	2.3	1.1	1.2																												22	23	51	8	
50/ 49		.1	.2	2.8	1.2	1.2																												65	65	66	7	
48/ 47		.1	.2	1.2	1.3	1.8	.6	.2																										23	22	91	19	
47/ 45		.9	2.1	4.0	2.2	.1																												93	93	178	30	
44/ 43		.2	3.1	2.1	.4	.1																												62	62	155	63	
42/ 41		.7	2.3	1.2	.3																													40	40	102	76	
40/ 39	.2	1.1	2.6	.2	.2																													45	45	124	93	
39/ 37	.1	1.1	2.1	.4	.1																													70	32	56	117	
36/ 35	.2	1.7	1.1																															21	11	59	112	
34/ 33	.1	1.9	.6																															29	29	45	97	
32/ 31	.1	.7	.3	.1																														11	11	22	117	
30/ 29	.2	.1																																3	3	10	73	
28/ 27																																					4	48
26/ 25	.1																																	1	1	1	21	
24/ 23																																					9	
22/ 21																																					6	
20/ 19																																					1	
18/ 17																																					1	
TOTAL	2	116	019	017	716	811	2	8	7	4	1	2	7	1	1																			900	900	900	900	

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	3766653	55981	62.2	17.793	900							900
Wet Bulb	2286434	44628	49.6	9.189	900		1.5	3.7	.9			900
Dew Point	1698468	38706	43.0	6.136	900		4.8					900
	1193699	32313	35.9	6.109	900		28.2					900

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2
1

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAAC

PSYCHROMETRIC SUMMARY

7 2755 MALMSTROM AFB MT

74-87

YEARS

SEP

MONTH

PAGE 1 0900-1100
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		
57/ 51																																			1	1		
57/ 50																																			1	1		
57/ 57																																			2	2		
57/ 55																																			13	13		
57/ 57																																			9	9		
57/ 53																																			15	15		
57/ 70																																			16	16		
77/ 77																																			18	18		
77/ 70																																			29	29		
74/ 77																																			24	24		
77/ 77																																			44	44		
77/ 69																																			53	53		
77/ 67																																			48	48		
67/ 65																																			57	57		
64/ 67																																			42	42		
57/ 61																																			57	57		
57/ 70																																			67	67		
57/ 57																																			61	61		
57/ 55																																			51	51		
54/ 57																																			51	51		
57/ 77																																			36	36		
57/ 49																																			48	48		
47/ 47																																			39	39		
47/ 45																																			18	18		
44/ 43																																			18	18		
42/ 41																																			17	17		
47/ 39																																			9	9		
39/ 37																																			6	6		
77/ 35																																			16	16		
34/ 33																																			8	8		
77/ 31																																			2	2		
70/ 29																																						
27/ 27																																						
26/ 25																																						
Element (X)	Z _X ¹	Z _X	X	F _X	No. Obs.	Mean No. of Hours with Temperature																																
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																										
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

REGAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 HALLSTROM AFB MT 74-87 900-1100
 STATION STATION NAME YEARS MONTH HOURS (L. S. T.)

PAGE 1

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														
7/27																																			
27/21																																			
27/19																																			
TOTAL	6	6.2	8.1	7.2	9.1	11.7	12.2	12.6	7.7	5.9	7.1	2.3	1.8	0.8	0.7		900	900	900																

Element (X)	Z _g '	Z _h	I	%	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2278239	41935	46.5	19.269	900							
Dry Bulb	3428324	54582	60.6	11.462	900			27.8	17.3	4.0		90
Wet Bulb	2184844	43984	48.9	6.266	900			.7				90
Dew Point	1307660	33840	37.6	5.997	900		17.7					90

USAFETAC FORM 0-26-5 (OLA) AIR 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 HALLSTROY AFB MT 74-97 74-97 SEP
STATION STATION NAME YEARS MONTH

PAGE 1 1900-14-2
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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. Wet Bulb	Dry Bulb Dew Point																	
71																																				
70																																				
69																																				
68																																				
67																																				
66																																				
65																																				
64																																				
63																																				
62																																				
61																																				
TOTAL		2	3	3	4	6	5	2	4	5	3	2	7	5	10	4	11	2	11	7	9	7	9	7	6	1	4	9	3	1	2	7	1	4	878	878

USAFETAC FORM 0-26-5 (OL A) 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1500883	32523	36.3	18.761	898	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	4224459	62617	67.3	12.600	900			49.5	34.5	13.5	.8	97
Wet Bulb	2414611	46113	51.4	6.393	898		.3					97
Dew Point	1238536	32930	36.6	6.535	898		25.5					90

FEDERAL BUREAU OF SURVEY
 U.S. AIR FORCE
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727705 MALMSTROM AFB MT
 STATION STATION NAME

74-67

YEARS

SEP
 MONTH

PAGE 1 1970-1970
 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		
99																																			2	7		
97																																			1	1		
95																																			1	1		
93																																			5	5		
91																																			13	13		
89																																			8	25	25	
87																																			16	16		
85																																			20	20		
83																																			19	19		
81																																			30	30		
79																																			66	66		
77																																			72	72		
75																																			59	59		
73																																			53	53		
71																																			48	48		
69																																			55	55		
67																																			49	49		
65																																			50	50	9	
63																																			46	46	3	
61																																			42	42	74	1
59																																			39	39	61	4
57																																			35	35	40	7
55																																			27	27	147	1
53																																			22	22	147	3
51																																			13	13	101	13
49																																			15	15	78	15
47																																			18	18	59	15
45																																			14	14	71	25
43																																			12	12	37	51
41																																			6	6	26	59
39																																			11	11	25	97
37																																			6	6	11	97
35																																			6	6	17	99
33																																			3	3	13	121
Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature																																
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																										
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

FORM 0-26-5 (OL A) REVISED PERVIOUS EDITIONS OF THIS PUBLICATION
 USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707765 MALMSTROM AFB MT 74-87 9CP
STATION STATION NAME YEARS MONTH

PAGE 1500-17.0
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														
10/ 31																																			
11/ 29																																			
12/ 27																																			
01/ 25																																			
02/ 23																																			
03/ 21																																			
04/ 19																																			
05/ 17																																			
TOTAL		7.9	4.7	3.4	3.3	4.1	5.1	8.6	10.8	10.6	10.6	10.2	6.7	5.0	3.4	2.6	900	900	900	900															

USAFETAC FORM 0-26-5 (OLA) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	Z _g '	Z _h	X	° _h	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	1351052	30289	33.6	19.2	900	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	8411475	61947	68.8	12.8	900		2	50.5	39.3	19.5	9	90
Wet Bulb	2432731	46441	51.6	6.7	900		2					90
Dew Point	1176539	31917	35.5	7.8	900		30.3					90

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

757755 HALMSTROM AFB MT 74-87 YEARS SEP MONTH

PAGE 7 1500-0000
 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														
27 / 27																						46													
26 / 25																						27													
26 / 23																						16													
22 / 21																						13													
20 / 19																						9													
18 / 17																						4													
18 / 13																						7													
TOTAL		2	5	4	7	2	3	0	9	2	9	21	7	11	2	9	11	2	7	0	4	8	1	0	2	4	0	0	7	2	900	900	900		

Element (X)	Σx^2	Σx	Σx^2	Σx	No. Obs.	Mean No. of Hours with Temperature						Total
						= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	19732.9	38189	42.819	81.9	900							
Dry Bulb	3496188	55126	61.311	537	900			22.8	14.7	4.8	.2	90
Wet Bulb	2139915	43513	48.3	6.342	900			.6				90
Dew Point	1177138	11930	35.5	7.022	900		31.8					90

USAFETAC FORM 0-26-5 (D.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 WAFETAC
 AIR LEATHER SERVICE/PAC

PSYCHROMETRIC SUMMARY

700750 MALMSTROM AFB MT 74-57 SFP
 STATION STATION NAME YEARS MONTH
 PAGE 1 210-27 0
 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														
85/ 81																		1	1																
75/ 77																		2	2																
75/ 75																		5	5																
74/ 73																		7	7																
72/ 71																		17	13																
71/ 69																		14	14																
70/ 67																		21	21																
68/ 65																		44	44																
64/ 63																		63	57																
62/ 61																		53	53	4															
70/ 59																		56	56	4															
60/ 57																		60	50	0	1														
60/ 55																		78	49	0	4														
47/ 53																		85	85	76	9														
52/ 51																		57	53	64	18														
51/ 49																		82	82	1 6	21														
60/ 47																		61	61	158	1														
46/ 45																		34	34	101	37														
44/ 43																		49	47	123	35														
42/ 41																		36	36	93	47														
41/ 39																		46	36	75	37														
70/ 37																		25	25	59	76														
70/ 35																		13	13	46	132														
70/ 33																		7	7	76	118														
32/ 31																		2	2	7	130														
31/ 29																		1	1	1	76														
31/ 27																					44														
26/ 25																					35														
20/ 23																					3														
22/ 21																					9														
22/ 19																					9														
19/ 17																					3														
17/ 15																					1														

Element (X)	Σx ²	Σx	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

Form 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC
 AF 64

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FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAO

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

70-67

JFF
MONTH

PAGE 1 7100-2300
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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	1	1	9	9	13	21	7	4	13	7	9	9	7	3	4	1	7	2																

Element (X)	Z ₁	Z ₂	Z	T _a	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2890690	48024	53.4	19.105	900							90
Dry Bulb	2673141	48753	53.7	9.155	900		3	6.4	1.6	1		90
Wet Bulb	1846367	47825	44.9	5.835	900		9					90
Dew Point	1171060	31084	35.4	6.796	900		31.5					90

USAFETAC FORM 0-26-5 (O. A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
METEOROLOGICAL SERVICE/MAO

PSYCHROMETRIC SUMMARY

STATION 74-87
STATION NAME MALKSTROM AFB MT

74-87

YEARS

REF

MONTH

DATE

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																
77/73																		.1	5	5																	
77/69																		.1	5	5																	
76/65																		.1	5	5																	
77/63																		.1	5	5																	
77/61																		.2	23	23																	
77/59																		.1	45	45																	
77/57																		.1	43	43																	
76/55																		.1	44	44																	
76/53																		.1	43	43																	
77/51																		.1	49	49																	
77/49																		.1	48	48																	
77/47																		.1	47	47																	
76/45																		.1	46	46																	
76/43																		.1	44	44																	
77/41																		.1	43	43																	
77/39																		.1	41	41																	
77/37																		.1	40	40																	
76/35																		.1	39	39																	

Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-5 (O.L.A.) REVIDED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 1974
STATION STATION NAME YEARS MONTH ALL
PAGE 1 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														
1/ 23	0																	89	39	213	717														
2/ 21	0																	4	42	98	97														
3/ 22	0																	6	6	50	46														
4/ 27																				0	70														
5/ 26																		1	1	1	154														
6/ 23																					7														
7/ 21																					1														
8/ 19																					1														
9/ 17																					1														
10/ 15																					1														
11/ 13																					1														
TOTAL	1.1	2.4	11.4	17.7	11.7	10.2	9.2	8.5	7.3	5.9	4.6	3.4	2.8	1.9	1.2	0.9	0.5	7108		7198	7158														

Element (X)	Z ₁	Z ₂	X	σ _a	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	21770814	357122	49.6	21.583	7193							
Dry Bulb	25027203	413071	57.5	13.748	7209		4.7	17.5	104.4	41.7	1.9	700
Wet Bulb	16047046	335096	46.7	7.103	7198		13.7					700
Dew Point	9578092	248242	35.9	6.596	7198		231.1					700

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

74-97

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

300-0500
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														
65									.1									4	4																
63								.1	.1									7	7	3															
61								.2	.2									11	11																
59							.4	.4	.4									12	12																
57				.1		.1	.4	.4	.1									24	24																
55			.1	.1	.7	.4	1.6	.4	.4									32	32																
53			.3	.2	.1	1.2	.5	.2										24	24																
51			.2	.2	.4	1.6	1.7	.2										34	34	3															
49			.1	1.5	1.2	1.7	1.7	.1										55	55	7															
47		.7	.9	1.6	2.2	.9	.7											62	62	21	4														
45		.7	1.2	2.3	2.2	1.7	.7											68	68	52	2														
43		.2	2.3	3.5	1.9	.7												77	77	62	6														
41		1.2	2.4	2.0	.6	.7												67	67	86	11														
39		1.1	2.3	1.6	.9													63	63	19	20														
37		.2	2.8	3.3	1.5	1.7												83	83	48	37														
35		.3	2.6	2.4	.6													67	67	118	67														
33		.4	3.3	1.7	.6													59	59	77	84														
31		.4	3.5	2.4	.5													64	64	98	155														
29	1.2	1.7	1.6	.4														45	45	63	117														
27	.6	1.4	1.5	.2														35	35	52	172														
25		1.4	.6	.1														20	20	36	65														
23	.4	.6	.3															12	12	12	31														
21	.2	.4	.2															8	8	14	75														
19	.1	.4	.2															7	7	6	45														
17		.1																1	1	6	18														
15																				1	33														
13																					17														
11																					4														
9																					1														
7																					3														
5																					7														
TOTAL	3.922	0.25	0.917	0.311	0.3	7.6	7.1	2.7	1.8	.1	.3							930	930	930															

Element (X)	Σx^2	Σx	\bar{x}	s_x^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4065761	59237	63.71	7.947	937	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	1635615	38039	40.9	0.436	937		19.2					93
Wet Bulb	1218657	33090	35.6	6.567	937		29.9					97
Dew Point	785098	26298	28.3	6.680	937		77.1					93

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 HALLSTROM AFB MT

74-87

OCT
MONTH

STATION

STATION NAME

YEARS

PAGE 1

0900-1100
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														
11/11																																			
11/10																																			
TOTAL	2.81	6.61	7.51	7.13	4.15	2.17	2.7	7.2	3.0	3.8	2.0	1.1	.2			937	937	937	937																

Element (X)	$\sum X'$	$\sum X$	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	2772438	47130	57.72	20.331	937							93
Dry Bulb	2497777	46970	50.51	11.624	937		5.9	9.2	2.7			93
Wet Bulb	1633832	38442	41.1	6.944	937		11.4					93
Dew Point	976489	28407	30.5	6.462	937		55.4					93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WEATHER SERVICE/NAO

PSYCHROMETRIC SUMMARY

707255 MALMSTROM AFB MT 74-87 OCT
STATION STATION NAME YEARS MONTH

PAGE 1 12-0-14
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															
147 15																																				
147 13																																				
147 11																																				
147 G																																				
TOTAL	1.1	6.2	6.5	5.2	5.5	10.6	17.8	11.6	9.9	7.4	7.0	7.3	5.1	2.0	.9		930	930	930	930																

Element (X)	Σx'	Σx	Σ	Σ ₂	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	1909414	37082	47.8	19.636	937							937
Dry Bulb	3175257	52517	56.5	17.260	937		1.5	21.2	17.1	2.3		937
Wet Bulb	1851673	41705	44.1	6.859	937		6.1					937
Dew Point	882584	27967	30.1	6.722	937		67.1					937

USAFETAC Form 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-87 OCT
STATION STATION NAME YEARS MONTH

PAGE 2 1500-1730
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														
14 / 15																						19													
14 / 13																																			
11 / 11																						5													
11 / 9																						4													
TOTAL	.2	6.5	7.5	4.1	5.7	10.8	16.7	14.0	9.0	6.7	6.1	3.2	4.0	2.5	.7	.1	937	237	920	930															

Element (X)	Z ₁ '	Z ₂	I	a ₂	No. Obs.	Mean No. of Hours with Temperature						Total
Ref. Num.	1879085	37733	47.6	19.358	937	≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	3084047	52376	56.3	12.024	930		1.4	27.1	17.3	2.7		93
Wet Bulb	1539454	40876	48.7	6.791	930		5.0					93
Dew Point	873257	27743	29.8	7.110	930		67.3					93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77795 MALMSTROM AFB MT
STATION

74-83

YEARS

207
MONTH

PAGE 1
1800-2700
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	1.4	12.2	9.7	14.8	17.1	17.5	9.2	9.6	4.6	2.9	2.5	0.0	0.0				930		930	930	930

Element (X)	Z _g ¹	Z _g	X	Q ₂	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	2797069	47765	51.4	18.957	930	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	2282832	45118	48.5	10.558	930		4.7	3.5	0.2			93
Wet Bulb	1529319	37241	47.7	6.709	930		13.5					93
Dew Point	851879	27413	29.5	6.870	930		61.9					93

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

747755 MALMSTROM AFB MT
STATION STATION NAME

74-87
YEARS

OCT
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														
47/ 83															.1			6		6															
50/ 81														.1	.1			19		19															
57/ 79													.2	.2				38		38															
67/ 77												.1	.3	.3				41		41															
76/ 75											.1	.3	.4	.3				65		65															
74/ 73											.1	.3	.3	.3				65		65															
75/ 71											.1	.3	.4	.3	.1			81		81															
77/ 69											.1	.4	.4	.3	.2			117		117															
66/ 67									.1	.1	.3	.4	.4	.4	.1			172		172															
64/ 65								.1	.1	.7	.7	.7	.7	.7	.1			164		164															
64/ 63							.1	.1	.5	.9	.4	.2	.2	.2				195		195															
62/ 61							.2	.4	.7	1.2	.2	.2	.1	.1				227		227															
59/ 59					.3	.1	.7	.6	1.7	.5	.1	.1	.1					255		255	7														
62/ 57				.7	.1	.1	.5	1.9	1.7	.3	.2	.2	.2					321		321	22														
64/ 55			.1	.1	.4	1.2	2.2	1.1	.4	.1	.1	.1	.1					410		410	51														
61/ 53			.1	.1	.7	1.9	1.5	.5	.1	.1	.1	.1	.1					397		397	160														
62/ 51		.7	.1	.5	1.9	2.2	1.2	.7	.7	.7	.7	.7	.7					398		398	241	1													
57/ 49		.1	.5	1.7	1.7	1.4	1.1	.2	.2	.2	.2	.2	.2					447		447	343	2													
49/ 47		.3	.7	1.5	2.2	1.7	.7	.	.	.	.	.	.					490		490	435	37							
49/ 46	.3	.3	.8	1.6	1.9	1.2	.2	.	.	.	.	.	.					453		453	733	61							
44/ 43		.6	1.3	2.1	.7	.7	.1	.	.	.	.	.	.					427		427	675	77							
62/ 41		1.1	1.9	1.7	1.7	.4	.1	.	.	.	.	.	.					461		461	732	112							
66/ 39	.1	1.0	2.4	1.2	1.7	.1	.	.	.	.	.	.	.					425		425	736	249						
38/ 37	.2	1.6	1.7	.9	.7	.1	.	.	.	.	.	.	.					376		376	725	163						
76/ 35	.7	1.6	2.3	.8	.2	.	.	.	.	.	.	.	.					355		355	638	662					
74/ 33	.4	2.3	1.1	.7	.1	.	.	.	.	.	.	.	.					331		331	477	784					
72/ 31	.4	2.4	1.3	.6	.2	.	.	.	.	.	.	.	.					351		351	572	1287					
77/ 29	.3	1.1	.8	.2	.2	.	.	.	.	.	.	.	.					181		181	339	828					
28/ 27	.2	.7	.5	.1	.	.	.	.	.	.	.	.	.					178		178	265	794				
26/ 25	.1	.4	.3	.1	.	.	.	.	.	.	.	.	.					66		66	156	575				
74/ 23	.1	.3	.1	.	.	.	.	.	.	.	.	.	.					38		38	91	264			
22/ 21	.1	.2	.2	.	.	.	.	.	.	.	.	.	.					23		23	49	858			
22/ 19	.1	.1	.2	.	.	.	.	.	.	.	.	.	.					19		19	27	372			
18/ 17	.1	.1	.2	.	.	.	.	.	.	.	.	.	.					7		7	13	236			
Element (X)	Σ X'	Σ X	X	n	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																								
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC Form AF 54 0-26-5 (OLA) WINDY REVISIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 OCT MONTH
STATION STATION NAME YEARS PAGE 1 ALL HOURS (L. S. Y.)

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														
10/15																					4	140													
07/13																					3	64													
10/11																					1	40													
10/7																																			
10/5																																			
10/3																																			
TOTAL	2.214	7.15	6.13	3.41	2.11	1.11	0.5	2.5	4.6	2.8	2.5	1.2	1.0	.6	.1	.3			7440		744														

Element (X)	ΣX^2	ΣX	\bar{X}	s^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	ΣX^2	ΣX	\bar{X}	s^2	No. Obs.	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Rel. Hum.	2479.373	470439	53.927	2.362	7447							
Dry Bulb	17916862	353752	47.517	1.143	7447		79.6	54.7	23.4	4.3		744
Wet Bulb	11947604	292056	39.4	7.445	7440		144.7					744
Dew Point	6732772	218722	29.3	6.792	7440		509.3					744

USAFETAC FORM 44 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

FEDERAL CLIMATE DATA BRANCH
 USAF/TAC
 AIR WEATHER SERVICE /MAC

PSYCHROMETRIC SUMMARY

707766 MALMSTROM AFB MT 74-63 NOV 1966-1200
 STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

PAGE 1 0000-2200
 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															
47/47									.1									1	1																	
47/41																		2	2																	
47/39																		3	3																	
47/37										.1								13	13																	
47/35								.6	.7	.8								17	17																	
47/33						.4	.6	.7	.7	.1								19	19																	
47/31				.3	.7	.7	.6	.7	.2									21	21																	
47/29				.8	.4	.9	.8	.7										28	28																	
47/27				.8	.9	1.1	.6											25	25	0																
47/25				.9	1.0	.6	.3											27	27	14																
47/23				1.4	1.7	1.2	.2											30	30	24																
47/21			.3	.6	2.1	1.7	.2	.1										46	46	31																
47/19	.1	.7	.9	2.2	1.2	.0												50	50	30	12															
47/17		.1	1.3	2.1	.9	.1												41	41	47	2															
47/15		.3	1.7	2.2	1.1	.3												47	47	71	13															
47/13		.7	2.2	1.1	.7													46	46	55	22															
47/11		.3	3.2	3.3	.1													25	25	64	40															
47/9		1.2	2.1	1.2														37	37	75	38															
47/7		.3	2.3	3.1	.2													53	53	69	69															
47/5		.2	2.6	2.3	.2													52	52	81	70															
47/3		.3	1.2	1.8														50	50	67	44															
47/1		.4	1.2	1.3														45	45	74	102															
47/0		.3	1.9	.6														25	25	38	76															
47/-1	.1	1.4	.1															18	18	21	73															
47/-2		.7	1.4	.2														16	16	20	76															
47/-3		.3	1.4	.1														24	24	16	53															
47/-4		.1	1.3															17	17	23	49															
47/-5		.6																13	13	16	31															
47/-6		.4																5	5	9	31															
47/-7		.4																4	4	5	13															
47/-8	.2	.1																3	3	5	10															
47/-9		1.3																12	12	7	9															
47/-10	.7	.2																8	8	12	7															
47/-11	.2	1.2																13	13	14	5															
Element (X)	Σx^2	Σx	Σ	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total																									
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F																									
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM 0-26.5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAF/TAC

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

723755 MALMSTROM AFB MT

74-87

NOV
MONTH

PAGE 1 1990-0260
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														
-4/-5																																			
-1/-7	.1	.1																																	
-7/-6	.1																																		
-7/-11	.3																																		
-7/-13	.1																																		
-10/-15	.1																																		
-10/-19																																			
-17/-21																																			
-17/-27																																			
-24/-25																																			
TOTAL	5.6	28.9	21.0	18.1	11.1	7.1	6.1	4.1	3.0	1.2							900	900	900	900															

Element (X)	Σx^2	Σx	\bar{x}	s_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						= 50 F	= 52 F	= 67 F	= 73 F	= 80 F	= 93 F	
Rel. Hum.	3575202	54724	60.8	16.603	900							
Dry Bulb	1072326	28422	31.6	3.047	900	7.0	47.5					90
Wet Bulb	765971	24239	26.9	1.119	900	3.6	67.6					90
Dew Point	409239	16585	18.4	0.736	900	6.0	84.4					90

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2
7

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

127755 MALMSTROM AFB MT 74-67 NOV
STATION STATION NAME YEARS MONTH

PAGE 1 1100-05-1
HOURS (L. S. Y.)

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														
74/ 65																		2		2															
74/ 63																		2		1															
74/ 61																		1		1															
74/ 59																		6		6															
74/ 57																		4		4															
74/ 55							.2	.2										15		15															
74/ 53						.7	.7	1.1										27		27															
74/ 51				.1	.3	.7	.8	.9										22		22															
74/ 49				.1	.3	.7	.4	.7										16		16															
74/ 47			.1	.6	.6	.6	.1	.7										23		23		0													
74/ 45			.1	.1	1.0	.8	.6	.7										33		33		19													
74/ 43				1.2	1.7	1.2	.6											52		42		15													
74/ 41	.1	.4	2.3	.7	1.7													46		46		33													
74/ 39	.2	1.2	2.8	.6	.3													46		46		38													
74/ 37	.2	1.6	2.1	.7														43		43		38													
74/ 35	.1	1.2	2.7	.6	.1													36		36		73													
74/ 33	.4	1.7	1.6	.6														43		43		63													
74/ 31	.2	2.1	3.4	.7														77		77		64													
74/ 29	.2	1.9	2.8	1.2	.1													56		56		73													
74/ 27		2.1	3.8	.3														40		40		69													
74/ 25	.6	3.2	1.7	.4														51		51		72													
74/ 23	.2	2.3	1.4															36		36		73													
74/ 21	.6	2.6	.7															47		47		53													
74/ 19	.2	3.8	.3															39		39		35													
74/ 17		1.8	.1															17		17		32													
74/ 15	.3	1.9	.3															23		23		25													
74/ 13	.2	1.6																16		16		18													
74/ 11	.3	.8	.2															12		12		17													
74/ 9	.4	1.6																18		18		15													
74/ 7	.1	.9																9		9		15													
74/ 5	.1	.1																2		2		6													
74/ 3	.4	.9																12		12		9													
74/ 1		.7																6		6		6													
74/ -1	1.7	.7																15		15		13													

Element (X)	Σ X'	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (O.L.A.) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775 MILMSTROM AFB MT

74-83

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE

0300-0500

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															
-7 -3		.9																9	9	15	8															
-4 -5		.1	.1															1	1	1	1															
-7 -7		.1																1	1	1	3															
-9 -9																					7															
-11 -11		.2																2	2	2	7															
-13 -13																					9															
-15 -15																					1															
-17 -17		.1																1	1	1	1															
-19 -19		.1																1	1	1	1															
-21 -21		.1																1	1	1	3															
-25 -25																					1															
-29 -29																					1															
TOTAL	6.4	31.1	19.4	13.3	9.4	7.4	5.7	5.1	4.2	3.4							910	903	903	903																

Element (X)	$\Sigma X'$	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3689554	55544	61.7	17.59	907	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb	1042097	27887	31.0	14.71	907	3.1	49.8					90
Wet Bulb	46725	23849	26.5	11.98	907	3.5	60.7					90
Dew Point	399911	16345	19.2	10.707	907	6.5	85.3					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775F MALMSTROM AFB MT 74-83 YEARS NOV

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	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63																		2	2		
72/ 61																		3	3		
77/ 59						.1	.1	.2										4	4		
78/ 57						.2	.1	.2	.3									5	9		
74/ 55				.1	.2	.3	.6	.4	.1									16	14		
76/ 53				.2	.2	1.1	.2	.1										18	18		
72/ 51				.4	.0	.2	.4	.2										20	27		
62/ 49			.2	.4	1.6	.6	.7	.1										29	29	4	
69/ 47			.2	.6	.6	.8	.7											24	24	5	
66/ 45			.2	.4	1.6	1.1	.1											31	31	13	
64/ 43		.1	.1	.8	2.1	1.8	.4											46	48	13	
62/ 41		.1	1.4	1.2	.8													29	29	41	1
67/ 39	.1	.3	.9	2.4	.6	.7												42	42	71	6
79/ 37	.2		1.3	2.7	1.1													41	41	41	13
76/ 35		.1	1.3	1.7	.4	.7												34	34	73	8
74/ 33	.6	.6	1.6	2.0	.9	.1												52	52	67	12
72/ 31	.1	1.7	3.2	2.4	.7													67	67	52	32
70/ 29	.7	2.3	3.7	.8	.3													70	70	57	45
78/ 27	.7	2.2	3.2	.3														56	56	79	57
76/ 25	.3	2.2	2.7	.2														49	49	9	91
74/ 23	.2	1.8	1.7															33	33	57	42
72/ 21	.3	2.6	.6															31	31	51	69
70/ 19	.4	4.1	.3															44	44	43	81
68/ 17	.2	2.7																26	26	34	71
66/ 15	.3	.4	.3															13	10	25	74
64/ 13	.1	1.3																13	13	4	82
62/ 11	.6	1.2																16	16	21	52
60/ 9	.4	1.7	.1															22	22	16	28
58/ 7	.1	1.1																11	11	14	24
56/ 5		.3	.1															4	4	11	12
4/ 3		1.1																10	10	6	13
2/ 1	.2	.9																10	10	13	12
1/ -1	.0	.2																10	10	11	11
-2/ -3	.1	1.7																16	16	16	10
Element (X)	ΣX'	ΣX	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F										
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 NOV
STATION STATION NAME YEARS MONTH
PAGE 2 0600-08:00
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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														
-07 -5	.1																	1	1	3	4														
-07 -7																					17														
-07 -9	.1																	1	1	1	4														
-07 -11	.1																	1	1	1	6														
-07 -13																					17														
-07 -15	.1																	1	1	1	5														
-07 -17																					1														
-07 -19																					1														
-07 -23																					1														
-07 -25																					1														
TOTAL	7.130	4.21	2.15	1.1	0.4	0.6	3.0	2.0	1.1								900	900	900	900															

Element (X)	Σ x'	Σ x	R	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	3652988	55164	61.3	17.388	900							97
Dry Bulb	1037529	27797	37.9	14.111	900	7.0	50.0					90
Wet Bulb	739755	23719	26.4	11.293	900	3.0	67.8					90
Dew Point	391540	16064	17.8	10.798	900	7.0	85.0					90

USAFETAC FORM 0-26-5 (OLA) 10 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
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1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 NOV
STATION STATION NAME YEARS MONTH
PAGE 7 0900-1100
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
7/ -1	.4	.9															10	10	12	9
7/ -1	.4	.7															7	7	7	4
-7/ -3		.8															7	7	9	9
-4/ -5	.7																0	0	3	8
-6/ -7		.1															1	1		6
-8/ -9	.1																1	1	3	4
-17/ -11																				7
-12/ -13																				4
-14/ -16																				7
-18/ -19																				7
-22/ -21																				1
TOTAL	4.8	27.1	14.9	13.5	14.7	11.5	9.7	9.7	3.3	1.3	.6	.3					859	900	809	899

Element (X)	ΣX^1	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.	3033681	49291	54.8	19.202	899							90
Dry Bulb	1389049	32723	36.4	14.988	900	1.8	35.4	.7				90
Wet Bulb	926600	27766	30.1	11.154	899	7.1	49.5					90
Dew Point	446370	17806	19.8	10.215	899	4.8	85.0					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 NOV MONTH

PAGE 1 1001-1000
HOURS (L. S. Y.)

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
74/ 73													.1					12	12		
73/ 71										.7		.4						9	9		
71/ 69									.1	.7		.1						3	3		
69/ 67																		12	12		
66/ 65										.1	.6							22	22		
64/ 63							.1	.3	.7	1.2	.4							23	23		
62/ 61						.4	.1	.4	1.1	.7	.7							28	28		
61/ 59						.2	.3	1.1	.7	.6	.3							29	29		
60/ 57					.1	.1	.3	1.1	.9	.2								38	38	1	
60/ 55							1.3	2.2	.6									33	33	3	
58/ 53				.2	.7	.6	.7	1.4	.7									39	39	13	
52/ 51				.2	.1	.8	1.6	1.3	.3									54	54	23	
50/ 49			.1		.6	2.6	1.9	.2	.1									45	45	21	1
48/ 47				.1	.6	1.8	1.4	1.7	.1									59	59	54	2
46/ 45				.3	1.3	3.2	1.6	.1										43	43	46	3
44/ 43			.1		.4	.7	2.7	.7										42	42	60	3
42/ 41				.2	1.1	2.9	.3											72	72	65	8
40/ 39		.1	.3	.9	1.3	1.6	.2											54	54	75	51
38/ 37				.7	1.4	1.1	.8											62	62	79	8
36/ 35		.0	1.4	2.4	1.4	.7												70	70	81	41
34/ 33		.9	2.0	1.2	1.0													54	54	75	51
32/ 31			2.1	1.9	1.8	.2												6	6	25	60
31/ 29		.7	1.7	.3	.7													12	12	14	82
29/ 27		.4	.4	1.1	.2													18	18	7	79
26/ 25		.1	.2	.6														11	11	16	55
24/ 23			.4	.2														8	8	12	83
22/ 21			1.2	.1														7	7	7	55
20/ 19			1.9	.1														6	6	6	40
18/ 17			1.2															9	9	10	23
16/ 15			.6	.3														5	5	5	27
14/ 13		.2	.4	.1																	
12/ 11		.1	.6																		
10/ 9			1.0																		
8/ 7																					

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC



GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

70775E MALMSTROM AFB MT 74-87 NOV
 STATION STATION NAME YEARS MONTH
 PAGE 1 12 10-14 10
 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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
47-5			.3															3	3	6	5
47-3		.2	1.1															10	2	6	9
47-1			.8															7	4	13	17
47-1		.2	.4															6	6	7	4
47-3			.9															9	8	9	4
47-5																					2
47-7																					2
47-9																					2
47-11																					2
47-13																					3
47-15																					1
47-17																					1
TOTAL		1.0	1.3	9.0	10.8	9.0	17.5	11.0	9.0	4.7	0.9	2.6	0.0	0.0				898	890	398	890

Element (X)	Z _g	Z _x	I	%	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	2374524	42632	47.5	10.77	898							90
Dry Bulb	1737865	37013	41.2	15.437	899	1.4	22.5	2.6	0.2			90
Wet Bulb	1079523	29517	37.9	11.030	898	1.8	39.1					90
Dew Point	454012	18188	20.3	9.771	898	3.7	84.7					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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FEDERAL BUREAU OF SURVEY
CLIMATE DIVISION
METEOROLOGICAL SERVICE/NAO

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 74-87 NOV MONTH

PAGE 1 1500-1700 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																
74/ 73																																	2	2		
72/ 71																																		2	2	
71/ 69																																		12	12	
70/ 67																																		2	2	
69/ 65																																		13	13	
68/ 63																																		11	11	
67/ 61																																		20	20	
67/ 59																																		24	24	
66/ 57																																		16	16	
65/ 55																																		40	40	1
64/ 53																																		35	35	1
63/ 51																																		43	43	8
62/ 49																																		39	38	23
61/ 47																																		41	41	20
60/ 45																																		58	58	35
60/ 43																																		45	45	49
59/ 41																																		42	42	56
58/ 39																																		51	51	59
58/ 37																																		49	49	6
56/ 35																																		65	65	67
54/ 33																																		50	50	87
53/ 31																																		56	56	86
51/ 29																																		24	24	90
48/ 27																																		28	28	57
46/ 25																																		11	11	41
44/ 23																																		8	8	33
42/ 21																																		6	9	17
40/ 19																																		23	23	13
39/ 17																																		8	8	21
36/ 15																																		14	15	10
34/ 13																																		7	7	9
32/ 11																																		2	2	7
31/ 9																																		11	11	10
28/ 7																																		4	4	5
Element (X)	Σ X ²		Σ X		Σ		Σ ²		No. Obs.		Mean No. of Hours with Temperature																									
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																			
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM NO. 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC

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GENERAL CLIMATOLOGY BRANCH
USAFETAC
AFS WEATHER SERVICE/PAC

PSYCHROMETRIC SUMMARY

727755 KALMSTROM AFB MT 74-87 NOV 1960-2300
 STATION MONTH YEARS HOURS (L. S. T.)

PAGE 1 1960-2300
 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														
65/65																		2	2																
60/62									.1									2	2																
55/61									.1									2	2																
50/60									.1									11	11																
55/57									.3									14	14																
60/55					.1			.1	.3									15	15																
64/52					.1	.6	1.0	1.3	.1									28	28																
62/51					.1	.6	1.0	1.1	.1	.1								27	27	1															
67/49					.1	.6	1.0	1.0	.7	.6								29	29	5															
65/47		.1			.3	1.0	1.2	.6	.2	.2								34	34	9															
66/45		.1			1.0	1.0	.9		.1									37	37	17															
64/43		.3			1.0	1.0	1.2	.2										37	37	31															
62/41		.1	.4	1.1	1.3	1.0	.1											44	44	39	5														
61/39			.4	2.0	1.4	.9												48	48	56	4														
58/37			1.0	2.0	1.1	.7												45	45	48	7														
55/35		1.0	2.0	2.1	2.2	.7												76	76	51	25														
74/23		2.1	1.5	2.5	.7	.1												62	62	76	19														
72/21		2.5	2.0	1.8	.6													69	69	95	23														
70/20	.4	1.0	1.6	1.7	.1													51	51	60	55														
68/27	.4	1.4	2.1	.8														43	43	58	76														
66/25	.1	1.4	2.3	.7														38	38	63	74														
64/23	.1	.9	1.7															24	24	49	49														
62/21		1.1	1.6	.1														25	25	37	71														
60/19	.1	2.0	1.0	.1														29	29	33	84														
58/17	.1	1.1																11	11	30	40														
56/15	.2	1.6	.1	.1														18	18	22	64														
54/13		1.2																11	11	13	63														
52/11	.1	.7																7	7	11	56														
50/9	.1	.4	.1															5	6	11	41														
47/7		.7																6	6	4	31														
45/5	.4	.3																7	7	12	9														
42/3	.1	.4																5	5	5	12														
39/1	.3	.7																9	9	3	13														
37/-1	.6																	5	5	11	7														

Element (K)	Z _g ¹	Z _x	X	° _g	No. Obs.	Mean No. of Hours with Temperature					Total	
Ref. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

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FEDERAL CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

STATION: 700755 MALMSTROM AFB MT STATION NAME: YEARS: 74-87 MONTH: NOV
 RANGE: 1277-2007 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
-7/-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7/-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4.5	23.7	19.3	18.1	13.7	11.0	4.9	3.0	1.4	.1							897	897	897	

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	3171877	51053	56.9	17.236	897							97
Dry Bulb	1205837	30411	33.9	13.052	897	2.3	38.3					97
Wet Bulb	336504	25540	28.5	11.34	897	7.9	56.7					97
Dew Point	421476	16924	18.9	10.678	897	5.3	85.5					97

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

027755 MALMSTROM AFB MT 74-87 53V
 STATION STATION NAME YEARS MONTH
 PAGE 1 1108-2100
 HOURS (L. S. Y.)

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														
67/67																		1	1																
67/61																		1	5																
67/59																		4	4																
67/57																		18	18																
67/55																		10	15																
67/53																		19	19																
67/51																		23	23																
67/49																		23	23	6															
67/47																		19	19	3															
67/45																		22	22	13															
67/43																		26	32	7															
67/41																		37	37	25	3														
67/39																		47	47	42	1														
67/37																		51	51	39	7														
67/35																		57	57	57	11														
67/33																		59	59	54	15														
67/31																		91	91	92	47														
67/29																		61	61	66	27														
67/27																		43	43	34	77														
67/25																		45	45	73	76														
67/23																		18	18	55	52														
67/21																		31	31	62	77														
67/19																		45	45	36	94														
67/17																		20	20	32	65														
67/15																		13	13	22	66														
67/13																		15	15	15	56														
67/11																		14	14	18	61														
67/9																		7	7	11	27														
67/7																		4	4	9	11														
67/5																		7	7	6	13														
67/1																		10	10	5	17														
67/-1																		6	6	5	17														
67/-3																		10	10	13	2														

Element (X)	Σ X'	Σ X	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26.5 (OLA) REVISED MAY 68 EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 74-87 NOV
 STATION STATION NAME YEARS MONTH
 PAGE 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														
77-5	.1	.3																71	31	59	80														
67-5	.7	.7																64	64	49	87														
57-3	.2	.3																72	72	60	88														
47-1	.5	.7																67	67	60	84														
37-3	.1	1.0																78	70	73	83														
27-5	.1	.0																8	8	7	87														
17-7	.1	.7																7	7	4	87														
7-0	.1																	7	7	10	87														
7-11	.7																	11	11	11	41														
17-13	.1																	4	4	4	57														
14-15	.7																	7	7	3	24														
17-17	.7																	7	7	2	7														
17-19	.1																	8	4	4	17														
17-21	.0																	2	2	2	17														
17-23																					4														
14-25																					5														
17-28																					7														
17-71																					1														
TOTAL	4.9	74.8	17.1	5.5	11.5	15.0	6.7	4.0	2.3	1.1	.4	.5	.1					7189	7102	7189	7189														

Element (X)	Σx'	Σx	K	Σ _n	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	10188014	248486	34.6	14.729	7189	10.3	312.3	4.9	.4			720
Wet Bulb	6893616	276959	24.4	11.412	7189	21.8	432.4					720
Dew Point	3376101	136257	19.7	10.007	7189	42.7	681.3					720

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-87 YEARS DEF MONTH

PAGE 1 FORM-0700
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															
11/ 67																																3	3		
11/ 55																																1	1		
14/ 53																																11	11		
17/ 51																																14	14		
17/ 49																																19	19		
18/ 47																																13	13		
18/ 45																																18	18		
19/ 43																																26	26		
19/ 41																																48	48		
19/ 39																																46	46		
19/ 37																																47	47		
19/ 35																																51	51		
20/ 33																																43	43		
22/ 31																																82	82		
23/ 29																																55	55		
23/ 27																																30	30		
24/ 25																																42	42		
24/ 23																																32	32		
27/ 21																																44	44		
27/ 19																																44	44		
28/ 17																																32	32		
28/ 15																																28	28		
28/ 13																																21	21		
29/ 11																																19	19		
10/ 9																																16	16		
8/ 7																																11	11		
6/ 5																																9	9		
4/ 3																																9	9		
2/ 1																																22	22		
1/ -1																																11	11		
-2/ -3																																17	13		
-4/ -5																																13	13		
-6/ -7																																9	9		
-8/ -9																																7	7		
Element (K)	Z _g	Z _x	X	F _x	No. Obs.	Mean No. of Hours with Temperature																													
Ref. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF - FORM ARE OBSOLETE
USAFETAC

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GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-80 YEARS DFC
 STATION STATION NAME MONTH
 PAGE 1 0000-0200
 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															
7/-11	1																	0	0	0	7															
7/-13	2																	3	3	3	2															
7/-15	3																	2	2	2	0															
7/-17	3																	2	3	3	4															
7/-19	4																	2	2	2	2															
7/-21	4																	2	2	0	5															
7/-23	1																	1	1	1	3															
7/-25	2																	2	2	2	5															
7/-27	1																	1	1	1	1															
7/-31																					4															
7/-33																					1															
7/-35																					1															
7/-37																					1															
TOTAL	12.6	20.5	20.7	18.0	11.6	5.6	1.8	1.0										937	933	934	933															

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	3847967	58787	62.5	15.416	937							
Dry Bulb	855253	24777	25.9	15.000	937	8.1	59.7					93
Wet Bulb	671272	20552	22.1	13.411	937	8.9	72.2					93
Dew Point	337288	12912	13.9	13.042	937	12.4	90.2					93

USAFETAC FORM 44 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 77-80 YEARS DEC 0300-0500
STATION STATION NAME MONTH HOURS (L. S. Y.)

PAGE 0300-0500

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															
57/57									.1	.1	.2							5	5																	
56/55								.1	.1	.2								6	5																	
54/53						.4	.2	.2										11	11																	
52/51				.1	.2	.5	.1	.2										12	12																	
51/49				.1	.2	.5	.2	.2										15	15																	
49/47				.2	.1	.3	.2	.2										10	10																	
46/45				.1	.6	.5	.2											19	19	8																
44/43			.1	1.3	1.3	.5	.3											33	33	8																
42/41		.1	.8	1.4	1.3	.9	.1											42	42	24																
40/39		.1	.9	1.2	1.9	.5												42	42	16	1															
39/37		.3	1.7	2.4	.9													42	42	37	3															
37/35		.3	1.6	3.0	1.5	.1												61	61	43	9															
34/33	.1	.2	.9	2.7	.9													43	43	63	12															
32/31		.6	3.3	2.6	.2													69	69	58	31															
30/29	.2	1.5	2.5	.6														45	45	56	32															
29/27	.3	1.7	2.3	.5														45	45	96	30															
26/25	.3	1.4	2.4	.4														42	42	67	43															
24/23	.1	2.2	1.7															30	30	52	36															
22/21	1.1	2.8	1.6															51	51	57	84															
20/19	.6	4.3	.6															52	52	42	93															
19/17	.3	2.2	.2															25	25	48	79															
16/15	.4	2.3	.3															28	28	27	85															
14/13	.5	2.2																25	25	25	57															
12/11	.4	1.6																19	19	25	67															
10/9	.3	1.2																14	14	22	51															
8/7	.9	1.5																22	22	29	91															
6/5	.5	.5																10	10	14	19															
4/3	.2	.2																4	4	6	21															
2/1	.2	1.9																20	20	11	23															
1/-1	.9	.2																10	10	13	7															
-2/-3	.9	.3																11	11	11	5															
-4/-5	.9	.3																11	11	10	7															
-6/-7	.6	.1																7	7	9	10															
-8/-9	1.7																	16	16	17	10															
Element (X)	Σ X ²	Σ X	X	σ _x	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																								
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
 USAFETAC

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-37 DEC
STATION STATION NAME YEARS MONTH
PAGE 0300-0500
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
7/-11	1.2																	11	11	11	7
10/-13																		6	6	6	9
16/-17	.6																	5	5	5	1
18/-19	.3																	3	3	3	10
21/-21	.2																	2	2	2	6
27/-23	.3																	3	3	3	1
4/-25	.3																	3	3	3	6
7/-27																					7
18/-29																					4
27/-33																					4
4/-35																					3
36/-37																					2
TOTAL	15.233	119.216	717.2	4.5	2.3	1.6	.2											970	937	930	937

Element (X)	ΣX^2	ΣX	\bar{X}	s_x^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	
Rel. Hum.	3801314	58396	62.81	547	937							
Dry Bulb	846133	23591	25.416	329	937	8.8	58.9					93
Wet Bulb	615175	20159	21.413	857	930	9.8	73.1					93
Dew Point	340158	12548	13.413	561	937	12.3	90.6					93

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 73-87
 STATION MONTH YEARS
 PAGE 1 0600-0800
 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
58/ 57							.2		.2								4	4	
56/ 55							.2		.1								7	3	
54/ 53					.7	.7	.3	.4									15	15	
52/ 51				.1		.2	.2										5	5	
51/ 49				.1	.6	.7		.7									17	17	
49/ 47				.1	.3	1.2	.4	.2									20	20	2
46/ 45				.4	1.1	.7	1.1										26	26	5
44/ 43				.3	1.3	.5	.9										22	22	6
42/ 41				.7	1.3	1.7	.4	.1									36	36	18
40/ 39			.3	1.1	2.2	1.6	.2	.1									51	51	22
38/ 37			.2	.9	2.6	1.0											42	42	3
36/ 35			.6	.6	2.6	1.2											47	47	49
34/ 33			.4	1.6	2.5	1.2											53	53	77
32/ 31			.5	3.1	1.0	.4											47	47	53
31/ 29			.9	3.4	1.4	.1											54	54	58
29/ 27	.4	2.3	2.5	.2													50	50	83
26/ 25	.2	1.7	2.3	.7													42	42	72
24/ 23	.5	2.0	.5	.1													30	30	52
22/ 21	.4	2.7	1.1														33	33	49
20/ 19	.9	4.1	.9														54	54	35
18/ 17	.2	3.5	.7														37	37	48
16/ 15	.4	3.3	.2														37	37	47
14/ 13	.6	2.5															29	29	35
12/ 11	.5	1.1	.1														16	16	23
10/ 9	.5	1.6															20	20	25
8/ 7	1.1	.9															18	18	21
6/ 5	.3	.4															7	7	9
4/ 3	.6	.2															8	8	8
2/ 1	.2	1.8															19	19	13
0/ -1	.6	.5															11	11	13
-2/ -3	.4																4	4	9
-4/ -5	.6	.3															9	9	6
-6/ -7	1.1	.4															14	14	13
-8/ -9	1.4																13	13	17
Element (X)	ΣX^2	ΣX	\bar{X}	σ^2	No. Obs.	Mean No. of Hours with Temperature						Total							
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F								
Dry Bulb																			
Wet Bulb																			
Dew Point																			

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-92 DFC
 STATION STATION NAME YEARS MONTH

PAGE 2 0600-0800
 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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														
11/-11	.9																	8	8	8	5														
12/-13	.4																	4	4	4	7														
14/-15	.8																	3	3	3	6														
17/-17	.2																	2	2	2	14														
18/-19	.5																	5	5	5	17														
21/-21	.3																	3	3	3	8														
22/-23	.2																	2	2	2	5														
24/-25	.5																	5	5	5	2														
26/-27																					4														
28/-29																					8														
27/-23																					7														
24/-25																					6														
27/-23																					1														
TOTAL	14.7	31.8	18.7	15.6	10.9	3.2	3.5	1.7	.3								937	937	937	937															

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 67 F	≤ 72 F	≤ 80 F	≤ 93 F		
Rel. Hum.	3939046	58694	63.1	15.897	937						93
Dry Bulb	840281	23497	25.3	16.293	930	8.3	58.4				93
Wet Bulb	610198	20080	21.6	13.789	930	9.0	72.1				93
Dew Point	337251	12529	13.5	13.466	937	11.5	90.5				93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 73-80 YEARS MONTH DEC

PAGE 1 1973-1103 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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
61									.1									7		7															
57						.2		.7		.2								7		7															
55					.1	.4	.6	.7		.1								15		15															
53					.1	.4	.5	.2										12		12															
51						.4	.8	.1	.3									15		15															
49						.1	1.1	.5	.4									20		20															
47				.4	.0	.8	1.1	.2										31		31	6														
45			.1	1.2	.9	1.2	1.5											41		41	6														
43				.3	1.5	1.8	.1											39		39	17														
41		.1	.5	2.2	2.4	.9												55		55	25	1													
39		.2	.8	1.3	2.5	.5												49		49	41	3													
37		.2	.6	1.9	1.6	.2												43		43	4	4													
35		.3	.9	2.7	1.8													53		53	65	9													
33		.5	1.9	2.5	.8													49		49	28	13													
31		1.2	2.3	2.8	.2													58		58	61	32													
29	.1	.8	2.7	1.7	.1													43		43	69	36													
27	.2	2.8	1.5	1.2														53		53	71	37													
25	.1	1.5	1.4	.2														30		30	74	59													
23	.8	1.8	.5	.1														30		30	49	51													
21	.5	1.4	1.1															29		28	41	63													
19	.6	2.7	.8															38		38	28	153													
17	.4	2.5	.3															30		30	34	71													
15	.1	1.9																19		19	35	72													
13	.5	1.6	.1															21		21	28	57													
11	.1	1.5																15		15	12	70													
9	.3	1.7																19		19	24	36													
7	.6	1.3																18		18	18	35													
5	.6																	6		6	15	17													
3	.1	.5																6		6	6	22													
1	.6	1.2																17		17	13	21													
-1	.4	.2																6		6	8	4													
-3	.2	.5																7		7	5	11													
-5	.5	.4																9		9	9	10													
-7	.9	.6																14		14	12	4													
Element (X)	2x'	2x	X	e _s	No. Obs.	Mean No. of Hours with Temperature																													
Rel. Hum.						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 ATE WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72775F MALMSTROM AFB MT

73-90

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0970-1107

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															
07-09	.6	.2																	6	6	6	5														
11-11	1.0																		9	9	13	6														
17-13	.1																		1	1	1	0														
18-15	.4																		4	4	4	6														
16/-17	.2																		2	2	2	1														
18/-16	.2																		2	2	2	1														
20/-21																						0														
22/-23	.5																		5	5	5	1														
26/-25	.3																		3	3	3	1														
26/-27																						0														
28/-29																						0														
28/-31																						1														
27/-33																						4														
24/-35																						1														
TOTAL	11.277	6.15	5.17	4.17	2.0	7.7	5.2	1.0	.6	.1								93	63	93	35															

Element (X)	Σx'	Σx	I	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F		≤ 93 F
Rel. Hum.	3579.225	55513	50.7	16.908	937							
Dry Bulb	1011876	26540	28.5	16.551	937	6.8	49.9					97
Wet Bulb	717871	22339	24.0	13.695	937	7.2	64.6					93
Dew Point	368546	13984	15.7	13.753	937	9.9	90.1					93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT

77-82

DEC
 MONTH

PAGE 1 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	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
67/51								.1	.1											
67/59							.3	.5	.2											
67/57						.2	.4	.3	.2	.2										
67/55						.6	.6	.8	.2											
67/53					.9	1.5	.7	.4	.1											
67/51				.5	1.0	.6	1.2	.1												
67/49					.8	1.9	1.2	.7												
67/47				.4	1.1	1.1	1.6	.4												
67/45			.2		.7	1.4	2.5	1.1												
67/43		.1		.5	1.6	3.1	.7													
67/41		.2	.5	.9	2.2	1.1														
67/39		.2	.2	1.3	2.5	1.0	.1													
71/37			.8	1.6	2.5	.9														
71/35	.2		.6	2.2	1.7	.1														
74/33		.5	1.4	2.2	1.1															
77/31		.4	3.2	2.3	.9															
77/29	.2	1.6	1.5	1.2																
78/27		1.6	1.7	.1																
76/25	.3	1.7	1.7																	
74/23		.8	.8	.1																
72/21	.5	1.3	.5																	
72/19	.2	.4	.1																	
67/17		.8	.2																	
67/15	.3	.3	.5																	
74/13	.1	1.3	.1																	
72/11	.5	2.4	.1																	
77/9	.2	1.6																		
67/7	.4	1.2	.1																	
67/5	.5	.7																		
47/3	.2	.5																		
77/1		.9																		
67/-1	.2	1.1																		
-7/-3	.4	.5																		
-4/-5	.5	.8																		

Element (X)	Z ₁	Z ₂	Z ₃	Z ₄	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1
2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAO

PSYCHROMETRIC SUMMARY

70775F MALMSTROM AFB MT 73-87 DEC
 STATION STATION NAME YEARS MONTH
 PAGE 1 1277-14 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															
7-9	0																																		
7-11	.1																																		
7-13	.2																																		
7-15	.3																																		
7-17	.4																																		
7-19	.5																																		
7-21	.6																																		
7-23	.7																																		
7-25	.8																																		
7-27	.9																																		
7-31	1.0																																		
TOTAL	7.0	2.0	5.1	3.0	13.0	16.0	11.5	3.1	4.4	1.0																									

USAFETAC FORM NO 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Element (X)	$\sum X^2$	$\sum X$	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Num.	2983313	57018	53.8	17.78	37							97
Dry Bulb	1266751	37589	37.9	16.75	93	5.9	38.8					97
Wet Bulb	840282	25068	27.0	13.71	93	6.2	54.5					97
Dew Point	388023	15147	16.3	12.33	93	4.6	88.9					97

AD-A141 229

MALMSTROM AFB MONTANA REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVAT... (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A... FEB 84
USAFETAC/DS-84/007 S81-AD-E850 815

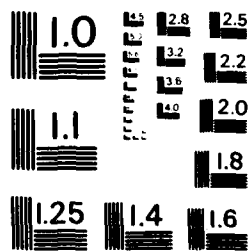
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UNCLASSIFIED

F/G 4/2

NL

END
10
11



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT

77-80

DEC

PAGE 1 1500-1700
MONTH
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															
67/ 61									.1	.2																			3	3					
57/ 59												.1	.1	.1															3	3					
57/ 57							.7	.1	.7	.1																		7	7						
56/ 55							.5	.4	.3	.1																		17	17						
54/ 53							.8	.7	.4	.5	.7																	21	21						
52/ 51							.1	1.7	.5	1.1	.1																	26	26						
51/ 49							.9	1.2	1.1	.7	.2																	33	33						
50/ 47					.5	.9	.8	.8	.5																			32	32	3					
48/ 46			.1	.8	1.8	1.5	1.4	.1																				53	53	15					
46/ 43				.4	1.1	2.4	.3																					39	39	17					
45/ 41			.9	1.7	2.5	1.7	.3																					62	62	36					
44/ 39		.2	.7	1.8	2.2	.6																						58	58	41					
39/ 37		.1	1.1	1.8	2.4	1.1																						60	60	58					
36/ 35	.1	.2	.8	2.5	1.2	.2																						44	44	68					
34/ 33	.1	.7	2.9	.6	.3																							48	48	90					
32/ 31	.3	1.0	3.4	2.4	.6																							72	72	79					
31/ 29		1.9	1.4	1.8	.7																							51	51	73					
28/ 27	.1	1.5	1.7	.4																								35	35	93					
26/ 25	.3	1.1	1.7	.7																								29	29	55					
24/ 23	.1	.9	1.2																									20	20	52					
22/ 21	.4	1.2	1.1																									25	25	40					
21/ 19	.3	1.2	.7																									16	16	19					
18/ 17	.2	.5																										7	7	17					
16/ 15	.3	1.3																										15	15	13					
14/ 13	.1	.8																										8	8	8					
12/ 11	.1	1.9																										19	19	13					
10/ 9		1.4																										13	13	18					
8/ 7	.4	1.5																										18	18	15					
6/ 5	.5	.6																										11	11	21					
4/ 3	.4	.4																										8	8	9					
2/ 1	.4	1.6																										19	19	13					
0/ -1	.4	.8																										11	11	11					
-2/ -3	.4	.8																										11	11	15					
-4/ -5	.2	.5																										7	7	4					

USAFETAC FORM 8-64 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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2
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-87 YEARS DEC MONTH
STATION STATION NAME PAGE 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														
-6/-7	.1																	1	1			0													
-8/-9	.2																	3	3			17													
-10/-11	.3																	5	5			5													
-12/-13	.4																	1	1			6													
-14/-15	.5																	2	2			8													
-16/-17	.6																	2	2			5													
-18/-19	.7																	3	3			9													
-20/-21	.8																	1	1			6													
-22/-23	.9																	1	1			7													
-24/-25	1.0																	1	1			5													
-26/-27																						0													
-28/-29																						7													
-30/-31																						1													
-32/-33																						7													
-34/-35																						7													
TOTAL	9.0	27.0	14.8	16.9	15.3	12.6	5.2	1.4	0.4	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	93	93	93	93	93													

Element (X)	Σg'	Σg	I	g _a	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1138594	51514	55.4	17.520	930	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1162181	29167	31.4	16.327	937	5.4	42.4					93
Wet Bulb	787203	24117	25.4	13.197	937	6.4	67.2					93
Dew Point	374569	14591	15.7	12.521	937	9.3	89.5					93

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

77755 MALMSTROM AFB MT 73-87 85C
STATION STATION NAME YEARS MONTH
PAGE 2176-2310
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														
55/ 55							.4																									4	4		
54/ 53							.3	.5	.1																							13	13		
52/ 49							.2	.4	.4																							15	15		
50/ 47					.1	1.0	.8	1.0	.1																							27	27		
48/ 45					.4	.6	.4	.3																								17	17		
47/ 43					1.8	1.5	.6	.1																								39	39	12	
46/ 41				.3	1.2	1.4	.6	.1																								34	34	17	
45/ 39				.6	2.4	1.1	.4	.1																								43	43	29	
44/ 37			.5	.6	3.7	1.6	.1																									55	55	47	
43/ 35			.2	.9	3.4	.6	.1																									49	49	45	4
42/ 33			.2	1.2	3.0	.4																										45	45	59	15
41/ 31			.8	3.3	2.5	1.7																										70	71	41	37
40/ 29			.8	2.8	1.7	.3																										52	52	52	32
39/ 27		.2	1.1	3.0	.9																											48	49	84	33
38/ 25		.4	2.6	2.3	.6																											55	55	67	47
37/ 23		.4	2.3	1.7																												41	41	78	47
36/ 21		.2	2.3	1.0	.2																											34	34	56	47
35/ 19		.4	3.3	.8	.1																											47	47	43	97
34/ 17		.5	2.4	.2																												29	29	49	83
33/ 15		.6	1.6																													21	21	37	87
32/ 13		.1	1.7																													17	17	10	71
31/ 11		.2	1.3																													14	14	16	51
30/ 9			1.7	.1																												10	10	17	35
29/ 7		.5	1.1																													15	15	15	57
28/ 5		.4	.3																													7	7	11	15
27/ 3		.3	1.3																													15	15	11	22
26/ 1		.8	1.3																													19	19	25	13
25/ -1		.6	.4																													10	10	10	11
24/ -3		1.3	1.1																													22	22	19	17
23/ -5		1.2	.3																													14	14	18	11
22/ -7		.6	.3																													9	9	9	9
21/ -9		.6																														6	6	9	15
20/ -11		.6																														6	6	6	16
Element (X)	Σ X'	Σ X	X	C _n	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																								
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

7. 7754 PALMSTROM AFB MT 73-87 YEARS DFC
STATION STATION NAME MONTH
PAGE 1 7170-2700
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																	
10/-17																																						
11/-15	.3																																					
12/-17	.3																																					
13/-16	.6																																					
14/-11	.7																																					
15/-23	.1																																					
16/-25	.1																																					
17/-31	.1																																					
18/-33	.1																																					
19/-35																																						
20/-37	.1																																					
21/-39																																						
TOTAL	17.3	28.5	18.8	21.4	10.7	4.3	3.4	.																														

Element (X)	ΣX^2	ΣX	\bar{X}	σ_n	No. Obs.	Mean No. of Hours with Temperature					Total	
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 72 F$	$\leq 80 F$	$\leq 92 F$	
Rel. Hum.	3731944	57184	61.5	15.241	930							93
Dry Bulb	870965	24307	26.1	15.927	930		57.0					93
Wet Bulb	628685	20671	22.2	13.497	930	5.9	72.6					93
Dew Point	334972	12794	13.8	13.798	930	13.0	91.1					93

USAFETAC FORM 0-26-5 (OL A) JAN 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

72775E MALMSTROM AFB MT 73-87 YEARS DEC
STATION STATION NAME MONTH
PAGE 1 ALL
HOURS (L. S. Y.)

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														
61									.1	.1								0	0																
59								.1	.2	.2								16	15																
57						.1	.2	.1	.1	.2								40	43																
55						.2	.3	.2	.1	.2								72	72																
53					.1	.4	.5	.4	.1	.2								119	119																
51				.2	.6	.6	.4	.5	.1	.2								130	130																
49				.2	.6	.9	.5	.2	.2	.2								177	177	1															
47				.3	.7	.7	.8	.2	.2	.2								209	209	18															
45			.1	.5	1.1	.8	.9	.2	.2	.2								254	254	57															
43		.2	.2	.9	1.3	1.3	.3	.2	.2	.2								298	288	11															
41		.1	.5	1.4	2.0	.9	.1	.2	.2	.2								367	367	276	1														
39		.1	.7	1.8	1.2	.5	.1	.2	.2	.2								381	381	272	6														
37		.3	.9	2.1	1.8	.4		.2	.2	.2								403	403	377	26														
35	.2	.3	1.1	2.8	1.3	.1		.2	.2	.2								419	419	446	75														
33	.3	.3	1.3	2.7	.2	.2		.2	.2	.2								362	382	590	110														
31	.1	.8	2.2	2.4	.7	.2		.2	.2	.2								532	532	407	258														
29	.1	1.1	2.8	1.3	.1			.2	.2	.2								403	403	544	267														
27	.2	1.7	2.2	.6	.1			.2	.2	.2								351	351	725	297														
25	.3	1.5	2.0	.3				.2	.2	.2								378	378	539	414														
23	.3	1.6	1.7	.1				.2	.2	.2								217	217	45	377														
21	.6	2.0	1.1	.1				.2	.2	.2								290	290	377	654														
19	.6	2.8	.6	.0				.2	.2	.2								297	297	271	801														
17	.3	1.9	.2					.2	.2	.2								179	179	281	619														
15	.3	2.0	.2					.2	.2	.2								184	184	222	670														
13	.3	1.6	.2					.2	.2	.2								145	145	147	471														
11	.3	1.7	.2					.2	.2	.2								149	148	149	464														
9	.3	1.4	.3					.2	.2	.2								126	126	192	335														
7	.5	1.1	.2					.2	.2	.2								124	124	134	302														
5	.5	.5						.2	.2	.2								71	71	178	137														
3	.4	.6						.2	.2	.2								70	70	70	169														
1	.4	1.5						.2	.2	.2								142	142	192	169														
-1	.6	.6						.2	.2	.2								93	93	98	73														
-3	.7	.6						.2	.2	.2								91	91	179	67														
-5	.7	.5						.2	.2	.2								83	83	75	73														
Element (X)	ΣX'	ΣX	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total																							
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/PAC

PSYCHROMETRIC SUMMARY

707755 MALMSTRON AFB MT 73-67 DFC
 STATION STATION NAME YEARS MONTH ALL
 PAGE 1 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															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														
-6/-7	.6	.4																76	75	79	65														
-9/-9	.3	.0																61	61	93	64														
-11/-11	.7																	65	55	57	67														
-13/-13	.1																	9	9	9	33														
-15/-15	.3																	25	25	25	59														
-17/-17	.3																	22	22	22	63														
-19/-19	.4																	23	23	23	100														
-21/-21	.2																	13	13	13	45														
-23/-23	.2																	15	15	15	21														
-25/-25	.2																	14	14	14	28														
-27/-27	.0																	3	3	3	21														
-29/-29																					20														
-31/-31	.7																	5	5	5	0														
-33/-33	.7																	1	1	1	22														
-35/-35																					0														
-37/-37	.7																	1	1	1	0														
-39/-39																					1														
-41/-41																					1														
TOTAL	11.8	26.9	17.8	17.4	12.6	7.1	4.1	1.0	.6	.4	.0							7440	7440	7440	744														

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	28698076	445258	59.8	16.604	744							744
Dry Bulb	7797879	207496	27.9	16.442	744	50.7	417.4					744
Wet Bulb	4488317	174749	23.5	13.634	744	64.5	541.4					744
Dew Point	2834823	178027	14.5	13.47	744	88.6	721.6					744

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

PSYCHROMETRIC SUMMARY

70755 MALMSTROM AFB MT 73-87 ALL 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																
80/103																																0			4		
82/101																																		1		3	
87/99																																		17		13	
88/97																																		12		12	
88/95																																		54		54	
89/93																																		97		97	
90/91																																		181		181	
92/89																																		310		310	
98/87																																		422		422	
96/85																																		565		565	
94/83																																		568		568	
92/81																																		786		786	
92/79																																		1079		1079	
92/77																																		1177		1177	
92/75																																		1314		1314	5
94/73																																		1425		1425	21
92/71																																		1580		1580	30
92/69																																		1853		1853	67
98/67																																		1972		1972	162
96/65																																		2192		2192	423
94/63																																		2448		2448	781
92/61																																		2655		2655	1661
95/59																																		3081		3083	2465
98/57																																		3238		3238	2871
96/55																																		3422		3423	3447
94/53																																		3240		3242	3985
92/51																																		3092		3092	4236
90/49																																		3312		3312	3993
88/47																																		3365		3366	4176
86/45																																		3361		3361	4983
84/43																																		3175		3175	4024
82/41																																		3191		3191	4122
80/39																																		3504		3506	4189
88/37																																		3166		3166	4192
Element (X)	Σx'	Σx				X	σ _x	No. Obs.					Mean No. of Hours with Temperature																								
Rel. Num.								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																							
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

USAFETAC FORM AIR 44 0-26-5 (OL A) REVISÉ WITHOUT NOTIFICATION OF THIS FORM AIR OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/4AC

PSYCHROMETRIC SUMMARY

727755 MALMSTROM AFB MT 73-63 ALL MONTH ALL HOURS (L. S. T.)
STATION STATION NAME YEARS PAGE 1

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
76/ 35	.1	.7	1.1	1.2	.7	.7												3229	3229	4486	4700
74/ 33	.1	.9	1.1	1.1	.3	.0												3752	3753	4409	3951
72/ 31	.2	1.2	1.5	1.7	.2	.0												3396	3396	422	6124
70/ 29	.2	.7	1.1	.5	.0													2225	2225	3851	4487
68/ 27	.1	.8	1.0	.7	.0													1842	1842	2618	4600
66/ 25	.1	.8	.8	.1														1561	1561	2845	4609
64/ 23	.1	.6	.4	.0														1023	1023	2198	2827
62/ 21	.2	.9	.4	.0														1310	1310	1644	4189
60/ 19	.2	1.0	.3	.0														1402	1402	1329	4755
58/ 17	.1	.7	.1															850	850	1189	3465
56/ 15	.1	.6	.2	.0														700	791	969	3183
54/ 13	.1	.6	.1															722	724	697	2444
52/ 11	.1	.6	.1															675	675	777	2001
50/ 9	.1	.6	.1															665	665	787	1492
48/ 7	.1	.5	.1															616	616	652	1195
46/ 5	.1	.3	.1															362	362	589	647
44/ 3	.1	.5																532	532	403	675
42/ 1	.1	.7																737	737	563	727
40/ -1	.3	.3																514	515	666	423
38/ -3	.1	.4																505	505	570	511
36/ -5	.2	.2																308	308	364	481
34/ -7	.2	.2																317	317	354	423
32/ -9	.3	.3																287	287	406	421
30/ -11	.2	.3																227	227	252	418
28/ -13	.1																	114	114	122	331
26/ -15	.1																	119	119	119	406
24/ -17	.1																	80	80	80	325
22/ -19	.1																	98	98	98	455
20/ -21	.1																	44	44	44	269
18/ -23	.7																	38	38	38	180
16/ -25	.0																	23	23	23	165
14/ -27	.1																	7	7	7	102
12/ -29	.3																	1	1	1	86
10/ -31	.0																	3	3	3	23
Element (K)	Σg'	Σg	I	°a	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F										
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

707755 MALMSTROM AFB MT 73-67 ALL
 STATION STATION NAME YEARS MONTH

PAGE 7 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																
77-77																																					
76-75																																					
75-75																																					
74-75																																					
73-75																																					
72-75																																					
71-75																																					
70-75																																					
69-75																																					
68-75																																					
TOTAL	4.4	17.2	15.4	14.7	11.3	9.4	7.5	5.8	4.4	3.1	2.5	1.7	1.3	.9	.5	.4	.2																				
																							87637	87625	87625												

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	295028102	4787.62	54.619	9.554	87625							
Dry Bulb	218286321	3974131	45.320	9.42	87637	277.9	2147.1	1341.4	800.8	356.4	18.3	87625
Wet Bulb	145730339	3284858	37.516	9.56	87625	314.4	2954.6	27.5	1.6			87625
Dew Point	89579251	2434459	27.815	9.25	87625	511.3	35251.5	3.3				87625

USAFETAC FORM 0-26-5 (O.L.A.) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION	STATION NAME	YEARS												ANNUAL
HRS. EST.		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
00-02	MEAN	18.3	24.9	29.3	38.0	46.1	53.8	59.8	58.9	50.6	42.4	31.6	25.9	40.0
	S.D.	17.515	15.538	12.069	10.155	7.677	6.545	5.765	6.739	8.578	9.285	13.942	15.870	17.713
	TOTAL OBS	930	846	930	900	930	859	930	930	900	930	900	930	10959
03-05	MEAN	17.9	24.2	28.1	35.9	44.7	51.7	56.8	55.9	48.1	40.9	31.0	25.4	38.4
	S.D.	17.619	15.738	11.854	9.490	7.228	6.214	5.582	6.332	8.476	9.476	14.071	16.329	17.041
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10959
06-08	MEAN	17.8	23.8	28.6	38.2	47.8	57.0	62.2	59.1	49.6	41.1	30.9	25.3	40.2
	S.D.	17.383	15.902	12.128	10.608	7.986	7.125	6.277	7.033	9.189	9.841	14.111	16.293	18.600
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10959
09-11	MEAN	20.6	28.2	35.3	46.9	55.4	65.2	72.1	69.4	60.6	50.5	36.4	28.5	47.9
	S.D.	17.865	17.110	13.832	12.878	9.852	8.718	7.374	8.590	11.462	11.624	14.888	16.551	21.219
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10959
12-14	MEAN	25.3	32.8	40.3	52.0	60.1	70.1	78.0	75.9	67.3	56.5	41.2	32.9	52.4
	S.D.	18.398	17.486	14.329	13.858	11.079	9.643	8.135	9.782	12.600	12.260	15.437	16.750	22.050
	TOTAL OBS	930	846	930	900	929	900	930	930	900	930	899	900	10954
15-17	MEAN	24.7	33.3	41.0	53.3	60.9	71.1	79.6	77.7	68.8	56.3	39.5	31.4	53.2
	S.D.	18.166	17.115	14.114	14.042	11.247	9.759	8.789	10.238	12.817	12.024	15.163	16.320	22.696
	TOTAL OBS	930	846	930	900	930	859	930	930	900	930	899	900	10954
18-20	MEAN	20.7	28.4	35.5	48.3	56.9	66.8	74.6	72.1	61.3	48.5	33.9	27.7	48.1
	S.D.	17.147	15.678	12.588	12.810	10.258	9.134	8.401	9.691	11.537	10.058	13.952	15.826	21.771
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	897	930	10953
21-23	MEAN	19.6	25.9	31.1	41.6	49.5	58.5	65.3	63.2	53.7	44.2	32.0	26.1	42.6
	S.D.	17.324	15.410	11.749	10.876	8.137	7.343	6.514	7.467	9.155	9.362	13.963	15.927	18.954
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	897	930	10953
ALL HOURS	MEAN	20.6	27.7	33.7	44.3	52.6	61.8	68.5	66.5	57.5	47.5	34.6	27.9	45.3
	S.D.	17.887	16.619	13.737	13.508	11.119	10.770	10.844	11.448	13.048	12.143	14.929	16.442	20.842
	TOTAL OBS	7440	6768	7440	7200	7439	7198	7440	7440	7200	7440	7192	7440	87637

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIP WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION	STATION NAME	YEARS												
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	15.4	21.4	25.8	32.8	40.9	47.6	52.0	50.7	43.4	36.6	26.9	22.1	34.7
	S D	15.468	13.505	10.417	7.759	5.967	5.372	4.777	4.797	5.787	6.536	11.219	13.411	15.192
	TOTAL OBS	930	846	930	900	929	899	930	930	900	930	900	930	10954
03-05	MEAN	15.1	20.8	24.9	31.5	39.4	46.2	50.4	49.1	42.0	35.6	26.5	21.7	33.7
	S D	15.609	13.781	11.282	7.510	5.845	5.149	4.838	4.865	5.925	6.667	11.298	13.850	14.913
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	15.1	20.5	25.2	33.2	42.0	49.7	53.7	51.2	43.0	35.8	26.4	21.6	34.8
	S D	15.469	14.224	10.476	8.142	5.957	5.075	4.559	4.787	6.136	6.872	11.293	13.749	15.856
	TOTAL OBS	930	846	930	900	930	900	929	930	900	930	900	930	10955
09-11	MEAN	17.3	23.6	29.6	38.0	45.8	53.4	57.9	56.0	48.9	41.3	30.1	24.7	38.9
	S D	15.493	14.331	11.661	8.517	6.166	5.417	4.493	4.551	6.266	6.945	11.154	13.695	16.426
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	899	930	10955
12-14	MEAN	20.6	26.7	32.5	40.4	47.7	55.0	59.7	57.9	51.4	44.1	32.9	27.7	41.4
	S D	15.236	13.838	11.199	8.436	6.275	5.497	4.489	4.611	6.391	6.959	11.039	13.310	15.929
	TOTAL OBS	930	846	929	899	929	900	930	930	898	930	898	930	10949
15-17	MEAN	20.2	27.1	32.9	41.0	48.0	55.2	59.8	58.0	51.6	44.0	31.9	25.9	41.4
	S D	15.119	13.519	9.983	8.357	6.189	5.476	4.481	4.453	6.361	6.791	11.098	13.197	16.041
	TOTAL OBS	930	846	929	900	930	899	930	930	900	930	898	930	10952
18-20	MEAN	17.4	24.1	29.9	38.7	46.4	54.0	58.4	56.0	48.3	40.0	28.5	23.4	38.8
	S D	14.994	13.132	9.865	8.183	6.132	5.531	4.651	4.499	6.302	6.399	11.034	13.303	16.360
	TOTAL OBS	929	846	930	900	930	900	930	930	900	930	897	930	10952
21-23	MEAN	16.5	22.3	27.2	35.1	42.8	50.1	54.6	52.6	44.4	37.7	27.2	22.2	36.2
	S D	15.226	13.348	10.001	7.878	5.863	5.333	4.733	4.618	5.835	6.427	11.188	13.497	15.629
	TOTAL OBS	930	846	930	899	930	900	930	930	900	930	897	930	10952
ALL HOURS	MEAN	17.2	23.3	28.5	36.4	44.1	51.4	55.8	53.8	46.7	39.4	28.8	23.5	37.5
	S D	15.456	13.886	10.656	8.791	6.763	6.257	5.731	5.670	7.103	7.445	11.412	13.639	16.056
	TOTAL OBS	7439	6768	7438	7198	7438	7198	7439	7440	7198	7440	7189	7440	87625

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/HAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION	STATION NAME	YEARS												
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	6.7	13.3	18.7	25.2	34.6	41.6	45.2	43.2	35.4	29.8	18.4	13.9	27.1
	S D	16.328	14.765	10.931	7.464	7.271	6.877	6.951	6.385	6.502	6.668	10.736	13.042	15.947
	TOTAL OBS	930	846	930	900	929	899	930	930	900	930	900	930	10954
03-05	MEAN	6.4	12.8	17.9	24.7	33.8	40.7	44.6	42.7	35.1	28.3	18.2	13.5	26.6
	S D	16.514	14.467	10.843	7.320	7.020	6.523	6.585	6.172	6.330	6.680	10.707	13.561	15.909
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	6.6	12.5	18.2	25.9	35.4	42.9	46.7	44.3	35.9	28.4	17.8	13.5	27.4
	S D	16.424	14.821	10.763	7.603	6.857	6.362	6.283	5.925	6.109	6.778	10.798	13.466	16.504
	TOTAL OBS	930	846	930	900	930	900	929	930	900	930	900	930	10955
09-11	MEAN	8.2	14.3	19.9	26.6	35.6	43.2	47.2	45.3	37.6	30.5	19.8	15.0	28.7
	S D	16.064	14.355	10.216	7.738	7.217	7.007	6.892	5.911	5.991	6.462	10.215	13.053	16.064
	TOTAL OBS	930	846	930	900	930	900	930	930	900	930	899	930	10955
12-14	MEAN	10.0	15.5	20.2	25.9	35.0	42.5	46.1	44.1	36.6	30.1	20.3	16.3	28.6
	S D	15.050	13.359	9.645	7.743	7.619	7.541	7.602	6.442	6.535	6.722	9.771	12.334	15.197
	TOTAL OBS	930	846	929	899	929	900	930	930	898	930	898	930	10949
15-17	MEAN	9.5	15.8	20.3	25.6	34.6	42.0	45.0	42.6	35.5	29.8	19.9	15.7	28.1
	S D	15.147	13.011	9.608	7.920	7.915	7.881	8.001	6.574	7.048	7.010	10.181	12.521	15.051
	TOTAL OBS	930	846	929	900	930	899	930	930	900	930	898	930	10952
18-20	MEAN	8.2	15.0	20.4	26.0	35.2	43.1	46.0	42.9	35.5	29.5	18.9	14.5	28.0
	S D	15.642	13.367	10.018	8.079	8.043	8.164	8.299	6.836	7.022	6.870	10.670	13.020	15.776
	TOTAL OBS	929	846	930	900	930	900	930	930	900	930	897	930	10952
21-23	MEAN	7.6	14.3	19.6	26.0	35.1	42.7	46.0	43.3	35.4	29.0	18.4	13.8	27.7
	S D	16.109	13.780	10.580	7.738	7.598	7.365	7.349	6.621	6.796	6.816	10.688	13.078	15.993
	TOTAL OBS	930	846	930	899	930	900	930	930	900	930	897	930	10952
ALL HOURS	MEAN	7.9	14.2	19.4	25.7	34.9	42.3	45.9	43.5	35.9	29.3	19.0	14.5	27.6
	S D	15.961	13.956	10.374	7.719	7.469	7.274	7.318	6.425	6.596	6.792	10.507	13.047	15.825
	TOTAL OBS	7439	6768	7438	7198	7438	7198	7439	7440	7198	7440	7189	7440	87625

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIF WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-P 3

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	99.6	99.1	95.6	81.0	54.5	27.9	10.2	3.1	62.8	845
	03-05	100.0	99.6	98.7	94.9	82.3	57.9	28.5	9.8	2.6	63.1	846
	06-08	100.0	99.6	98.2	95.2	83.7	58.9	29.3	10.4	1.8	63.4	846
	09-11	100.0	99.4	96.5	97.1	67.3	44.8	23.8	9.3	1.4	59.4	846
	12-14	100.0	97.8	89.5	72.0	52.2	33.3	16.1	5.9	1.2	52.4	846
	15-17	100.0	98.0	88.8	72.3	50.1	32.4	16.5	5.3	.6	52.0	846
	18-20	100.0	99.8	97.0	90.0	70.7	44.0	23.3	8.3	1.7	59.0	846
	21-23	100.0	100.0	99.3	95.3	82.0	55.0	26.8	10.5	2.4	62.8	846
TOTALS		100.0	99.2	95.9	87.8	71.2	47.6	24.2	8.8	1.9	59.2	6788

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727755
STATION

MALMSTROM AFB MT
STATION NAME

74-83
PERIOD

JUL
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%		
JUL	00-02	100.0	99.9	99.7	99.5	72.5	47.1	25.3	10.1	2.7	67.2	937
	03-05	100.0	100.0	99.8	95.7	82.6	63.7	35.6	14.2	3.2	65.1	930
	06-08	100.0	100.0	99.6	98.4	68.1	43.5	23.8	8.2	1.8	59.0	929
	09-11	100.0	98.0	80.0	51.9	27.0	12.6	5.8	1.6	.2	43.4	930
	12-14	100.0	86.7	55.2	28.4	13.5	7.3	2.9	.5	.2	35.0	930
	15-17	99.9	78.4	42.5	24.4	12.7	7.0	2.4	.3	.1	32.5	930
	18-20	100.0	88.3	65.1	41.3	24.6	14.1	6.1	1.7	.2	39.7	937
	21-23	100.0	99.4	91.5	75.1	49.8	31.6	14.5	4.8	.6	52.7	937
TOTALS		100.0	93.8	78.9	61.8	43.9	28.4	14.6	5.2	1.1	48.5	7439

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

74-83

PERIOD

OCT
 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%		
OCT	00-02	100.0	99.8	96.3	95.6	68.6	57.0	33.1	18.2	4.8	61.5	930
	03-05	100.0	99.9	96.9	88.0	74.6	57.7	37.7	20.5	6.1	63.7	930
	06-08	100.0	99.7	95.9	86.6	73.4	57.6	39.6	22.8	6.9	63.7	930
	09-11	100.0	96.7	82.4	63.4	47.0	29.8	19.8	11.6	2.9	50.7	930
	12-14	100.0	89.5	63.8	39.2	24.1	15.9	11.6	6.6	1.8	40.8	930
	15-17	100.0	98.9	64.0	39.8	21.8	16.1	12.2	5.0	1.1	40.6	930
	18-20	100.0	97.5	87.8	67.7	45.3	28.1	18.0	11.1	3.1	51.4	930
	21-23	100.0	99.2	95.1	91.7	62.7	44.3	25.4	13.9	4.5	58.2	930
TOTALS		100.0	96.4	85.3	68.9	51.7	37.4	24.6	13.8	3.8	53.8	7440

USAFETAC FORM 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIP WEATHER SERVICE/MAC

RELATIVE HUMIDITY

727755
 STATION

MALMSTROM AFB MT
 STATION NAME

73-93

PERIOD

ALL
 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	ALL	100.0	99.9	97.7	95.9	73.1	46.5	22.3	7.1	2.0	59.5	7439
FEB		100.0	99.2	95.9	87.8	71.2	47.6	24.0	8.9	1.9	59.2	6768
MAR		100.0	98.8	91.9	81.6	67.3	48.7	30.4	15.0	4.7	59.4	7438
APR		100.0	95.3	82.4	68.1	51.0	37.4	22.7	12.4	4.6	53.1	7198
MAY		100.0	97.5	85.1	70.8	55.6	41.8	28.6	15.1	5.7	55.7	7438
JUN		100.0	97.0	86.1	69.3	52.1	35.3	21.2	9.1	2.1	57.9	7198
JUL		100.0	93.8	78.9	61.8	43.0	28.4	14.6	5.2	1.1	48.5	7439
AUG		100.0	93.5	77.6	59.9	41.8	26.8	15.5	5.8	.5	47.8	7440
SEP		99.9	93.2	77.2	59.9	44.4	31.0	20.0	10.8	3.2	49.6	7198
OCT		100.0	96.4	85.3	68.9	51.7	37.4	24.6	13.8	3.8	53.8	7440
NOV		100.0	98.7	91.2	77.2	60.9	42.5	24.3	11.8	3.5	56.5	7189
DEC		100.0	99.7	96.3	86.6	69.4	48.3	27.6	11.7	3.3	59.9	7440
TOTALS		100.0	96.9	87.1	73.5	56.9	39.3	23.0	10.6	3.0	54.7	87625

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

STATION	STATION NAME	YEARS												
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
12	MEAN	26.310	26.290	26.229	26.280	26.278	26.306	26.351	26.364	26.375	26.367	26.335	26.287	26.314
	S D	.218	.216	.190	.174	.151	.124	.116	.118	.157	.175	.207	.212	.179
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
15	MEAN	26.317	26.290	26.224	26.292	26.283	26.313	26.363	26.370	26.381	26.366	26.333	26.284	26.316
	S D	.227	.217	.189	.176	.152	.127	.117	.122	.159	.177	.209	.215	.181
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
18	MEAN	26.315	26.298	26.236	26.298	26.297	26.326	26.379	26.386	26.396	26.376	26.347	26.287	26.328
	S D	.218	.211	.190	.190	.155	.127	.119	.124	.162	.179	.212	.215	.184
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
11	MEAN	26.332	26.305	26.236	26.294	26.288	26.314	26.367	26.378	26.390	26.375	26.345	26.299	26.327
	S D	.219	.213	.194	.180	.157	.127	.118	.123	.161	.181	.216	.217	.184
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
14	MEAN	26.296	26.277	26.209	26.268	26.262	26.289	26.341	26.349	26.358	26.344	26.316	26.268	26.298
	S D	.217	.211	.194	.177	.157	.126	.117	.124	.158	.179	.216	.214	.182
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
17	MEAN	26.305	26.273	26.203	26.254	26.251	26.271	26.320	26.326	26.344	26.340	26.324	26.287	26.292
	S D	.212	.207	.194	.175	.153	.124	.116	.123	.154	.175	.212	.216	.179
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
20	MEAN	26.311	26.284	26.222	26.269	26.260	26.281	26.330	26.340	26.363	26.355	26.333	26.297	26.304
	S D	.212	.207	.192	.170	.151	.122	.112	.120	.151	.174	.211	.218	.177
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
23	MEAN	26.311	26.286	26.229	26.295	26.280	26.304	26.356	26.360	26.376	26.362	26.336	26.301	26.316
	S D	.214	.205	.193	.170	.150	.124	.112	.119	.159	.174	.212	.210	.176
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
ALL HOURS	MEAN	26.311	26.288	26.223	26.279	26.275	26.312	26.351	26.359	26.373	26.361	26.333	26.289	26.312
	S D	.216	.208	.192	.176	.154	.126	.117	.123	.158	.177	.212	.212	.181
	TOTAL OBS	2480	2256	2480	2400	2480	2400	2480	2480	2400	2480	2397	2480	29213

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

727755 MALMSTROM AFB MT

73-83

HRS - LST		YEARS												ANNUAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
07	MEAN	1018.51	1016.71	1013.31	1013.91	1012.61	1012.61	1013.41	1014.21	1015.61	1016.51	1017.21	1016.4	1015.1
	S D	9.749	9.316	8.365	7.544	6.232	5.327	4.841	4.876	6.711	7.512	9.213	9.604	7.862
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
05	MEAN	1018.71	1016.91	1013.31	1014.11	1013.01	1012.91	1014.11	1014.51	1016.01	1016.81	1017.51	1016.6	1015.4
	S D	9.845	9.414	8.316	7.534	6.251	5.324	4.794	4.915	6.805	7.498	9.300	9.759	7.897
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
08	MEAN	1019.31	1017.61	1014.11	1014.91	1013.41	1013.31	1014.61	1015.21	1016.91	1017.61	1018.11	1016.9	1016.0
	S D	9.771	9.454	8.279	7.561	6.236	5.197	4.839	4.947	6.848	7.567	9.396	9.758	7.912
	TOTAL OBS	310	282	310	300	309	300	310	310	300	310	300	310	3651
11	MEAN	1019.61	1017.51	1013.71	1014.51	1013.01	1012.91	1014.11	1014.81	1016.31	1017.11	1017.81	1017.1	1015.7
	S D	9.738	9.526	8.454	7.544	6.290	5.191	4.856	4.951	6.773	7.581	9.499	9.811	7.985
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
14	MEAN	1018.01	1016.21	1012.51	1013.41	1012.01	1011.81	1013.11	1013.61	1015.01	1015.71	1016.51	1015.7	1014.4
	S D	9.581	9.472	8.495	7.460	6.388	5.210	4.758	5.028	6.648	7.508	9.515	9.675	7.896
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
17	MEAN	1018.61	1016.21	1012.41	1012.91	1011.71	1011.31	1012.41	1012.81	1014.61	1015.81	1017.11	1016.7	1014.4
	S D	9.408	9.266	8.483	7.372	6.268	5.132	4.747	4.981	6.578	7.382	9.416	9.518	7.922
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
20	MEAN	1019.11	1016.91	1013.51	1013.61	1012.71	1011.51	1012.61	1013.41	1015.41	1016.81	1017.81	1017.3	1015.0
	S D	9.473	9.358	8.350	7.303	6.231	5.119	4.617	4.898	6.531	7.373	9.420	9.585	7.930
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
23	MEAN	1018.81	1016.71	1013.51	1014.11	1012.71	1012.51	1013.71	1014.11	1015.81	1016.61	1017.51	1017.2	1015.3
	S D	9.529	9.357	8.479	7.333	6.254	5.213	4.683	4.907	6.663	7.404	9.408	9.672	7.860
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
ALL HOURS	MEAN	1018.81	1016.81	1013.31	1013.91	1012.51	1012.41	1013.51	1014.11	1015.71	1016.61	1017.51	1016.7	1015.1
	S D	9.635	9.386	8.408	7.469	6.287	5.251	4.816	4.986	6.721	7.491	9.395	9.672	7.924
	TOTAL OBS	2480	2256	2480	2400	2479	2400	2480	2480	2400	2480	2397	2480	29212

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

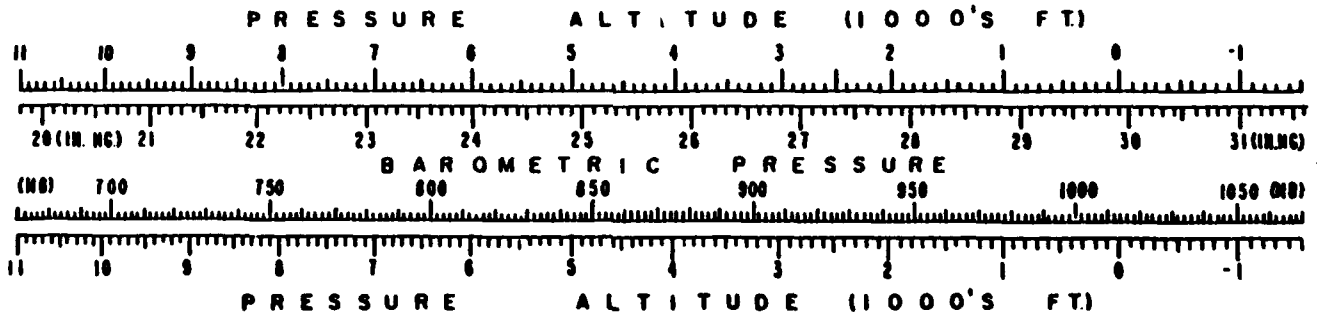
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations 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.



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