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REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

PHELPS-GOLLIES/ALPENA MI WBAN #726590
N 45 04 W 083 34 FLD ELEV 689 FT APN

PARTS A-F
POR FROM HOURLY OBS: JAN 73 - DEC 81

POR FROM DAILY OBS: JAN 73 - DEC 81

TIME CONVERSION GMT TO LST: -5 MAY 19 1982

FEDERAL BUILDING
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REPORT DOCUMENTATION PAGE

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1. REPORT NUMBER
USAFETAC/DS-82/031

2. GOVT ACCESSION NO.

3. RECIPIENT'S CATALOG NUMBER

4. TITLE (and Subtitle)
Revised Uniform Summary of Surface Weather Observations (RUSSWO)-
PHELPS-COLLINS/ALPENA, MICHIGAN

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
19 MAY 82

13. NUMBER OF PAGES
400

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)

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

18. SUPPLEMENTARY NOTES

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

*RUSSWO	Daily temperatures	Atmospheric pressure
Snowfall	Extreme snow depth	Extreme surface winds
Climatology	Sea-level pressure	Psychrometeric 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 PHELPS-COLLINS/ALPENA, MICHIGAN

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 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 (over)

DD FORM 1 JAN 73 1473

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

MICHIGAN PHELPS-COLLINS/ALPENA, MICHIGAN

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurance or cumulative percentage frequency of occuring tables.

CAUTION

The reader is advised to use the daily summary sections of this Revised Uniform Summary of Surface Weather Observations (RUSSWO) with caution. Because of suspect data and broken periods of observations the daily summary was limited to a period of record (POR) from 1973-1981. Since this is much shorter than the usual POR the extremes are too conservative and even the means and percentage of days with various atmospheric phenomenon for some elements may be different from those of a thirty year summary.

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.

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REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

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

DAILY OBSERVATIONS

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

DESCRIPTION OF SUMMARIES

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

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

PART A WEATHER CONDITIONS
ATMOSPHERIC PHENOMENA
PART B PRECIPITATION
SNOWFALL
SNOW DEPTH
PART C SURFACE WINDS
PART D CEILING VERSUS VISIBILITY
SKYCOVER
PART E DAILY MAX, MIN, & MEAN TEMP
EXTREME MAX & MIN TEMP
PSYCHROMETRIC-DRY VS WET BULB
MEAN & STD DEV - (DRY BULB, WET BULB, & DEW POINT)
RELATIVE HUMIDITY
PART F STATION PRESSURE
SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

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

MISSING HOUR GROUPS

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

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

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT.)	CALL SIGN	WMO NUMBER
726390	ALPENA/PHELPS COLLINS MI	N 45 04	W 083 34	689	APN	72639

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. BARO.	
	Alpena MI/Phelps-Collins Field	WBAS	8 Aug 59	* May 82	N 45 04	W 083 34	689	691.95	24
	* Dec 75 Last A-4 Form rec at NCC.								

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Sep 59	Located on the roof	F-104	F-420C	33	
2	Dec 68	Same	F-420C	Same	Same	
3	Jul 74	Ground	Same	Same	22	Latest copy Nov 1980

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CONTINUED ON REVERSE SIDE

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A

PART A WEATHER CONDITIONS

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

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

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

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

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

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

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

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

Hail - Occurrences of hail and small hail are included.

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

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

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

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

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

Continued on Reverse

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

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

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

14659 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		2.7	.4	42.8		45.7	6.2	1.1	2.8		9.5	818
	03-05		2.1	1.0	45.4		47.7	5.8	.7	3.6		9.7	813
	06-08		2.3	1.7	47.9		51.1	7.5	1.5	4.4		13.0	826
	09-11		2.4	2.1	42.8		46.5	10.4	2.4	3.8		16.2	820
	12-14		2.0	.4	38.1		40.3	7.5	2.8	4.8		14.7	817
	15-17		1.6	.5	28.2		30.3	6.0	2.8	3.2		11.6	816
	18-20		1.9	.4	34.5		36.7	8.0	2.2	1.6		11.6	821
	21-23		2.3	.4	40.9		43.1	6.1	1.7	1.7		9.1	821
TOTALS			2.2	.9	40.1		42.7	7.2	1.9	3.2		11.9	6552

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WEATHER CONDITIONS

39	PHILPS-COLLINS/ALPENA MI	73-81	FEB
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-03		1.7	1.1	32.1		34.5	8.9	1.3	1.2		10.7	745
	03-06		1.3	.3	37.2		38.6	8.8	1.3	2.5		12.3	748
	06-09		1.6	.9	41.4		43.6	9.7	2.4	1.1		12.5	754
	09-11		2.3	.7	39.2		42.2	11.8	5.5	2.4		18.4	752
	12-14		2.4	.4	33.3		35.6	8.4	4.3	5.2		17.6	750
	15-17		2.4	.3	29.4		31.8	8.4	3.8	3.9		15.5	742
	18-20		2.0	.4	24.4		26.4	8.7	2.0	1.7		12.2	743
	21-23		2.1	1.2	30.5		32.8	7.0	1.5	2.0		10.4	747
TOTALS			2.0	.7	33.4		35.7	9.0	2.8	2.5		13.7	5981

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WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
72390	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		7.2	1.6	19.0		27.3	13.8	3.4	1.1		17.7	820
	03-05	.2	6.1	1.1	23.6		30.3	15.5	1.9	1.3		18.4	821
	06-08		6.1	1.9	20.4		27.8	20.4	3.0	1.3		23.2	825
	09-11		6.1	1.6	16.5		23.4	16.4	5.7	2.1		23.0	819
	12-14		5.2	.7	14.8		20.1	11.7	6.1	1.6		18.9	820
	15-17	.1	6.1	.6	12.9		19.1	9.7	6.2	.9		16.6	821
	18-20	.1	6.6	1.0	13.7		20.6	11.4	4.5	.6		16.0	819
	21-23	.7	6.3	1.5	16.7		23.7	11.3	3.1	1.1		14.9	826
TOTALS		.1	6.2	1.3	17.2		24.0	13.8	4.2	1.3		18.6	6571

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WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	APR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02	1.0	10.4	.3	6.2	.1	16.6	14.2	.5	.5		15.2	787
	03-05	.5	8.5	.5	7.3		15.5	14.2	.4	.9		15.3	791
	06-08		8.4	.5	7.3		15.4	15.0	2.4	1.0		17.6	799
	09-11	.3	10.1		5.8		15.5	10.9	3.1	1.1		14.5	795
	12-14	.5	9.5		4.7		13.9	9.7	2.9	.4		12.8	792
	15-17	1.0	10.2	.1	5.3		15.3	11.4	2.1	.1		13.6	795
	18-20	1.1	11.9	.1	5.4		17.0	12.3	2.9			14.8	795
	21-23	.4	12.9	.4	6.0		18.5	12.9	1.6	.4		14.7	796
TOTALS		.6	10.2	.2	6.0	.0	16.0	12.6	2.0	.6		14.8	6350

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
76390	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.1	7.4		.7		8.1	12.8	5.4			17.2	814
	03-05		9.9		.4		10.3	15.4	5.3			18.7	816
	06-08	.1	10.9		.6		11.6	19.3	8.2			24.0	822
	09-11	.1	10.8		.6		11.3	9.1	9.4			17.9	822
	12-14	.6	8.2		.6		8.7	6.0	9.4			14.8	820
	15-17	2.7	9.3		.7		10.0	6.1	8.6			13.9	821
	18-20	1.6	10.0		.6		10.5	9.2	7.3			15.6	826
	21-23	.7	8.9		.7		9.4	12.0	6.2			17.2	819
TOTALS		.7	9.4		.6		10.0	11.2	7.5			17.4	6560

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WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JUN

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	1.3	7.3				7.3	12.4	9.0			18.7	791
	03-05	1.4	7.5				7.5	16.9	9.4			22.4	795
	06-08	.4	8.6				8.6	18.1	12.2			27.1	792
	09-11	.4	6.9				6.9	7.1	9.8			16.6	794
	12-14	1.1	7.8				7.8	4.0	7.6			11.5	794
	15-17	2.1	8.6				8.6	4.7	8.1			12.1	792
	18-20	1.9	7.9				7.9	5.2	10.1			14.6	796
	21-23	1.0	8.3				8.3	8.8	10.5			17.9	793
TOTALS		1.2	7.9				7.9	9.7	9.6			17.6	6347

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GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

72[illegible]390	PHELPS-COLLINS/ALPENA MI	73-81	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	2.2	4.7				4.7	16.5	14.2			24.1	810
	03-05	2.7	6.7				6.7	24.0	13.0			29.1	822
	06-08	2.0	7.7				7.7	23.5	16.2			33.1	810
	09-11	1.0	5.9				5.9	5.3	15.5			20.1	815
	12-14	1.9	5.5				5.5	4.1	13.8			17.1	821
	15-17	2.1	6.3				6.3	4.1	13.9			17.3	822
	18-20	2.6	4.2				4.2	5.2	15.6			19.2	813
	21-23	2.3	4.9				4.9	12.5	15.2			22.1	822
TOTALS		2.1	5.7				5.7	11.9	14.7			22.8	6535

5201

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WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	AUG

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	1.1	8.0				8.0	19.8	10.6			26.2	814
	03-05	.6	5.9				5.9	25.9	9.3			30.5	799
	06-08	1.1	5.4				5.4	30.4	12.5			37.0	810
	09-11	1.0	6.6				6.6	11.1	16.7			25.3	813
	12-14	1.0	6.8				6.8	5.8	15.8			20.4	810
	15-17	2.1	6.1				6.1	7.0	16.0			21.0	815
	18-20	3.2	7.2				7.2	12.2	15.4			24.8	814
	21-23	1.8	7.8				7.8	16.7	15.3			28.4	812
TOTALS		1.5	6.7				6.7	16.1	14.0			26.7	6487

USAFETAC FORM JUL 84 0-10-8(GL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	SEP

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.3	9.9				9.9	15.1	5.0			17.0	784
	03-05	1.5	9.7				9.7	16.5	4.2			18.7	793
	06-08	.9	11.2				11.2	22.0	5.9			25.4	796
	09-11	.4	10.0				10.0	11.5	9.2			19.2	780
	12-14	.4	7.4				7.4	6.0	6.2			11.8	794
	15-17	1.3	9.5				9.5	7.5	6.1			12.4	788
	18-20	.5	10.2				10.2	10.5	6.1			14.4	791
	21-23	.6	10.1				10.1	11.3	4.3			14.0	795
TOTALS		.7	9.8				9.8	12.6	5.9			16.6	6321

5202

USAFETAC FORM JUN 64 0-10-3(EL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.4	9.9		4.2		13.9	14.6	[illegible]			17.5	808
	03-05	.5	9.4		3.1		12.4	16.5	4.3			19.5	806
	06-08		10.2		3.5		13.4	[illegible]	5.0			25.1	823
	09-11	.1	11.6		2.3		13.8	13.[illegible]	8.7			20.0	817
	12-14		11.4		1.2		12.6	5.7	7.2			12.9	814
	15-17		9.4		1.6		10.9	5.9	5.9			11.2	820
	18-20	.2	11.4		2.6		1[illegible].7	6.4	7.2			14.7	817
	21-23	.5	12.2		3.9		15.3	12.6	5.8			16.4	823
TOTALS		.2	10.7		2.8		13.2	12.5	6.1			17.2	6526

USAFETAC FORM JULY 84 0-10-3(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		9.4	.1	16.5		25.9	13.1	3.1	.1		15.8	784
	03-05		9.0		17.6		25.7	14.3	2.4			15.8	791
	06-08		9.2	.3	20.4		29.1	20.6	3.4			21.8	793
	09-11		9.2		20.0		29.0	19.6	5.2	.4		23.4	786
	12-14		10.2		17.9		27.6	12.0	4.9	.4		16.6	782
	15-17		9.3		15.7		24.7	12.9	4.3	.3		17.1	789
	18-20		9.0		16.9		25.8	14.0	3.7	.5		17.4	792
	21-23	.1	8.9	.1	16.7		25.5	13.7	2.5	.4		15.7	795
TOTALS		.0	9.3	.1	17.7		26.7	15.0	3.7	.3		18.0	6312

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

72639C	PHELPS-COLLINS/ALPENA MI	73-81	DEC
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		3.0	.4	31.1		34.3	9.7	1.4	1.2		12.1	808
	03-05		2.1	.4	31.9		34.4	10.2	1.9	.5		12.3	802
	06-08		4.1	1.0	40.9		45.5	13.4	1.9	1.1		16.2	822
	09-11		4.3	1.0	37.3		42.0	17.0	2.5	2.1		20.4	810
	12-14		3.4	.6	36.5		40.2	15.1	3.4	2.5		20.2	816
	15-17		2.8	.5	31.5		34.5	12.1	4.6	2.1		18.5	809
	18-20		3.9	1.0	31.9		36.3	11.5	4.2	1.2		16.3	816
	21-23		4.9	.7	36.5		40.8	10.9	3.3	1.3		15.2	817
TOTALS			3.6	.7	34.7		38.5	12.5	2.9	1.5		16.4	6500

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

76390	PHELPS-COLLINS/ALPENA MI	73-81	ALL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		2.2	.9	40.1		42.7	7.2	1.9	3.2		11.9	6552
FEB			2.0	.7	33.4		35.7	9.0	2.8	2.5		13.7	5981
MAR		.1	6.2	1.3	17.2		24.0	13.8	4.2	1.3		18.6	6571
APR		.6	10.2	.2	6.0	.0	16.0	12.6	2.0	.6		14.8	6350
MAY		.7	9.4		.6		10.0	11.2	7.5			17.4	6560
JUN		1.2	7.9				7.9	9.7	9.6			17.6	6347
JUL		2.1	5.7				5.7	11.9	14.7			22.8	6535
AUG		1.5	6.7				6.7	16.1	14.0			26.7	6487
SEP		.7	9.8				9.8	12.6	5.9			16.6	6321
OCT		.2	10.7		2.8		13.2	12.5	6.1			17.2	6526
NOV		.0	9.3	.1	17.7		26.7	15.0	3.7	.3		18.0	6312
DEC			3.6	.7	34.7		38.5	12.5	2.9	1.5		16.4	6500
TOTALS		.6	7.0	.3	12.7	.0	19.7	12.0	6.3	.8		17.6	77042

USAFETAC FORM JULY 84 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PART A ATMOSPHERIC PHENOMENA

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

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

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

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

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

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS
ATMOSPHERIC PHENOMENA

STATION	STATION NAME	YEARS	MONTH
7 C39	PHELPS-COLLINS/ALPENA MI	73-81	ALL

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		14.1	6.9	88.0		91.3	23.6	9.1	14.2		37.8	275
FEB			12.6	5.9	77.2		79.5	28.3	16.5	11.0		41.7	254
MAR		3.6	32.3	7.2	53.4	.4	72.0	41.2	17.9	6.5		47.3	279
APR		8.9	44.4	1.9	23.0	1.1	53.7	35.2	14.8	1.5		38.9	270
MAY		10.8	44.6		3.9	.7	45.9	41.6	22.6			46.6	279
JUN		17.4	55.2			.4	55.2	43.3	29.3		.4	50.7	270
JUL		22.9	44.1			.4	44.1	47.7	42.7			55.6	279
AUG		19.4	48.0			.4	48.0	52.0	41.9			58.8	279
SEP		11.1	53.0		.4	.7	53.0	45.6	22.2			48.5	270
OCT		4.7	55.2		17.9		62.0	42.3	21.9			47.3	279
NOV		.7	37.0	.7	52.6		73.3	42.2	15.2	1.1		46.3	270
DEC			21.9	9.0	79.9		87.5	36.2	12.2	10.4		45.9	279
TOTALS		8.3	38.5	2.6	33.0	.3	63.8	39.9	22.2	3.7	.0	47.1	3283

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

B

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

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

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

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

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

Continued on Reverse Side

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

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

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

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

Air Force Stations:		U. S. Navy and National Weather Service (USWB)	
Beginning thru 1945	at 0800LST	Beginning thru Jun 52	at 0[illegible]00GMT
Jan 46-May 57	at 1230GMT	Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT	Jun 57-present	at 1200GMT

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION (FROM DAILY OBSERVATIONS)

126590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	1[illegible].0	49.1	7.5	11.8	8.6	7.9	3.2	1.4	.4					40.9	279	1.68	3.51	.46
FEB	20.5	41.3	7.9	11.4	7.9	5.9	3.1	1.6	.4					38.2	254	1.50	2.24	.47
MAR	28.0	28.3	8.6	9.7	9.0	9.3	3.6	3.6						43.7	279	1.90	4.44	.64
APR	45.5	17.8	3.3	8.9	3.3	6.7	9.3	4.4						35.9	270	2.47	4.15	1.18
MAY	54.1	12.2	2.2	5.7	5.0	7.2	9.0	4.3	.4					33.7	279	2.71	4.83	1.14
JUN	44.8	20.0	4.4	6.7	6.3	8.1	4.4	3.3	1.9					35.2	270	2.47	3.34	1.15
JUL	55.9	12.5	2.2	6.1	3.6	8.6	4.3	2.5	3.9	.4				31.5	279	3.78	7.17	1.50
AUG	52.0	13.6	3.2	6.8	4.3	6.1	6.1	6.1	1.4	.4				34.4	279	3.45	5.76	2.03
SEP	41.0	14.4	2.6	11.1	7.8	7.4	3.7	4.4	1.5					38.5	270	2.63	6.09	.28
OCT	37.0	24.4	5.7	9.5	6.5	8.6	5.4	1.8	.7					38.0	279	1.95	4.03	.91
NOV	26.7	34.1	5.6	10.4	8.1	8.5	4.8	1.9						39.3	270	1.60	2.51	.79
DEC	12.5	38.0	9.7	16.5	7.2	10.8	3.2	2.2						49.5	279	1.64	2.28	.61
ANNUAL	36.3	25.5	5.2	9.5	6.5	7.9	5.0	3.1	.9	.1				38.2	3287	27.58		

USAFETAC FORM 0-15-5 OCT 79 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

726390 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
73	.25	.17	.72	.77	1.61	.42	2.38	2.61	1.13	1.20	.34	.61	2.61
74	.81	1.01	.14	.53	.79	.56	2.80	.84	.58	.45	.45	.29	2.80
75	.78	.44	.54	.68	.97	1.25	2.01	1.23	.81	.26	.58	.30	2.01
76	.34	.40	.86	.43	.70	1.36	.49	1.20	.52	.45	.53	.13	1.36
77	.35	.68	.63	.62	.91	.75	1.53	.75	1.66	.67	.42	.57	1.66
78	1.83	.26	.72	.40	.88	.60	1.32	.84	1.45	.57	.41	.60	1.83
79	.79	.37	.61	.82	.54	1.12	1.43	.68	.12	.60	.81	.61	1.43
80	.20	.15	.21	.86	.71	1.26	.90	1.73	.73	.18	.31	.64	1.73
81	.10	.69	.28	.95	.41	.64	.46	.44	.86	1.16	.64	.52	1.16
MEAN	.606	.463	.523	.673	.836	.884	1.480	1.147	.873	.616	.499	.474	1.843
S.D.	.535	.282	.253	.193	.341	.360	.808	.666	.477	.356	.159	.185	.553
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

726390 PHELPS-COLLINS/ALPENA MI 73-81
STATION STATION NAME YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
73	1.02	.60	1.82	2.31	4.83	2.31	5.16	5.67	2.97	4.03	1.70	2.17	34.59
74	3.04	1.38	.64	2.97	2.61	3.15	5.17	2.03	2.18	1.43	1.42	1.04	27.08
75	2.14	1.26	2.26	1.70	4.45	3.23	7.17	5.76	1.97	.91	2.51	.93	34.29
76	1.73	2.24	4.44	1.33	2.43	2.82	2.03	2.54	1.30	2.14	.79	.01	24.40
77	1.72	2.19	2.49	2.15	1.85	1.38	3.38	4.75	4.01	1.22	2.33	2.28	28.75
78	3.31	.60	1.07	1.18	2.69	1.13	2.96	2.65	6.09	1.24	1.55	2.26	26.75
79	1.79	1.06	2.13	3.02	2.50	2.76	4.54	2.14	.28	2.58	1.94	2.09	26.83
80	.95	.47	1.22	4.15	1.87	3.34	2.11	3.29	2.51	.99	1.03	2.19	24.12
81	.40	1.93	1.01	3.41	1.14	2.11	1.90	2.20	2.38	2.98	1.12	1.17	21.43
MEAN	1.684	1.303	1.898	2.469	2.708	2.470	3.780	3.446	2.632	1.949	1.599	1.638	27.578
S.D.	1.007	.690	1.147	.996	1.202	.802	1.864	1.531	1.658	1.067	.584	.682	4.431
TOTAL OBS	279	254	279	270	279	270	279	275	270	275	270	279	3281

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL
(FROM DAILY OBSERVATIONS)

726390 STATION | PHELPS-COLLINS/ALPENA MI STATION NAME | 73-81 YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00					
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120			MEAN	GREATEST	LEAST
JAN	13.3	38.4	18.6	14.3	7.9	3.9	.7	1.8	.7		.4			48.4	279	20.2	43.5	9.6
FEB	22.4	31.5	19.3	17.3	5.1	3.5	1.2		.8	.4				45.7	254	14.5	20.5	8.1
MAR	46.6	21.1	12.2	12.9	3.2	1.8	1.4	.4	.4					32.3	279	10.5	18.9	3.6
APR	77.4	14.1	3.4	1.1	1.4	1.9	.4	.7						8.9	270	4.7	12.5	TRACE
MAY	96.1	2.5	.7		.4		.4							1.4	279	.7	3.7	.0
JUN	100.0														270	.0	.0	.0
JUL	100.0														279	.0	.0	.0
AUG	100.0														279	.0	.0	.0
SEP	99.6	.4													270	TRACE	TRACE	.0
OCT	82.1	14.3	2.2	1.4										3.6	279	.5	2.5	TRACE
NOV	47.4	34.4	5.9	6.3	1.5	1.9	1.9	.7						18.1	270	8.1	19.5	3.6
DEC	20.1	29.7	18.3	16.1	8.6	2.5	1.8	1.8	.7	.4				50.2	279	21.3	32.2	12.6
ANNUAL	67.1	15.5	6.7	5.8	2.2	1.3	.6	.4	.2	.1	.0			17.4	3287	80.5		

USAFETAC FORM OCT 78 0-15-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

72639 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
73	2.9	3.2	8.0	5.7	TRACE	.0	.0	.0	.0	TRACE	3.0	5.7	8.0
74	2.6	10.1	2.5	1.8	3.7	.0	.0	.0	TRACE	.3	3.7	3.5	10.1
75	3.9	2.7	3.9	1.0	.0	.0	.0	.0	.0	TRACE	5.1	5.6	5.6
76	5.1	4.0	5.5	3.2	.1	.0	.0	.0	.0	1.2	4.3	2.4	5.5
77	5.0	3.1	1.2	2.8	.0	.0	.0	.0	.0	TRACE	6.0	7.0	7.0
78	16.3	7.9	4.0	.1	TRACE	.0	.0	.0	.0	TRACE	2.7	8.2	16.3
79	8.5	3.8	2.6	4.3	1.8	.0	.0	.0	.0	.2	3.0	5.5	8.5
80	3.5	2.5	4.1	5.6	.0	.0	.0	.0	.0	1.3	3.8	11.9	11.9
81	3.0	11.2	3.0	TRACE	.0	.0	.0	.0	.0	.2	3.8	5.6	11.2
MEAN	5.71	5.39	3.87	2.72	.62	.00	.00	.00	TRACE	.36	3.93	6.16	9.34
S.D.	4.379	3.397	1.974	2.179	1.297	.000	.000	.000	.000	.520	1.068	2.745	3.459
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AUG 64 0-88-S (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

726390 PHELPS-COLLINS/ALPENA MI 73-81
STATION STATION NAME YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
73	9.6	8.3	9.6	8.8	TRACE	.0	.0	.0	.0	TRACE	4.2	24.2	64.7
74	13.9	17.4	6.8	2.8	3.7	.0	.0	.0	TRACE	.3	7.7	12.6	65.2
75	14.0	13.0	17.7	1.1	.0	.0	.0	.0	.0	TRACE	10.9	16.0	72.7
76	34.5	18.0	18.9	3.5	.1	.0	.0	.0	.0	2.5	8.0	13.8	99.1
77	17.3	11.3	3.4	4.6	.0	.0	.0	.0	.0	TRACE	19.5	26.1	82.2
78	43.5	16.8	8.5	.1	TRACE	.0	.0	.0	.0	TRACE	7.8	29.1	105.8
79	23.3	13.5	4.8	9.1	2.2	.0	.0	.0	.0	.2	6.2	20.0	79.3
80	12.0	11.4	15.7	12.3	.0	.0	.0	.0	.0	1.5	4.6	32.2	90.1
81	14.0	20.5	9.5	TRACE	.0	.0	.0	.0	.0	.1	3.9	18.0	66.0
MEAN	20.21	14.51	10.52	4.70	.67	.00	.00	.00	TRACE	.53	8.08	21.33	80.55
S.D.	11.489	3.892	5.616	4.405	1.348	.000	.000	.000	.000	.871	4.832	6.925	15.155
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3281

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	3.6	5.0	2.2	8.6	10.0	11.5	30.6	26.2	2.2					91.4	279			
FEB	2.4	3.1	3.9	5.5	6.3	15.7	28.7	28.7	5.5					94.5	254			
MAR	21.4	13.3	6.1	4.3	3.9	12.2	20.4	17.9						64.9	279			
APR	74.4	10.0	4.4	3.3	1.5	5.2	1.1							15.6	270			
MAY	98.6	.4	.4	.7										1.1	279			
JUN	100.0														270			
JUL	100.0														279			
AUG	100.0														279			
SEP	100.0														270			
OCT	97.1	2.5	.4											.4	279			
NOV	65.9	15.2	7.0	3.3	4.1	2.2	1.9	.4						18.9	270			
DEC	6.5	10.4	13.4	15.4	13.3	19.7	19.4	1.6						83.2	279			
ANNUAL	64.2	5.0	3.2	3.4	3.3	5.5	8.5	6.2	.4					30.6	3287			

USAFETAC FORM 0-13-5 OCT 75 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

726390 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

DAILY SNOW DEPTH IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV	DEC.	ALL MONTHS
73	10	6	8	7	0	0	0	0	0	0	3	11	11
74	8	12	9	2	2	0	0	0	0	TRACE	2	6	12
75	7	10	10	5	0	0	0	0	0	0	7	6	10
76	24	22	19	2	TRACE	U	U	U	U	1	3	8	24
77	18	13	9	3	0	0	0	0	0	0	14	16	18
78	29	29	20	7	0	0	0	0	0	0	3	12	29
79	25	26	18	3	2	0	0	0	0	0	2	7	26
80	4	1	9	6	U	U	0	0	0	TRACE	TRACE	12	12
81	18	25	5	0	0	U	U	U	U	TRACE	4	5	25
MEAN	15.9	16.7	11.7	3.9	.4	.0	.0	.0	.0	.1	4.2	9.0	18.6
S.D.	8.992	8.832	5.874	2.472	.882	.000	.000	.000	.000	.333	4.116	4.031	7.518
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM AUG 64 0-88-5 (OL A)

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."

C

*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)

726390 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC	ALL MONTHS
73													
74											NW *30N	30	
75	SW 45NE	35E	35SW	42NW	35W	27W	39NW	31NW	27SW	28SW	49SW	33	SW 49
76	SE 30NW	35SW	37WSW	27NW	32NW	30SW	43W	28W	34NW	36NW	25NW	32	SW 43
77	NW 37W	32SW	40NW	35SW	39W	40SW	36NW	37WNW	36NW	38SW	35W	35	SW 40
78	N 45NE	26NW	38NW	39SW	38SW	27SW	33NW	28W	31SW	30SW	36NW	34	N 45
79	NW 29W	34NW	33W	52NW	30NW	35SE	28NW	29NW	26SE	34SW	41NW	35	W 52
80	SW 46NW	31NW	35N	39NW	30NW	30NW	28NW	23SW	36NW	34NW	31NW	37	SW 46
81	NW 32NW	29N	31SW	42N	28NW	28N	26N	23SW	35W	36W	31NW	28	SW 42
MEAN	37.7	31.7	35.0	39.4	33.1	31.0	33.3	28.4	32.1	33.7	35.4	33.0	45.3
S.D.	7.566	3.392	3.047	7.591	4.259	4.830	6.370	4.826	4.220	3.546	7.786	2.928	4.152
TOTAL OBS	217	198	217	210	217	210	217	217	210	216	224	248	2601

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A) § (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

CLIMATOLOGY BRANCH
USAF
WEATHER SERVICE/MAC

SURFACE WINDS

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

34 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH
ALL WEATHER — CLASS
0700-0200 — 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	1.2	1.7	1.2								4.8	7.5
NNE	.5	.2	.2									1.0	4.4
NE	.4	.4	.7	.6	.2							2.3	9.4
ENE		.5	.7	.6								1.8	5.8
E		.5	.5									1.0	6.9
ESE	.6	.2	.9	.5								2.2	7.4
SE	.7	1.0	1.7	.6	.1							4.2	7.6
SSE	.7	1.6	1.1	.4	.1							3.9	6.9
S	1.2	2.6	3.1	1.3	.4							8.6	7.9
SSW	.6	1.8	1.5	.5								4.4	6.6
SW	.9	5.1	3.7	.6	.1	.1						10.5	6.8
WSW	1.5	5.3	5.3	.6								12.5	6.6
W	2.2	5.8	7.1	1.6	.5							17.2	7.0
WNW	.7	2.1	5.4	1.8	.1	.1						10.3	8.6
NW	.9	.5	2.3	2.0	.4							6.2	9.5
NNW	.4	.7	.6	.6	.1							2.5	8.3
VARBL													
CALM												6.9	
	11.8	29.5	36.5	13.0	2.1	.2						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 816

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

AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 0330-0500 (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	.6	1.4	2.4	1.0								5.3	7.7
NNE	.2		.5	.7	.1	.2						1.9	12.7
NE	.2		.5	1.0								1.7	10.2
ENE		.2	.6	.1								1.0	8.1
E	.1	.5	1.1	.2								2.0	7.6
ESE	.1	.2	1.1	.5								2.0	8.8
SE	.4	.9	1.2	.5								3.0	7.2
SSE	.6	1.1	1.2	.4	.1							3.5	6.8
S	1.9	3.7	3.1	1.1	.4							10.2	6.9
SSW	.7	2.9	2.2	.6								6.5	6.7
SW	1.4	4.2	3.2	.9	.1							9.8	6.4
WSW	1.6	6.5	2.2	1.0	.1							11.4	6.1
W	1.9	6.8	5.3	.7	.2							15.0	6.3
WNW	1.2	3.0	3.7	2.6	.4							10.9	8.2
NW	.2	.9	1.1	3.1	.4							5.7	10.9
NNW	.2	.7	.9	1.1								3.0	8.9
VARBL													
CALM												7.2	
	11.5	33.0	30.5	15.6	1.9	.2						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 806

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

[illegible] TOLOGY BRANCH
[illegible]
[illegible] SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	JAN

CLASS: ALL WEATHER

HOURS (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	.5	1.7	.7	1.0								3.9	7.0
NNE		.4	1.1	.4	.1		.4					2.3	12.2
NE	.2		.7	.6								1.6	9.7
ENE	.4	.1	.4	.1								1.0	6.0
E	.2	.1	1.1	.9								2.3	9.3
ESE	.1		.5	.9								1.5	11.0
SE	.5	.6	1.6	1.3								4.0	8.3
SSE	.6	1.5	.9	.2								3.2	6.0
S	1.2	2.9	3.7	1.3	.5							9.6	7.6
SSW	1.1	2.1	2.7	.4	.1							6.3	6.8
SW	1.3	4.3	3.3	1.0	.4							10.2	6.7
WSW	1.[illegible]	3.7	3.9	1.3	.2	.1						10.2	7.4
W	2.4	6.5	4.6	2.4								16.0	6.7
WNW	.7	2.0	4.0	2.7	.2	.1						9.8	9.1
NW	.2	1.7	2.7	3.7	.2							8.5	10.0
NNW	.[illegible]	.6	1.2	.5	.1							2.7	8.5
VARBL													
CALM												6.8	
	10.9	28.0	33.0	18.7	2.0	.2	.4					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 820

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

AL CLIMATOLOGY BRANCH
FETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

39 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.2	2.1	1.3		.1	.2					5.6	9.[illegible]
NNE	.4	.4	.6	.6								2.0	[illegible]
NE	.1	.1	1.0	.7								2.0	[illegible]
ENE		.1	.4	.9								1.3	[illegible]
E	.2	.1	.5	.9	.1							1.8	[illegible]
ESE	.4	.1	.7	1.3								2.6	[illegible]
SE	.4	.9	1.2	1.1								3.6	[illegible]
SSE	.4	1.0	1.5	.5								3.3	[illegible]
S	1.1	2.0	3.7	2.0								8.7	[illegible]
SSW	.9	2.0	1.7	1.3		.1						6.0	[illegible]
SW	.9	3.2	3.8	1.0	.1	.1	.1					9.2	[illegible]
WSW	.9	2.5	4.7	2.3	.4	.2						10.9	[illegible]
W	.7	4.8	5.8	1.8	.4							13.5	7.[illegible]
WNW	1.0	2.2	5.5	4.0	.1	.2						13.1	9.[illegible]
NW	.2	1.7	2.7	3.6	1.1							9.3	10.[illegible]
NNW	.1	1.1	1.1	1.2	.1							3.7	9.4
VARBL													
CALM												3.3	
	8.2	23.3	36.9	24.7	2.3	.9	.4					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 815

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
59	PHELPS-COLLINS/ALPENA MI	73-81	JAN

CLASS: ALL WEATHER

HOURS (L.S.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	.5	2.1	2.5	1.8	.2		.1					7.2	8.8
NNE	.6	.6	1.0	1.0								3.2	8.0
NE		.2	1.1	.4								1.7	9.2
ENE	.1	.5	1.2	.4	.2							2.5	9.4
E		.2	.2	.4								.9	10.6
ESE		.4	1.5	1.1	.2							3.2	10.3
SE		.5	.6	1.1								2.2	10.2
SSE	.5	.4	1.5	2.0								4.3	9.3
S	.4	1.6	3.2	3.2	.1							8.5	9.5
SSW	.1	1.4	3.2	.7	.1	.1						5.7	8.6
SW	.5	.6	3.6	2.6	.2							7.5	9.8
WSW		1.6	4.9	2.8	.6							10.0	9.8
W	.4	1.2	5.2	6.4	.4							13.5	10.5
WNW	.5	.9	4.3	7.0	.9							13.5	11.3
NW	.1	.6	3.2	5.9	.7							10.6	11.8
NNW		.4	1.6	2.2	.9		.1					5.2	12.1
VARBL													
CALM												.5	
	3.7	13.1	38.7	38.9	4.7	.1	.2					100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 814

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

AL CLIMATOLOGY BRANCH
FETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

39 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH
ALL WEATHER — CLASS
1500-1700 — HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.1	1.5	3.3	1.7								6.6	8.7
NNE	.2	1.6	.9	.9								3.6	7.5
NE		.7	.2	.6								1.6	8.4
ENE	.1	.2	.6	.7								1.7	9.6
E	.5	.6	.9	.1								2.1	6.2
ESE	.1	.9	1.0	.5	.2							2.7	8.8
SE	.6	1.7	1.2	1.8	.2							5.7	8.7
SSE	.6	1.0	1.2	1.6								4.4	8.3
S	.2	1.6	2.3	2.0								6.2	8.7
SSW	.4	1.5	1.6	1.0								4.4	7.6
SW	.5	2.0	3.3	1.5	.1	.2						7.6	8.8
WSW	.6	1.6	3.7	1.8	.5	.1						8.4	9.4
W	.4	1.7	7.1	6.3	.2							15.7	10.0
WNW	.4	1.8	5.4	5.3	.7							13.7	10.1
NW	.1	1.4	2.7	5.7	.7	.1						10.7	11.3
NNW	.2	.5	1.6	1.5	.2	.4						4.4	11.1
VARBL													
CALM												.5	
	5.2	20.3	37.1	33.0	3.1	.9						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 813

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

L AL CLIMATOLOGY BRANCH
ETAC
A EATHER SERVICE/MAC

SURFACE WINDS

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

L 639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (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	.5	1.5	.9	.5								3.3	6.4
NNE	.4	1.2	.5	.6								2.7	6.6
NE	.2	.5	.4	.6								1.7	7.9
ENE	.4	.7	.5	.2								1.8	6.7
E	.6	.4	.2	.6								1.8	6.9
ESE	.5	1.0	.9	.7	.1							3.2	8.0
SE	.1	1.3	1.1	.5	.7							4.3	9.0
SSE	.7	1.6	1.5	.6								4.4	6.8
S	1.6	3.4	3.4	2.3								10.8	7.4
SSW	1.0	2.0	1.7	.5								5.2	6.4
SW	.5	2.2	1.5	.9		.1						5.2	7.4
WSW	1.6	3.3	4.5	1.1		.5						10.8	7.6
W	1.2	5.4	6.4	3.2	.2							16.4	7.8
WNW	1.5	3.8	3.9	5.2								14.4	8.5
NW	.2	1.6	2.1	2.2	.4	.2						6.7	10.1
NNW	.6	.6	.9	1.3	.1	.2						3.8	9.6
VARBL													
CALM												3.4	
	11.7	31.0	30.1	21.1	1.6	1.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 815

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

CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
14392	PHELPS-COLLINS/ALPENA MI	73-81	JAN

CLASS: ALL WEATHER

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

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	1.0	.6								3.4	6.7
NNE	.2	.5	.4	.7								1.8	8.8
NE	.4	.4	.4	.2	.1							1.5	7.6
ENE	.1	.6	.6									1.3	6.8
E		.2	.4	.5								1.1	9.7
ESE	.9	.2	.7	1.0								2.8	7.5
SE	.4	1.2	1.0	1.1	.2							3.9	8.8
SSE	.7	.9	1.0	.1	1.0							3.7	9.6
S	1.6	3.4	2.8	.6								8.5	6.2
SSW	1.0	2.6	2.0	1.5	.1							7.1	7.3
SW	1.8	3.2	4.3	1.3	.1	.1						10.9	7.2
WSW	1.2	6.4	3.7	1.0	.1	.1						12.5	6.6
W	1.7	5.2	4.9	1.5	.4							13.6	7.0
WNW	.5	2.8	5.5	3.1	.4							12.3	8.8
NW	.4	.9	2.2	3.2	.2							6.9	10.5
NNW	.5	.7	.6	1.0	.1							2.9	8.8
VARBL													
CALM												5.6	
	12.4	30.1	31.4	17.4	2.8	.2						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 815

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

L AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

.39. PHELPS-COLLINS/ALPENA MI 73-81 JAN
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	.6	1.4	1.8	1.2	.0	.0	.0					5.0	8.0
NNE	.3	.6	.6	.6	.0	.0	.0					2.3	8.6
NE	.2	.3	.6	.6	.0							1.8	9.1
ENE	.1	.4	.6	.4	.0							1.6	8.5
E	.2	.3	.6	.4	.0							1.6	8.3
ESE	.3	.4	.9	.8	.1							2.5	8.9
SE	.4	1.1	1.2	1.0	.2							3.9	8.4
SSE	.5	1.1	1.2	.7	.2							3.8	7.7
S	1.2	2.7	3.2	1.7	.2							8.9	7.7
SSW	.7	2.0	2.1	.8	.0	.0						5.7	7.2
SW	1.0	3.1	3.3	1.2	.2	.1	.0					8.9	7.5
WSW	1.0	3.8	4.1	1.5	.4	.1						10.8	7.7
W	1.4	4.7	5.8	3.0	.3							15.1	7.9
WNW	.8	2.3	4.7	4.0	.4	.1						12.2	9.3
NW	.3	1.2	2.4	3.7	.5	.0						8.1	10.7
NNW	.3	.7	1.1	1.2	.2	.1	.0					3.5	9.9
VARBL													
CALM												4.3	
	9.4	26.1	34.3	22.8	2.5	.5	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 6514

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
14839	PHELPS-COLLINS/ALPENA MI	73-81	FEB

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	.7	1.3	1.2	1.6								4.8	8.2
NNE	.1	.9	.5	.7								2.3	7.5
NE	.7	.5	.7	.4								2.3	6.1
ENE		.1	.5	.5								1.2	10.3
E		.3	.9	.4								1.6	8.8
ESE		.5	.5	.7								1.7	9.1
SE	.1	1.5	.8	.5								3.0	7.5
SSE	.4	1.3	1.6	.3								3.6	6.6
S	1.7	3.6	3.5	.8								9.7	6.5
SSW	1.1	2.3	2.6	.5								6.5	6.5
SW	1.7	2.8	2.0	.8								7.4	6.3
WSW	1.7	4.3	3.0	.5	.1							9.7	6.1
W	3.2	8.1	6.2	2.2	.1							19.8	6.5
WNW	1.6	3.5	5.0	1.3	.1							11.6	7.1
NW	1.1	1.2	1.7	.7								4.7	6.9
NNW	1.1	.8	.1	.5								2.6	5.4
VARBL													
CALM												7.7	
	15.3	33.2	30.9	12.5	.4							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 744

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

L AL CLIMATOLOGY BRANCH
TAC
EATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (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	1.3	1.3	1.3	1.3	.1							5.5	7.3
NNE	.5	.4	.8	.4								2.1	7.7
NE	.4	.4	.5	.3								1.6	6.6
ENE	.1	.1	1.2	.3	.1							1.9	8.6
E			.8	.7								1.5	11.0
ESE	.4	.3	.9	.1								1.7	6.9
SE	.4	.9	1.2	1.2								3.8	8.3
SSE	.7	.7	1.2	.1								2.9	5.8
S	1.2	3.9	4.4	.8								10.3	6.5
SSW	1.2	2.4	2.9	.1								6.7	6.1
SW	.9	2.7	2.8	.3								6.7	6.2
WSW	2.0	2.3	2.3	.5								7.1	6.0
W	5.1	8.0	5.9	.9								20.0	5.7
WNW	1.9	3.4	5.2	1.7								12.2	7.1
NW	1.1	1.5	1.2	1.3	.1							5.2	7.8
NNW	.7	.7	1.6	.4								3.4	7.1
VARBL													
CALM												7.4	
	18.2	29.0	39.5	10.6	.4							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 746

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

AL CLIMATOLOGY BRANCH
AFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	FEB

CLASS: ALL WEATHER

HOURS (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	1.2	2.0	2.0	.8								6.0	6.9
NNE	.3	1.1	.5	.3								2.1	6.4
NE	.5	.3	.7	.1								1.6	6.4
ENE	.1	.1	.4	.9	.3							1.9	11.6
E		.3	.7	.3	.3							1.5	10.8
ESE	.4	.3	.7	.4	.1							1.9	8.4
SE	.3	.5	1.5	.7								2.9	8.1
SSE	.5	1.1	1.5	.7								3.7	7.6
S	.9	3.9	3.2	.5								8.5	6.6
SSW	1.2	2.4	3.3	.1								7.1	6.4
SW	1.1	3.6	3.1									7.7	6.2
WSW	1.7	3.2	2.1	.9								8.0	6.1
W	3.9	7.3	5.7	1.5								18.4	6.1
WNW	1.7	3.9	3.3	1.5	.1							10.5	6.8
NW	.9	1.5	2.0	2.0								6.4	8.4
NNW	.5	.9	2.0	.5								4.0	7.4
VARBL													
CALM												7.9	
	15.3	32.2	32.6	11.2	.8							100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 751

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

...AL CLIMATOLOGY BRANCH
...ETAC
A... WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	FEB

CLASS: ALL WEATHER

HOURS (L.S.T.): 0900-1100

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	2.3	2.8								7.2	8.9
NNE	.4	1.6	1.7	1.2	.1							5.1	8.2
NE	.4	.5	.7	.9	.3							2.8	9.0
ENE	.4	.4	1.2	1.2								3.2	9.0
E	.1		1.6	.8								2.5	9.8
ESE	.5		.5	.5								1.6	7.8
SE	.5	.4	.8	.4								2.1	6.9
SSE	1.1	.3	1.2	1.6	.1							4.3	8.8
S	.5	2.4	5.9	2.0								10.8	8.3
SSW	.1	1.3	2.4	.4								4.3	7.6
SW	.8	2.7	3.6	.7								7.7	6.8
WSW	.9	2.8	3.1	1.1								7.9	6.9
W	1.6	2.4	4.7	2.4								11.1	7.8
WNW	.3	3.3	4.3	3.7	.5	.1						12.3	9.2
NW	.7	2.0	2.5	2.3	.3	.1						7.9	9.1
NNW	.8	.8	2.1	1.7	.1							5.6	8.9
VARBL													
CALM												3.6	
	10.1	22.2	38.6	23.8	1.5	.3						100.0	8.[illegible]

TOTAL NUMBER OF OBSERVATIONS 749

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

L HAL CLIMATOLOGY BRANCH
FETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	FEB

CLASS: ALL WEATHER

HOURS (L.S.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	.3	1.6	4.7	4.3	.1	.1						11.1	9.7
NNE	.3	.7	2.3	.9		.1						4.3	8.8
NE	.1	.7	1.2	.5								2.5	8.2
ENE	.3		1.2	.9								2.4	9.9
E	.1	.3	1.5	1.2								3.1	9.9
ESE		.4	2.1	1.1								3.6	9.1
SE		.5	.9	1.5								2.9	9.8
SSE	.4	.9	1.5	1.7	.1							4.7	9.3
S	.1	2.4	4.1	2.4	.3							9.4	8.9
SSW	.1	.8	1.9	1.1								3.9	8.3
SW	.3	1.5	3.3	1.7								6.8	8.4
WSW	.1	2.1	3.6	1.6								7.5	8.6
W	.1	1.5	3.3	3.9	.3							9.1	10.3
WNW	.1	1.6	2.8	5.5	.8							10.8	11.5
NW	.7	1.1	3.3	4.4	.7	.3						10.4	11.2
NNW	.4	1.5	2.3	2.1	.3	.1						6.7	9.6
VARBL													
CALM												.8	
	3.5	17.5	40.1	34.9	2.5	.1						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 748

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
[illegible]EATHER SERVICE/MAC

SURFACE WINDS

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

[illegible]39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) [illegible] (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	2.0	4.5	3.9								10.5	9.5
NNE	.3	1.1	2.2	.8								4.3	7.9
NE		1.5	1.1	.7								3.3	7.5
ENE	.3	.4	.1	.3								1.1	7.1
E	.1	1.1	2.4	1.9								5.6	9.[illegible]
ESE		.8	3.9	1.5								6.2	9.2
SE	.1	.5	1.9	1.9								4.5	9.7
SSE		1.1	.9	.5	.3							2.8	9.1
S	.1	1.5	3.8	2.6		.1						8.1	9.3
SSW	.4	.4	1.5	1.9								4.2	9.4
SW	.1	.7	1.6	1.2								3.7	9.3
WSW	.1	1.4	3.9	1.5	.1							7.0	8.8
W		.5	2.4	3.7	.5							7.2	11.1
WNW	.5	1.6	4.7	5.3	.5							12.7	10.1
NW	.1	.8	4.1	5.4	.5	.1						11.1	11.2
NNW	.7	1.6	2.8	1.9								7.0	8.6
VARBL													
CALM												.5	
	3.1	17.1	42.0	35.0	2.0	.5						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 738

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

AL CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

39 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH
ALL WEATHER — CLASS
1800-2000 — HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.8	1.6	1.8	.7	.3							6.1	6.5
NNE	.7	1.2	.7	.1								2.7	5.4
NE	.4	.7	.7	.1								1.9	6.1
ENE		.7	.3	.5								1.5	8.1
E	.4	1.2	1.5	.5								3.6	7.3
ESE	.5	.9	1.9	.7								4.0	7.4
SE	.5	1.8	2.2	1.1								5.5	7.6
SSE	.7	1.2	1.8	.3								3.9	6.5
S	.4	1.3	5.8	2.8								10.4	8.9
SSW	.1	1.2	1.2	1.3								3.9	8.3
SW	.1	1.2	1.5	.5								3.4	7.7
WSW	.5	1.5	1.9	.8	.1							4.9	7.5
W	.8	3.8	3.8	2.4	.1							10.9	8.0
WNW	1.8	3.4	7.3	4.0	.4							16.9	8.4
NW	.9	1.8	3.5	1.6	.1							7.8	8.4
NNW	1.5	1.3	2.6	.9	.1							6.5	7.5
VARBL													
CALM												6.1	
	11.1	24.5	38.2	18.6	1.2							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 741

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

[illegible] METEOROLOGY [illegible]
[illegible]
[illegible] SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	FEB

CLASS: ALL WEATHER

HOURS (L.S.T.): 21-0-23[illegible]

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	1.1	1.1	1.3								4.7	7.5
NNE	.5	.5	.5	.5	.1							2.3	7.6
NE	.5	.7	.4	.7								2.0	7.[illegible]
ENE	.4	.5	.3	.3								1.5	6.4
E	.3	.4	.5									1.2	5.[illegible]
ESE		.4	1.5	.7								2.5	9.
SE	.4	1.2	1.5	.5								3.6	7.1
SSE	.[illegible]	1.7	1.3	.4								4.4	5.[illegible]
S	1.3	2.[illegible]	5.1	1.1								[illegible].3	6.[illegible]
SSW	.7	[illegible].4	2.8	1.5	.1							8.4	7.6
SW	1.2	1.7	1.7	1.1								5.8	7.[illegible]
WSW	.7	3.4	1.6	.1								5.8	5.7
W	2.7	6.3	6.[illegible]	2.7	.1							18.4	7.1
WNW	.7	3.6	7.[illegible]	2.3								13.5	7.9
NW	1.1	1.7	2.8	.9								6.6	7.2
NNW	.4	.7	1.1	.7	.1							2.9	8.1
VARBL													
CALM												8.0	
	1[illegible].7	30.7	33.2	14.7	.5							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 746

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

AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

59 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — 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	.2	1.5	2.3	2.1	.1	.0						7.0	8.4
NNE	.4	.9	1.2	.6	.0	.0						3.2	7.7
NE	.4	.7	.7	.5	.0							2.2	7.4
ENE	.2	.3	.7	.6	.1							1.8	9.1
E	.1	.4	1.2	.7	.0							2.6	9.0
ESE	.2	.5	1.5	.7	.0							2.9	8.5
SE	.3	.9	1.3	1.0								3.5	8.2
SSE	.6	1.0	1.4	.7	.1							3.8	7.5
S	.8	2.7	4.2	1.6	.0	.0						9.4	7.7
SSW	.6	1.6	2.3	.9	.0							5.6	7.4
SW	.8	2.1	2.5	.8								6.2	7.0
WSW	1.0	2.6	2.7	.9	.1							7.2	6.9
W	2.2	4.8	4.8	2.4	.2							14.4	7.2
WNW	1.1	3.0	4.9	3.2	.3	.0						12.6	8.4
NW	.8	1.4	2.6	2.3	.2	.1						7.5	9.2
NNW	.6	1.0	1.8	1.1	.1	.0						4.8	8.1
VARBL													
CALM												5.2	
	11.2	25.9	36.3	20.1	1.2	.2						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 5963

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

59 PHELPS-COLLINS/ALPENA MI — 73-81 — MAR

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 0000-0200

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	.0	1.8	1.5	2.3								6.5	8.7
NNE	.5	.4	.7	.1								1.7	6.1
NE	.4	.5	.2	.4	.1							1.6	7.5
ENE	.5	.5	.2	.5	.2							2.0	9.2
E	.7	1.3	1.1	.7	.1							4.0	7.3
ESE	.6	1.8	1.6	2.4								6.5	8.7
SE	1.1	2.4	2.6	1.5								7.6	7.3
SSE	1.2	2.3	1.1	.2								4.9	5.3
S	1.5	3.1	2.7	.6								7.7	6.2
SSW	.5	2.2	2.3	.2								5.3	6.7
SW	1.1	2.1	2.1	.4								5.5	5.9
WSW	1.0	2.8	1.8	.9								6.5	6.5
W	1.7	5.6	5.8	.9								14.0	6.6
WNW	1.1	3.1	5.0	2.9								12.1	8.1
NW	1.5	1.8	1.5	.7	.2							5.5	7.2
NNW		.4	1.0	.5	.1							2.0	9.6
VARBL													
CALM												6.7	
	14.0	32.1	31.1	15.3	.9							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 817

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

AL CLIMATOLOGY BRANCH
FETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	MAR

CLASS: ALL WEATHER

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

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	.7	2.1	1.6	1.6	.1							6.1	7.9
NNE	.6	.6	1.1	.1	.1							2.5	6.9
NE	.7	.2	.6	.4	.2							2.2	8.2
ENE	.9	.6	1.0	.2	.2							2.9	7.0
E	.4	.7	1.2	1.7	.1							4.2	9.9
ESE	.7	2.0	2.0	1.1								5.7	7.4
SE	.6	2.7	1.3	1.3	.1							6.1	7.5
SSE	1.2	2.1	2.0	.2								5.5	5.8
S	1.2	2.9	2.4	.4								7.0	6.1
SSW	.7	1.7	1.6									4.0	6.1
SW	.9	2.2	1.2	.2								4.5	5.8
WSW	1.6	2.7	2.3	.7								7.3	6.0
W	1.3	6.3	5.1	.9								13.7	6.6
WNW	1.0	3.5	4.0	2.2	.1							11.1	7.7
NW	1.0	1.0	1.3	1.7								5.0	8.3
NNW	.6	.9	2.1	1.2								4.8	8.5
VARBL													
CALM												7.3	
	14.2	32.5	30.9	14.0	1.1							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 819

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

CLIMATOLOGY BRANCH
FETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
9395	PHELPS-COLLINS/ALPENA MI	73-81	MAR

CLASS: ALL WEATHER

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

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	1.5	1.2	1.1	.2							4.9	8.0
NNE	.1	.5	.7	.1		.2						1.7	9.4
NE	.6	.5	.7	.7								2.6	7.4
ENE	.6	.5	1.2	.6	.1							3.0	8.2
E	.5	1.2	1.0	1.7	.2	.1						4.7	9.9
ESE	.4	1.5	1.5	1.2	.1	.1						4.7	8.6
SE	.7	3.0	1.2	1.8								6.8	7.7
SSE	.7	2.6	.9	.6	.1							4.9	6.5
S	.6	2.8	2.7	1.0								7.1	7.1
SSW	.4	3.3	1.2									4.9	5.8
SW	1.3	1.7	2.1	.1								5.2	5.9
WSW	1.0	2.7	1.8	.7								6.2	6.1
W	1.3	4.9	4.5	1.1								11.8	6.6
WNW	1.5	2.8	3.2	3.3	.1							10.8	8.3
NW	1.1	3.2	2.4	2.1	.4							9.1	8.1
NNW	1.0	.5	1.8	.9	.1							4.3	8.2
VARBL													
CALM												7.3	
	12.7	33.0	28.1	17.0	1.5	.5						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 822

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

14392 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	1.5	3.8	1.5	.6							7.7	9.3
NNE	.5	.9	1.6	1.3	.2							4.5	8.9
NE	1.0	1.0	.7	1.2	.1							4.0	7.8
ENE		.1	.7	1.1								2.0	10.6
E	.2	.2	2.3	1.7	.1	.1						4.8	10.5
ESE	.2	1.1	2.2	2.6	.5							6.6	10.5
SE	.1	1.3	2.2	2.2	.2							6.1	9.3
SSE	.6	1.6	1.2	1.8	.2							5.5	8.7
S	.2	2.2	2.3	2.0	.1							6.9	8.9
SSW	.2	.2	2.9	1.0								4.4	8.6
SW	.5	.9	3.2	1.0	.1							5.6	8.4
WSW	.5	1.2	2.7	2.0	.2							6.6	8.8
W	.4	1.3	3.9	3.4								9.1	9.3
WNW	.2	1.2	2.9	3.8	.7	.2						9.2	10.6
NW	.4	.7	2.4	4.2	.6							8.3	11.2
NNW	.4	.5	2.3	2.8	.4	.2						6.6	11.2
VARBL													
CALM												2.1	
	5.9	16.0	37.6	33.5	4.3	.6						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 817

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

HQ CLIMATOLOGY BRANCH
USAF WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 59 STATION NAME: PHILLIPS-COLLINS/ALPENA MI YEARS: 73-81 MONTH: MAR

CLASS: ALL WEATHER HOURS (L.S.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	.5	1.3	4.3	4.0	.4							10.5	9.9
NNE	.2	1.5	1.6	1.3								4.5	5.3
NE	.2	.7	.6	1.2								2.8	4.2
ENE		.2	.7	2.2								3.2	11.5
E	.4	.7	3.6	1.8	.1							6.6	9.5
ESE	.4	1.1	3.9	2.8	.2							8.5	11.1
SE	.2	.5	2.2	1.8								4.7	9.9
SSE	.2	.4	1.3	.6	.5							3.1	10.2
S	.1	.7	3.7	3.2								7.7	10.1
SSW		.4	1.3	1.2	.2							3.2	10.7
SW	.1	1.2	2.2	2.0	.1	.1						5.8	9.2
WSW	.1	.7	3.4	3.1	.4							7.7	10.5
W		1.1	3.3	4.0	.2							8.7	10.4
WNW	.1	.5	1.5	3.8	.7	.2						6.9	12.7
NW		1.0	2.3	4.2	1.5	.1						9.1	12.4
NNW		.7	1.6	3.6	.4							6.2	11.5
VARBL													
CALM												.7	
	2.7	12.7	37.6	40.9	4.8	.5						100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 816

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	MAR

CLASS: ALL WEATHER

HOURS (L.S.T.): 1500-1700

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	.5	3.2	3.2	.4							7.5	10.2
NNE	.4	.9	1.7	1.0								3.9	8.1
NE	.1	.5	.9	1.0								2.4	9.4
ENE	.4	.6	1.3	.7								3.1	8.3
E	.1	1.7	3.4	2.4								7.7	9.1
ESE	.1	1.1	7.2	4.2	.2							12.8	9.6
SE		1.5	3.4	2.3	.1							7.3	9.7
SSE	.1	.5	1.1	.9								2.6	9.4
S	.1	.5	1.7	2.2	.1							4.6	10.6
SSW		.4	1.6	1.2	.4							3.5	10.8
SW	.2	.7	2.1	1.5	.1							4.6	9.2
WSW	.2	.7	2.2	3.1	.1							6.4	10.4
W	.2	.5	3.5	3.9	.7							8.9	11.1
WNW	.2	.5	1.8	4.5	1.0	.1						8.2	12.5
NW	.1	.7	2.2	3.5	1.2	.1						7.9	12.3
NNW	.1	.5	2.0	5.3	.2							8.1	11.9
VARBL													
CALM												.4	
	2.8	11.7	39.4	40.8	4.6	.2						100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 818

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

3x — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAR — 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	.7	2.0	3.1	.7	.4							6.8	8.0
NNE	.4	1.3	.6	.2								2.6	6.1
NE	.9	.7	1.0									2.6	5.8
ENE	.4	.9	1.3	.6	.2							3.4	8.3
E	.5	1.5	2.0	1.3	.2							5.5	8.5
ESE	.9	4.4	4.0	2.7								12.0	7.8
SE	.6	2.8	4.9	1.5	.1							9.9	7.8
SSE	.7	1.5	2.1	1.0								5.3	7.3
S	.4	1.1	2.0	1.1	.1							4.6	8.5
SSW	.4	1.1	.9	1.2								3.5	8.3
SW		.9	1.0	1.2	.1							3.2	9.8
WSW	.1	2.0	2.1	.9								5.0	7.7
W	.6	2.3	4.0	2.1	.4							9.4	8.6
WNW	.9	1.2	3.5	3.5	1.0							10.1	10.2
NW	.5	1.3	4.2	2.9	.2							9.2	9.6
NNW	.1	1.6	1.1	1.1	.4							4.3	9.0
VARBL													
CALM												2.6	
	7.9	26.5	37.7	22.1	3.2							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 818

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

HAL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
4390	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.T.): 0100-2300

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	1.3	1.1	1.1	.5							4.3	5.5
NNE	.6	1.2	.4									2.2	4.5
NE	.2	1.2	.2	.2								1.9	5.7
ENE	.8	.2	.7	.4	.1							2.3	7.[illegible]
E	.4	1.0	1.3	1.1	.2							4.0	[illegible]
ESE	.2	1.7	2.7	1.0	.1							6.3	7.5
SE	1.2	3.8	2.9	1.8	.1							9.8	7.5
SSE	1.7	3.2	1.5	.5								6.9	5.8
S	1.5	2.3	3.2	1.0								7.9	5.5
SSW	.7	1.6	1.3	.2								3.9	6.1
SW	1.1	1.1	2.2	.5								4.9	6.7
WSW	1.1	2.2	2.1	1.1								6.4	7.[illegible]
W	1.3	4.6	2.2	1.0								9.1	6.2
WNW	.5	3.2	5.1	4.1	.4							13.2	9.1
NW	1.0	1.8	2.1	1.9	.4							7.2	8.6
NNW	1.0	1.2	1.0	.7								3.9	6.9
VARBL													
CALM												5.5	
	14.3	32.0	29.8	16.6	1.8							100.0	[illegible]

TOTAL NUMBER OF OBSERVATIONS 825

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

SURFACE WINDS

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

[illegible] STATION | [illegible]-COLLINS/ALPENA I STATION NAME | 73-81 YEARS | MAR MONTH

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.6	2.5	1.9	.3							6.9	9.0
NNE	.4	.9	1.1	.5	.0	.0						3.0	7.6
NE	.5	.7	.6	.6	.1							2.5	7.7
ENE	.4	.5	.9	.8	.1							2.7	8.7
E	.4	1.1	2.0	1.6	.2	.0						5.2	9.2
ESE	.5	1.8	3.1	2.2	.2	.0						7.9	8.8
SE	.6	2.3	2.6	1.8	.1							7.3	8.2
SSE	.8	1.8	1.4	.7	.1							4.8	7.0
S	.7	2.[illegible]	2.6	1.4	.0							6.7	7.9
SSW	.4	1.4	1.6	.6	.1							4.1	7.7
SW	.7	1.3	2.0	.9	.1	.0						4.9	7.6
WSW	.7	1.9	2.3	1.5	.1							6.5	7.9
W	.9	3.3	4.0	2.2	.2							10.6	7.9
WNW	.7	2.[illegible]	3.4	3.5	.5	.1						10.2	9.6
NW	.7	1.4	2.3	2.7	.6	.0						7.7	9.9
NNW	.4	.5	1.6	2.0	.2	.0						5.0	10.0
VARBL													
CALM												4.1	
	9.3	28.6	34.[illegible]	25.0	2.8	.2						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 6552

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

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7 7 39.	PHELPS-COLLINS/ALPENA MI	73-81	APR

CLASS: ALL WEATHER

CONDITION:

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

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	1.3	2.2	1.9	.3							7.0	6.3
NNE	.9	1.5	1.5	.5								4.5	6.5
NE	.6	.6	2.0	.4	.1							3.8	7.9
ENE	.5	.3	.9	.6	.3	.1						2.7	9.4
E	1.0	1.0	1.3	.4	.3							4.0	7.3
ESE	.8	.6	1.1	.9								3.4	7.9
SE	.9	1.5	1.9	.9	.1							5.4	7.2
SSE	1.3	1.4	.5		.1							3.3	5.1
S	1.3	1.5	1.4	.8								5.0	6.7
SSW	.9	2.0	1.1	.6								4.7	6.3
SW	1.4	1.5	.9	.5								4.3	5.5
WSW	.4	1.9	1.3	.1								3.7	6.3
W	2.0	7.4	3.1	1.0		.1						13.7	6.0
WNW	1.5	4.3	4.1	2.3	.1							12.4	7.4
NW	1.0	1.7	3.3	.6	.3							5.9	7.9
NNW	.5	1.4	1.7	1.5	.3							5.4	8.7
VARBL													
CALM												9.8	
	16.5	30.1	28.4	13.2	1.8	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 783

USAFETAC FORM JUL 66 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AL CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) [illegible] (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	1.5	2.3	2.2								7.2	6.1
NNE	1.4	.8	2.3	1.1	.1							5.7	7.9
NE	1.0	.6	1.5	.8	.1							4.1	7.5
ENE	.5	.5	1.0	.5	.1							2.7	8.1
E	.5	1.3	1.5	.8	.3	.1						4.4	8.7
ESE	.3	1.4	1.6	1.4								5.2	7.8
SE	1.1	1.4	.8	.3								3.9	5.2
SSE	.5	1.0	.8	.1	.1							2.5	6.4
S	1.6	2.2	2.0	.3								6.1	5.5
SSW	.6	1.5	1.6									3.8	6.2
SW	.6	1.4	.6	.3								3.0	5.5
WSW	.8	2.2	1.5	.4		.1						4.8	6.3
W	2.5	7.5	3.5	1.4	.1							15.1	6.1
WNW	2.4	4.2	4.6	.8	.5	.4						12.9	7.3
NW	.8	1.1	1.6	.9								4.4	7.6
NNW	.5	.5	1.0	1.5	.4							3.7	10.1
VARBL													
CALM												10.9	
	16.1	28.6	28.4	12.5	1.8	.6						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 783

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]FETAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	APR

CLASS: ALL WEATHER

HOURS (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	1.3	.8	2.3	2.4	.4							7.[illegible]	9.1
NNE	.3	1.0	1.8	1.1	.3							4.4	9.4
NE	.4	.5	1.6	.9		.1						3.5	9.2
ENE	.3	.4	1.5	.9	.1							3.1	9.0
E	.3	1.4	2.0	1.8	.3							5.6	9.2
ESE	.4	1.0	3.0	1.5	.1							6.0	8.[illegible]
SE	1.1	2.5	1.8	.9								6.3	6.5
SSE	.5	1.[illegible]	.6	.3								2.6	5.7
S	.[illegible]	2.1	2.1	.3								5.3	6.6
SSW	.6	1.0	1.4	.5								3.5	6.7
SW	.8	2.1	2.1	.4								5.4	6.0
WSW	.8	1.8	1.3	.6								4.4	6.9
W	1.8	5.6	3.6	1.1	.1	.5						12.5	6.9
WNW	1.5	3.3	3.0	1.5	.1	.1						9.5	7.5
NW	.4	2.1	3.4	1.8	.8							8.4	9.0
NNW	.8	1.5	1.6	1.9								5.8	8.4
VARBL													
CALM												6.6	
	11.9	28.1	33.1	17.7	2.1	.5						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 795

USAFETAC FORM JUL 74 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

[illegible] CLIMATOLOGY BRANCH
[illegible]
[illegible] SERVICE/MAC

SURFACE WINDS

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

STATION: [illegible] STATION NAME: PHELPS-COLLINS/ALPENA MI YEARS: 73-81 MONTH: APR

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

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	3.2	2.9	4.9	.3	.1						11.6	9.6
NNE	.1	1.0	1.6	1.6	.3							4.7	9.6
NE	.1	1.3	2.0	1.4	.1							4.9	8.7
ENE	.4	.9	1.0	1.6	.1							4.0	9.4
E	.1	.6	2.8	2.0	.8							6.3	10.8
ESE	.4	1.3	2.9	3.2	.8							8.5	10.6
SE	.3	1.1	2.0	2.9	.1							6.4	10.1
SSE	.3	.5	.8	.3								1.8	8.7
S		.4	1.5	1.8								3.7	10.1
SSW	.3	1.3	1.9	.6	.1							4.2	7.5
SW	.1	1.1	2.4	1.8	.1							5.6	9.2
WSW	.3	.9	2.4	2.1	.3							5.9	10.0
W	.4	1.5	3.8	2.4	.1							8.0	9.5
WNW	.1	1.1	3.2	2.3	.5	.3						7.5	10.7
NW	.1	1.6	3.0	4.0	.8	.3						9.9	10.5
NNW	.1	.6	1.4	3.3	.6							5.1	11.6
VARBL													
CALM												1.1	
	3.3	18.2	35.7	36.3	4.9	.6						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 791

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

[illegible] CLIMATOLOGY BRANCH
[illegible]FETAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
739	PHELPS-COLLINS/ALPENA MI	73-81	APR

CLASS: ALL WEATHER

HOURS (L.S.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	.5	4.4	4.8	.1							10.0	10.5
NNE	.3	1.1	2.3	1.4								5.1	8.3
NE		.6	2.4	1.1								4.2	9.5
ENE	.1	.5	1.9	1.1	.1							3.9	9.4
E	.1	1.6	4.1	3.3	.6	.1						9.9	10.2
ESE	.3	.6	4.8	4.9	.5							11.1	10.7
SE	.1	.5	1.9	4.2	.1							6.9	10.9
SSE	.1	.3	.6	.4								1.4	8.5
S		.6	.6	1.6								3.0	10.3
SSW		.1	.8	1.8	.1	.1						2.9	12.5
SW		.5	1.4	1.8	.1	.1						3.9	11.3
WSW		.6	2.5	2.3	.1							5.6	10.5
W	.1	.4	3.0	3.5								7.1	10.4
WNW		.5	3.2	3.5	1.4	.3						8.9	12.1
NW	.1	.4	2.3	3.8	.8	.3						7.6	11.9
NNW		.6	2.7	4.6	.6	.1						8.6	11.6
VARBL													
CALM													
	1.4	9.9	38.9	44.2	4.7	1.0						100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 792

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

[illegible] CLIMATOLOGY BRANCH
[illegible]TAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

59 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-83 — 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		.8	5.3	6.1	.3							12.4	14.9
NNE	.1	.4	3.4	1.5								5.4	9.3
NE	.4	1.0	2.2	1.3								4.8	8.3
ENE	.1	.4	2.5	.6		.1						3.8	9.4
E	.1	.8	4.3	4.7	.5	.1						10.5	10.8
ESE		1.3	7.3	5.7	.4							14.7	10.3
SE		.5	2.5	3.0	.1							6.2	10.6
SSE		.1	.9	.3								1.3	9.2
S	.1		.3	1.5								1.9	11.5
SSW		.3	.5	1.3								2.0	10.6
SW		.1	.9	1.9	.1	.3						3.3	12.9
WSW		.8	1.8	2.0	.1							4.7	10.2
W	.1	.5	1.6	1.6								3.9	9.8
WNW		.5	1.6	5.2	.9	.3						8.5	12.6
NW		.3	2.4	3.9	.4	.3						7.2	12.2
NNW	.1	.3	2.2	5.9	.5	.3						9.2	12.2
VARBL													
CALM												.1	
	1.1	7.8	39.7	46.6	3.3	1.3						100.0	10.8

TOTAL NUMBER OF OBSERVATIONS 793

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 39 — STATION NAME: PHELPS-COLLINS/ALPENA MI — YEARS: 73-81 — MONTH: APR

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

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	.4	2.1	3.2	3.2	.3	.1						9.2	9.5
NNE	.4	1.9	2.5	.8								5.6	7.3
NE	.9	1.5	1.5	.3	.1							4.3	6.4
ENE	.3	1.6	1.9	.6	.1	.1						4.7	7.9
E	.5	2.3	2.8	2.1	.1							7.8	8.4
ESE	.4	4.3	5.3	1.6	.1	.1						11.9	7.9
SE	1.0	3.4	2.7	.6								7.7	6.6
SSE	.5	1.4	.5	.5								2.9	6.4
S	.6	.9	1.6	.5								3.7	7.2
SSW		.8	1.0	.6								2.4	8.5
SW	.1	.6	.3	1.4	.1	.1						2.7	10.1
WSW	.3	.8	.9	.9	.1	.1						3.0	9.4
W	.5	.6	1.9	.5	.5							4.0	9.2
WNW	.3	1.8	3.7	3.8	.6	.1						10.2	10.6
NW	.4	1.3	2.7	3.8	.5	.1						8.7	10.5
NNW	.5	1.0	3.3	3.5	.1	.3						8.7	9.9
VARBL													
CALM												2.5	
	6.9	26.3	35.6	24.7	2.8	1.1						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 792

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	APR

CLASS: ALL WEATHER

HOURS (L.S.T.): 2100-2500

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	2.1	2.9	1.5	.3							7.6	8.1
NNE	.9	1.3	1.6	.8								4.5	7.1
NE	.9	1.1	.6	.3								2.8	5.3
ENE	.3	.4	.8	.4	.1	.3	.1					2.3	11.5
E	.5	.9	.8	1.4								3.3	9.2
ESE	1.5	1.9	1.5	.9								5.5	6.5
SE	1.6	2.4	1.5	.6	.1							6.3	6.0
SSE	1.6	3.0	.4	.1								5.2	4.7
S	1.9	2.4	1.5	.4								6.2	5.5
SSW	.5	1.0	1.0	.5								2.9	6.4
SW	1.4	1.1	1.8	.3								4.5	5.9
WSW	1.1	1.5	.9	.6	.1							4.3	6.2
W	.3	2.4	2.6	1.1								6.9	7.3
WNW	1.0	4.2	4.0	3.3	.5							13.0	8.4
NW	.4	1.9	3.4	2.8	.5							9.1	8.8
NNW	1.1	1.6	2.0	1.3	.1							6.2	7.6
VARBL													
CALM												9.6	
	16.1	29.2	27.3	15.9	1.5	.3	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 794

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
A[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible]3V. (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.5	3.2	3.4	.2	.0						9.0	9.4
NNE	.5	1.1	2.1	1.1	.1							5.0	8.2
NE	.5	.9	1.7	.8	.1	.0						4.0	8.0
ENE	.3	.6	1.4	.8	.1	.1	.0					3.4	9.1
E	.4	1.2	2.4	2.1	.5	.0						6.5	9.6
ESE	.5	1.5	3.5	2.5	.2	.0						8.3	9.2
SE	.8	1.7	1.9	1.7	.1							5.1	8.0
SSE	.6	1.1	.6	.2	.0							2.5	6.0
S	.8	1.3	1.4	.9								4.3	7.3
SSW	.4	1.0	1.2	.7	.0	.0						3.3	7.8
SW	.6	1.1	1.3	1.0	.1	.1						4.1	8.2
WSW	.4	1.3	1.6	1.1	.1	.0						4.6	8.4
W	1.0	3.2	2.9	1.6	.1	.0						8.9	7.5
WNW	.9	2.5	3.4	2.8	.6	.2						10.3	9.3
NW	.4	1.3	2.8	2.7	.5	.1						7.8	10.0
NNW	.5	.9	2.0	2.9	.3	.1						6.7	10.2
VARBL													
CALM												5.1	
	9.3	22.3	33.4	26.4	2.9	.7	.3					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 6327

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

[illegible] CLIMATOLOGY BRANCH
[illegible]ETAC
A[illegible] EATHER SERVICE/MAC

SURFACE WINDS

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

[illegible]39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (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	.7	1.7	.9								4.0	7.9
NNE	.9	1.1	.6	.5								3.1	6.0
NE	.4	1.0	.6	.1								2.1	5.8
ENE	.4	.4	.4	.1	.1							1.4	6.7
E	.4	.7	.9	.2	.1							2.8	6.1
ESE	1.0	2.2	1.9	.2								5.3	6.0
SE	1.0	2.0	.6	.2								3.9	5.2
SSE	2.3	2.1	.7	.2								5.4	4.5
S	4.1	2.5	2.5	.1								9.1	4.9
SSW	1.1	.9	.7	.7								3.5	6.4
SW	1.7	1.2	.4	.5								3.8	5.0
WSW	2.5	1.7	.5	.1								4.8	4.1
W	3.5	6.8	3.0	.6								13.8	5.3
WNW	2.3	5.6	3.0	.5								11.6	5.5
NW	1.1	2.5	3.0	.1								6.7	6.2
NNW	1.1	.5	1.1	.4								3.2	6.0
VARBL													
CALM												15.5	
	24.8	32.3	21.5	5.7	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 809

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

14839 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — 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	.5	1.2	1.5	1.3	.1							4.7	8.3
NNE	1.2	1.1	.5	.4								3.2	5.1
NE	.7	1.0	1.7	.1								3.6	5.9
ENE	.5	1.0	.5	.1								2.1	5.5
E	.4	.7	.9	.2	.1							2.3	7.2
ESE	1.0	1.6	1.5	.4	.1							4.5	6.4
SE	1.0	2.2	1.5	.5								5.2	6.0
SSE	2.0	2.6	1.1									5.6	4.6
S	1.3	2.3	.9	.6								5.2	5.7
SSW	1.2	.7	1.5	.2								3.7	5.9
SW	2.1	2.5	1.2	.2								6.0	5.0
WSW	1.3	2.0	.4	.1								3.8	4.5
W	2.7	8.6	3.1	1.1								15.5	5.6
WNW	2.5	5.6	2.1	.6								10.8	5.3
NW	1.1	2.1	1.1	.7								5.0	6.1
NNW	1.1	1.2	.6	.5								3.4	5.6
VARBL													
CALM												15.5	
	20.6	36.4	19.9	7.2	.4							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 815

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

CONDITION:

HOURS (L.S.T.): 0600-0800

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	1.1	1.7	1.7	.1							5.2	8.7
NNE	.9	1.6	1.6	.7								4.8	6.6
NE	.9	1.9	1.5	.1								4.4	5.9
ENE	.4	1.0	.4	.1								1.8	5.6
E	.2	.9	1.9	.4								3.4	7.4
ESE	.4	1.9	3.3	.7								6.3	7.6
SE	.6	1.8	1.6	.4								4.4	6.7
SSE	2.3	2.8	1.5	.1								7.2	4.7
S	1.0	1.6	2.2	1.0								5.7	7.0
SSW	.5	1.5	1.6	.6								4.1	7.3
SW	1.5	2.7	1.6									5.6	5.5
WSW	1.5	3.0	1.7	.9								7.1	6.4
W	1.6	7.6	3.3	.9								13.3	6.1
WNW	1.3	3.2	3.5	1.5								9.5	7.2
NW	.7	2.4	2.2	1.0	.1							6.5	7.5
NNW	.7	1.1	1.1	.7								3.7	7.2
VARBL													
CALM												7.1	
	15.3	36.1	30.6	10.7	.2							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 821

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.T.): 0900-1100

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	1.1	4.5	2.7	.5							9.2	9.5
NNE	.1	.9	1.2	1.1	.2							3.5	9.7
NE	.6	1.8	1.3	.9								4.7	7.4
ENE	.1	.9	1.0	.5								2.4	7.7
E	.4	1.5	3.9	1.5								7.2	8.3
ESE	.5	2.3	4.4	1.7	.2							9.2	8.5
SE	.4	2.2	3.1	1.6		.1						7.3	8.5
SSE	.4	2.0	1.5	.1								3.9	6.8
S		1.3	1.5	3.2	.2							6.2	10.5
SSW	.4	.9	1.6	.5	.2							3.5	8.4
SW	.2	1.5	1.2	1.2								4.2	8.3
WSW	.2	1.1	3.7	1.7	.1							6.9	8.9
W	.6	1.5	4.7	2.3	.1							9.2	9.0
WNW	.7	1.8	3.2	2.0	.1							7.8	8.8
NW	.5	.5	2.9	3.1	.2	.4						7.6	11.0
NNW	.4	1.3	2.1	2.1	.2							6.1	9.1
VARBL													
CALM												1.0	
	5.9	22.5	41.7	26.1	2.3	.5						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 817

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

L AL CLIMATOLOGY BRANCH
FLTAC
A EATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
4 SY	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.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	.5	1.1	4.9	4.5	.7							11.7	10.2
NNE		.7	1.8	.6	.1							3.3	9.1
NE	.1	1.1	2.2	.4								3.8	7.7
ENE		.1	1.1	.6								1.8	9.3
E	.1	1.6	4.4	2.9								9.0	9.2
ESE	.1	1.1	7.5	6.1	.1							14.9	10.5
SE		1.0	5.1	3.7	.1							9.9	10.0
SSE		.7	.4	1.0	.1							2.2	9.3
S		.5	1.1	2.4	.1	.1						4.3	12.1
SSW		.5	.7	2.0	.1	.1						3.4	11.7
SW	.1	.5	1.3	1.8	.2							4.0	10.3
WSW	.1	.5	1.6	1.1	.1							3.4	9.6
W	.4	1.3	3.7	2.8	.2							8.4	9.4
WNW	.1	.7	2.1	4.4	.4							7.7	11.2
NW		.2	1.5	3.7		.2						5.6	12.1
NNW	.2	.6	2.0	3.3		.1						6.2	10.8
VARBL													
CALM												.1	
	1.8	12.3	41.3	41.3	2.4	.6						100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 613

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.T.): 1500-1700

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	.5	4.4	5.3	.7							11.1	11.2
NNE		1.2	3.1	1.0								5.3	8.3
NE		.7	2.2	.1								3.1	8.3
ENE	.1	1.0	2.1	.6								3.8	8.0
E	.1	2.1	5.7	3.5	.1							11.6	9.3
ESE	.1	1.8	8.7	8.4	.2							19.3	10.1
SE		.7	4.8	4.8	.2							10.5	10.4
SSE	.1	.2	1.0	1.0	.1							2.4	10.2
S		.2	.7	2.0	.5							3.4	12.3
SSW		.2	.6	1.6	.4							2.8	12.3
SW		.2	.2	.6	.4							1.5	12.3
WSW	.1	.2	.4	2.4	.1							3.3	11.7
W	.1	.5	2.9	2.3	.2							6.1	10.5
WNW		.4	1.6	3.2	.2							5.4	11.5
NW		.5	1.1	3.1	.4							5.0	11.4
NNW		.5	2.2	1.6	.6	.1						5.0	11.3
VARBL													
CALM												.5	
	1.0	11.1	41.6	41.4	4.3	.1						100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 919

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

AL CLIMATOLOGY BRANCH
TAC
SERVICE/MAC

SURFACE WINDS

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

STATION: 59 — STATION NAME: PHELPS-COLLINS/ALPENA MI — YEARS: 73-81 — MONTH: MAY

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

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	.2	2.2	4.3	5.8	.4							12.9	9.7
NNE	.5	1.6	1.8	.5								4.4	7.0
NE	.6	1.6	1.1	.2								3.5	5.[illegible]
ENE	.7	1.9	.7	.1								3.5	5.5
E	.6	3.5	2.9	1.0	.1							8.2	6.9
ESE	1.6	5.2	8.5	1.7								17.3	7.1
SE	1.2	5.8	5.2	.7								13.[illegible]	6.5
SSE	.5	1.5	2.2	.9								5.2	7.6
S	.5	1.0	.9	1.6	.1							4.0	8.5
SSW	.4	.2	.5	.4								1.5	7.7
SW	.2	.2	.9	.5								1.8	8.5
WSW	.4	.4	.9	.1		.1						1.9	7.[illegible]
W	.2	1.1	2.3	1.1								4.8	8.2
WNW	.4	1.5	1.2	2.9	.1							6.1	9.5
NW	.2	1.5	1.8	2.4	.6							6.0	10.1
NNW	.4	.7	2.2	2.7								5.[illegible]	9.5
VARBL													
CALM												1.7	
	8.9	30.0	37.4	25.6	1.3	.1						100.[illegible]	7.7

TOTAL NUMBER OF OBSERVATIONS 821

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

NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
58	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.T.): 2100-2500

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	2.3	2.1	.7	.1							6.3	7.1
NNE	1.0	1.2	.6	.4								3.2	5.7
NE	1.5	1.1	.4	.2								3.2	4.7
ENE	1.5	1.5		.1								3.1	3.8
E	1.8	1.0	1.0	.5								4.3	5.4
ESE	2.6	2.5	1.5	.1								6.6	5.0
SE	3.4	2.2	1.5	.2								7.4	4.5
SSE	2.1	2.7	.9	.7								5.9	5.2
S	3.2	3.6	2.2	1.0								9.9	5.7
SSW	.4	.5	1.1	.4								2.5	6.6
SW	.9	1.1	.5									2.5	4.7
WSW	1.6	1.6										3.2	3.4
W	2.1	3.6	2.6	.5								8.7	5.8
WNW	1.0	2.6	3.2	.6								7.4	6.5
NW	.5	2.6	2.5	1.8								7.4	8.0
NNW	.5	1.1	3.1	.7								5.4	8.1
VARBL													
CALM												13.6	
	25.4	30.5	22.9	8.1	.1							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 816

USAFETAC FORM 0-8-5 OL-A1 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

[illegible] SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
58	PHELPS-COLLINS/ALPENA MI	73-81	MAY

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.[illegible]	1.5	3.1	2.6	.3							7.[illegible]	7.[illegible]
NNE	.3	1.2	1.4	.6	.0							3.5	7.5
NE	.[illegible]	1.3	1.4	.3								3.2	6.5
ENE	.[illegible]	1.[illegible]	.8	.3	.0							3.5	6.4
E	.[illegible]	1.[illegible]	2.7	1.3	.1							6.1	6.0
ESE	.7	2.3	4.7	2.4	.1							10.4	8.3
SE	.[illegible]	2.2	2.0	1.5	.0	.0						7.7	7.6
SSE	1.3	1.[illegible]	1.1	.5	.0							4.7	6.[illegible]
S	1.3	1.6	1.5	1.5	.1	.0						6.1	7.6
SSW	.5	.7	1.0	.8	.1	.0						3.2	6.[illegible]
SW	.[illegible]	1.2	.9	.6	.1							3.7	6.9
WSW	1.[illegible]	1.3	1.1	.8	.0	.0						4.3	7.[illegible]
W	1.4	3.5	3.2	1.5	.1							10.2	7.[illegible]
WNW	1.0	2.7	2.5	2.0	.1							8.3	7.3
NW	.5	1.5	2.9	2.9	.6	.1						9.3	7.1
NNW	.6	.9	1.8	1.5	.1	.0						4.7	7.[illegible]
VARBL													
CALM												6.8	
	12.9	25.4	32.1	20.2	1.4	.2						100.2	7.2

TOTAL NUMBER OF OBSERVATIONS 1536

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

[illegible] CLIMATOLOGY BRANCH
[illegible]TAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39[illegible]	PHILLIPS-COLLINS/ALPENA MI	73-81	JUL

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	1.1	1.1	1.7									3.9	5.1
NNE	.1	.[illegible]	.4									1.4	4.6
NE	.3	.8	.3									1.5	4.[illegible]
ENE	.5	.6	.2									1.3	4.3
E	.4	.5										.9	3.7
ESE	.3	1.3	.9									2.9	5.3
SE	2.4	2.5	1.4									6.4	4.5
SSE	2.4	3.1	.8	.3								6.5	4.6
S	4.[illegible]	5.2	3.2	.3								14.1	5.[illegible]
SSW	2.3	2.9	1.8	1.0								8.5	5.7
SW	2.[illegible]	3.3	1.1	[illegible]								6.5	4.4
WSW	2.4	2.2	.9	.3								6.6	4.3
W	2.8	6.7	1.3	.1								10.9	4.6
WNW	2.[illegible]	4.6	1.1	.4	.1							8.8	5.2
NW	1.7	1.3	1.8	1.0								5.7	6.7
NNW	.4	.4	.6	.9								3.3	7.[illegible]
VARBL													
CALM												12.1	
	23.1	38.4	17.2	4.2	.1							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 787

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

39 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUL — 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	.5	1.0	1.5									2.5	6.4
NNE	.5	.9	.8									2.4	5.3
NE	.4	.3	.4									1.0	5.6
ENE	.3	.4	.3	.1								1.0	6.5
E	.8	.5	.1									1.4	3.8
ESE	.5	1.1	.4	.4								2.5	5.9
SE	1.4	2.1	1.1	.1								4.8	5.2
SSE	1.5	2.5	.8	.3								5.0	4.3
S	4.7	5.4	2.8	.9								13.7	5.3
SSW	2.4	3.4	1.6	.3								7.7	5.2
SW	2.0	3.0	1.3									6.3	4.8
WSW	3.0	2.5	1.8	.1								7.4	4.7
W	4.3	4.7	3.1	.4								12.5	4.8
WNW	2.9	3.4	2.0		.1							8.4	5.1
NW	1.4	2.1	1.9	.8								6.2	6.0
NNW	.9	.8	.6	.8	.1							3.1	7.0
VARBL													
CALM												14.0	
	27.5	34.1	20.2	4.0	.3							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 794

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

NAL CLIMATOLOGY BRANCH
TAL
ATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	JUN

CLASS: ALL WEATHER

HOURS (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	.5	1.3	.8	.8								3.3	7.2
NNE	.6	.6	1.3	.9								3.7	7.5
NE	.1	.6	.5	.6								1.9	8.3
ENE	.6	.5										1.1	3.9
E	.5	.8	.6									1.9	5.1
ESE	.3	1.4	1.8	.6								4.1	7.0
SE	1.4	2.2	2.0	.1								5.7	6.[illegible]
SSE	1.6	2.5	.6	.5								5.3	5.1
S	1.5	4.4	3.7	1.3								10.9	6.5
SSW	1.0	2.8	2.4	.9								7.1	6.6
SW	1.9	3.9	2.9	.1								8.9	5.4
WSW	1.0	2.7	2.8	.4								6.8	6.4
W	3.8	5.6	5.4	.9								15.0	6.3
WNW	1.5	2.7	3.2	1.8								9.1	7.3
NW	.5	1.9	1.4	1.0								4.8	7.4
NNW	.5	1.1	1.4	1.1	.1							4.3	8.4
VARBL													
CALM												6.1	
	16.9	35.1	31.8	11.0	.1							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 789

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

NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (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	.5	.6	3.0	1.5	.5							5.7	9.6
NNE		.6	1.0	1.0	.1							2.8	9.9
NE	.5	.5	1.4	.4	.1							2.9	7.9
ENE	.3	.3	1.3	.3								2.0	7.7
E	.3	.4	1.3	.6								2.5	8.3
ESE	.1	.6	2.9	1.9								5.6	9.4
SE	.4	1.5	3.7	1.0								6.6	7.9
SSE	.1	1.5	3.0	.5								5.2	7.6
S	.8	1.5	4.3	2.9								9.5	8.7
SSW	.1	1.1	2.5	2.0								5.8	9.1
SW	.8	.9	3.4	2.5	.1							7.7	9.0
WSW	.5	2.8	4.0	2.1								9.5	8.1
W	.8	2.7	6.6	3.0	.1	.1						13.3	8.6
WNW	.4	1.9	3.4	3.2	.1							9.0	9.3
NW	.3	.4	2.8	2.3								5.7	9.8
NNW	.1	.5	1.8	2.7	.5							5.6	10.5
VARBL													
CALM												.5	
	5.6	18.1	46.4	27.9	1.1	.1						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 791

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

CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: 39 — STATION NAME: PHELPS-COLLINS/ALPENA MI — YEARS: 73-81 — MONTH: JUN

CLASS: ALL WEATHER — HOURS (L.S.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	.5	3.2	3.3	.4							7.7	10.5
NNE	.1	.4	1.6	1.3								3.4	9.3
NE	.1	.4	.6	.9								2.0	9.7
ENE		.4	.8	.3								1.4	8.3
E		.9	4.8	1.8	.1							7.6	9.2
ESE		.5	7.6	4.2								12.4	10.3
SE		1.0	4.8	2.7								8.5	9.5
SSE		.5	2.5	.3								3.3	8.5
S	.3	.1	2.4	3.3	.3							6.3	11.2
SSW		.4	2.4	2.7								5.4	10.5
SW	.4	1.6	2.8	2.9	.1							7.9	9.3
WSW	.1	1.0	2.4	2.9	.1							6.6	10.0
W	.3	1.4	4.1	3.5	.5	.1						9.9	10.2
WNW		1.1	2.0	4.2	.1							7.5	10.8
NW	.1	.1	2.5	2.7	1.0							6.5	11.9
NNW		.1	1.4	1.4	.6							3.5	11.5
VARBL													
CALM													
	1.5	10.9	46.0	38.1	3.3	.1						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 789

USAFETAC FORM JUL 66 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

[illegible] CLIMATOLOGY BRANCH
[illegible]
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible] (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.1	.4	4.3	4.6	.3							10.7	11.5
NNE		.6	1.4	1.3	.3							4.1	10.0
NE		.5	1.5	1.0								3.0	9.5
ENE	.1	.1	.8	.3								1.3	7.9
E	.3	.9	4.4	1.3								6.8	8.8
ESE	.1	1.9	9.9	4.8	.3							15.9	9.7
SE	.5	.6	5.4	5.4								10.3	9.8
SSE		.5	1.1	.6								2.0	9.7
S		1.3	2.8	3.4	.5							8.0	10.5
SSW		.7	1.3	2.0	.1							3.7	11.3
SW	.1	.5	1.5	1.9								4.2	9.9
WSW		.4	2.5	2.5	.5							5.4	10.[illegible]
W	.1	.3	3.8	2.2	.4							7.2	10.0
WNW	.4	.5	2.9	2.9	.1	.1						7.0	10.3
NW		.4	1.6	2.4	.4							4.8	11.6
NNW	.1	.3	1.3	3.5	.5							5.7	12.7
VARBL													
CALM												.1	
	1.5	10.1	46.3	38.6	3.0	.1						100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 792

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (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	.4	1.0	3.9	3.0	.1							3.4	9.7
NNE	.3	1.3	1.4	.8	.3							3.9	8.4
NE	.8	1.8	.9	.5								3.7	5.9
ENE	.6	1.3	1.3									3.1	5.7
E	.6	3.8	2.4	.1								6.9	6.[illegible]
ESE	1.1	5.2	7.1	1.3								14.6	6.9
SE	1.4	5.0	5.8	.9								13.1	6.6
SSE	.5	2.1	1.8	.9	.1							5.4	7.6
S	.4	1.8	2.6	.8								5.5	7.8
SSW	.3	.9	.8	.8								2.6	7.8
SW	.3	1.1	1.4	.8								3.5	7.9
WSW	.5	1.1	2.0	.4								4.0	7.2
W	.6	2.4	3.1	1.4	.1							7.7	7.9
WNW	.5	1.8	2.3	1.3								5.8	8.0
NW	.3	1.0	1.6	2.6	.1							5.7	10.1
NNW	.1	.9	1.8	2.4	.3							5.4	10.4
VARBL													
CALM												.5	
	8.6	32.4	40.1	17.5	1.0							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 794

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

CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

139 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (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	1.6	1.0	.6	1.0								4.3	6.2
NNE	.5	1.3	.4	.1								2.3	4.7
NE	.5	1.4	.4	.3								2.5	5.7
ENE	.5	.9	.4	.1								1.9	5.0
E	1.0	.8										1.8	3.5
ESE	1.8	1.9	.9									4.6	4.6
SE	2.4	5.1	2.8	.3								10.5	5.5
SSE	2.5	3.7	1.9									8.1	4.8
S	4.7	4.9	2.3	.3								12.1	4.7
SSW	1.3	2.8	2.1	.4								6.6	5.9
SW	2.3	1.4	.8	.1								4.6	4.4
WSW	1.9	1.8	1.0	.1								4.8	4.6
W	2.3	3.5	1.0	.1	.1							7.1	5.1
WNW	1.6	3.3	1.5	.3								6.1	5.9
NW	.6	2.0	2.8	1.4								6.8	7.7
NNW	.4	1.6	1.4	.5	.3							4.2	7.5
VARBL													
CALM												11.9	
	24.3	37.3	20.2	4.9	.4							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 791

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

L AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	JUN

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.6	.9	2.3	1.8	.1							5.7	9.0
NNE	.3	.8	1.1	.7	.1							3.0	8.0
NE	.4	.8	.7	.4	.0							2.3	7.2
ENE	.4	.6	.5	.1								1.6	6.2
E	.5	1.1	1.7	.5	.0							3.7	7.3
ESE	.6	1.8	3.8	1.6	.0							7.8	8.2
SE	1.2	2.5	3.4	1.1								8.3	7.1
SSE	1.1	2.0	1.6	.4	.0							5.1	6.1
S	2.1	3.2	3.0	1.6	.1							10.0	6.9
SSW	1.0	1.8	1.9	1.2	.0							5.9	7.3
SW	1.2	2.0	1.9	1.0	.0							6.2	6.9
WSW	1.2	1.6	2.1	1.1	.0							6.3	7.1
W	1.8	3.5	3.6	1.5	.2	.0						10.4	7.0
WNW	1.2	2.4	2.3	1.7	.1	.0						7.7	7.7
NW	.6	1.2	2.1	1.9	.2							5.8	8.9
NNW	.4	.8	1.3	1.7	.3							4.4	9.7
VARBL													
CALM												5.7	
	14.4	27.1	33.4	18.3	1.2	.0						100.0	[illegible]

TOTAL NUMBER OF OBSERVATIONS 6325

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

AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	75-81	JUL

CLASS: ALL WEATHER

HOURS (L.S.T.): 0000-2300

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	.5	.6	.4								2.2	5.3
NNE	.5	1.1	.2									2.0	4.3
NE	.7	.1	.2									1.1	3.4
ENE	.2	.0	.1									1.3	4.5
E	.7	.4										1.1	3.2
ESE	.7	.4	.2	.2								1.5	5.3
SE	.4	1.0	.6									2.0	5.0
SSE	1.9	2.7	.4	.1								4.8	4.5
S	2.7	4.5	1.7									8.9	4.2
SSW	1.1	3.2	1.4									5.7	5.2
SW	2.2	4.6	1.7									8.6	4.7
WSW	4.6	5.0	2.1	.1								11.9	4.4
W	4.1	7.9	1.7	.2								14.0	4.0
WNW	1.2	5.7	2.0	.6								9.5	5.7
NW	.6	1.9	1.7	.2								4.5	6.3
NNW	.7	1.1	.6	.7								3.2	7.0
VARBL													
CALM												16.3	
	23.2	40.6	15.5	2.7								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 807

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

AL CLIMATOLOGY BRANCH
TAC
EATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	JUL

CLASS: ALL WEATHER

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

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	.4	.7	.6	.2								[illegible]	6.2
NNE	.5	.9	.1									1.5	4.5
NE	.7	1.1	.5									2.3	4.[illegible]
ENE	.5	.2	.1									1.0	3.4
E	.1	.5										.6	4.[illegible]
ESE	.4	.6	.2									1.2	4.3
SE	.2	.4	.2									.9	5.6
SSE	2.9	2.[illegible]	.2	.1								5.5	3.7
S	5.3	3.6	1.2	.4								10.7	4.4
SSW	1.3	3.2	1.8	.1								7.5	5.4
SW	3.2	5.5	1.3	.5								12.5	5.[illegible]
WSW	2.8	4.1	1.8	.2								8.9	4.[illegible]
W	4.5	7.8	1.2	.1								13.7	4.4
WNW	3.1	5.3	2.3	.5								11.1	5.2
NW	1.[illegible]	1.6	1.1	.6								4.3	6.3
NNW	1.[illegible]	.4	.2	.7								2.3	6.4
VARBL													
CALM												19.2	
	2[illegible].2	31.4	13.2	3.5								100.[illegible]	4.[illegible]

TOTAL NUMBER OF OBSERVATIONS 41[illegible]

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

AL CLIMATOLOGY BRANCH
LFC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
5[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	JUL

CLASS: ALL WEATHER

HOURS (L.S.T.): [illegible]

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	.4	1.2	.4								.5	7.2
NNE	1.4	.9	.5									2.7	4.6
NE	.1	1.2	.9									.2	4.2
ENE	.1	.[illegible]	.4									1.0	5.1
E	.2	.2	.5	.1								1.0	5.1
ESE	.5	.5	.6									1.6	5.5
SE	.5	1.9	.6									3.1	4.7
SSE	.1	1.5	.9									2.2	5.[illegible]
S	1.4	3.3	2.0	.2								6.9	5.[illegible]
SSW	1.0	1.5	3.2	.2								6.1	6.7
SW	2.0	5.9	4.3	.6								12.9	5.2
WSW	3.2	6.4	3.1	.1								12.9	5.1
W	2.5	6.1	3.8	.4								13.5	5.5
WNW	1.1	4.1	3.5	1.1								9.8	6.9
NW	1.2	2.1	2.6	.9								6.8	7.0
NNW	.5	1.2	1.1	.6								3.5	7.1
VARBL													
CALM												9.0	
	13.3	38.1	29.2	4.1								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 647

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

AL CLIMATOLOGY BRANCH
TAC
ATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
54	PHELPS-COLLINS/ALPENA MI	73-81	JUL

CLASS: ALL WEATHER

HOURS (L.S.T.): 19[illegible]-11[illegible]

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	1.5	2.8	2.6								7.3	[illegible]
NNE	.5	1.5	1.6	.1								3.7	6.[illegible]
NE	.2	1.5	.7									2.0	6.[illegible]
ENE		1.[illegible]	.9	.2								2.1	7.4
E	.1	1.1	.9	.2								2.3	7.[illegible]
ESE	.1	1.4	1.7	.6								3.8	7.6
SE	1.1	1.[illegible]	1.5	.4								4.5	6.1
SSE	.5	.7	2.0	.2								3.4	6.
S	.1	1.5	3.8	1.7	.1							7.5	8.1
SSW	.2	1.1	3.0	.4								4.7	7.7
SW	.4	2.7	5.4	1.0	.2							9.7	8.1
WSW	.5	3.3	7.1	1.5								14.5	7.[illegible]
W	.7	1.8	5.0	1.1								8.7	7.7
WNW	.5	3.1	4.1	3.0								10.5	8.[illegible]
NW	.5	1.7	3.7	1.6								7.6	8.[illegible]
NNW	.5	.5	1.6	2.7	.1							5.4	9.9
VARBL													
CALM												.2	
	5.5	20.4	46.9	17.4	.5							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS [illegible]

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

AD-A116 099 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
PHELPS-COLLINS, ALPENA, MICHIGAN. REVISED UNIFORM SUMMARY OF SU--ETC(U)
MAY 82

UNCLASSIFIED USAFETAC/DS-82/031 SBI-AD-E850 176 NL

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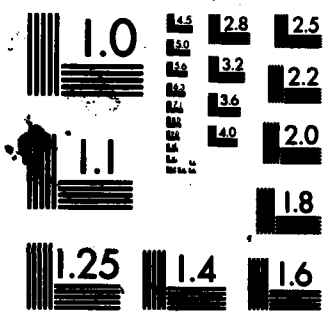


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

C39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 75-81 (YEARS) JUL (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	.7	4.8	3.1								8.9	9.7
NNE		1.0	1.6	.1								2.7	7.4
NE		.7	1.2	.6								2.6	8.0
ENE	.1	.9	.5	.1								1.6	6.3
E		1.6	3.5	1.0								6.1	8.2
ESE	.1	1.0	7.1	2.2								10.4	9.1
SE	.4	.9	3.7	1.6								6.5	8.7
SSE	.1	.7	.6	.9								2.3	9.0
S	.4	.9	2.9	2.3	.1							6.6	9.4
SSW		1.2	1.5	1.2	.1							4.0	9.3
SW		1.2	3.5	1.1								5.9	8.9
WSW	.2	1.8	4.6	2.7								9.4	8.9
W	.5	2.1	5.0	3.2	.1							10.9	8.9
WNW	.1	1.5	3.8	2.8	.1							8.3	9.7
NW		1.1	3.1	3.8								7.6	10.3
NNW		.6	1.3	3.7	.5							6.1	11.8
VARBL													
CALM												.1	
	2.5	16.8	48.8	30.0	1.0							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 818

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

1135

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 75-81 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 1500-1700 (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	.2	.7	4.0	2.4	.2							7.7	9.8
NNE		1.1	2.2	.7								4.0	8.4
NE		.5	1.2	.4								2.1	8.2
ENE	.2	1.0	1.2	.4								2.8	7.7
E		1.0	3.3	1.7								6.0	9.1
ESE		2.0	8.0	4.9								14.9	9.6
SE	.5	.7	5.1	3.7								10.0	9.3
SSE	.2	.2	1.8	1.0								3.3	9.0
S	.1	.2	2.0	2.3								4.6	10.6
SSW	.1	.4	.9	1.3								2.7	9.9
SW	.2	.5	2.7	1.3		.1						4.9	9.5
WSW	.4	.9	2.7	1.3	.2							5.5	9.0
W		1.5	3.5	3.3	.1							8.4	9.7
WNW	.2	1.1	2.6	2.1	.2							6.2	9.4
NW	.1	1.3	3.5	3.3	.6							8.7	10.4
NNW	.2	.4	2.3	5.1	.1							8.2	11.3
VARBL													
CALM												.1	
	2.7	13.4	40.8	35.2	1.6	.1						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 820

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.1	1.1	3.3	2.0								6.6	9.3
NNE	.1	.6	.6	.7								2.1	8.3
NE	.2	1.4	.9	.2								2.7	6.4
ENE	.4	.9	.4									1.6	5.4
E	.5	1.5	1.9	.1								4.0	6.4
ESE	1.0	5.7	6.3	.7								13.7	6.8
SE	1.0	5.6	6.1	1.0								13.6	6.8
SSE	.5	2.5	2.5									5.9	6.5
S	.5	1.7	3.6	.9								6.7	8.1
SSW	.1	1.0	1.7	.9								3.7	8.9
SW	.2	1.2	2.1	.1								3.7	6.8
WSW	.6	1.5	1.9	.5								4.8	7.0
W	.6	2.7	2.2	1.1	.2							6.9	7.5
WNW	.5	2.2	3.7	1.4	.2	.1						8.9	8.6
NW		2.1	3.6	1.6	.1							7.8	9.0
NNW		1.1	3.7	2.6								7.8	9.5
VARBL													
CALM												1.6	
	6.8	32.8	48.9	10.1	.6	.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 849

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

1136

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	1.6	1.5	.1								3.7	5.9
NNE	.4	.4	.2									1.0	4.8
NE	.6	.7	.1	.2								1.7	5.3
ENE	1.3	.5	.1									2.0	3.6
E	1.0	.4	.1									1.5	3.4
ESE	.9	1.3		.1								2.3	4.3
SE	1.5	2.3	1.1									4.9	5.0
SSE	2.0	3.7	.6	.1								6.4	4.8
S	3.9	6.3	2.5	.1								12.8	4.9
SSW	1.8	2.9	1.5									6.3	5.1
SW	1.5	3.3	1.2									6.0	4.8
WSW	2.2	2.1	.7	.1								5.2	4.4
W	2.8	5.2	1.3	.9								10.2	5.2
WNW	1.6	5.2	2.1	.4								9.2	5.4
NW	1.2	2.9	3.3	.9								8.3	6.7
NNW	.5	1.5	1.6	.4	.1							4.0	6.8
VARBL													
CALM												14.6	
	23.7	40.2	18.0	3.3	.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 815

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

72659 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	.9	2.8	1.4	.0							5.1	8.7
NNE	.4	.9	.9	.2								2.5	6.5
NE	.4	.9	.7	.2								2.2	6.0
ENE	.4	.7	.5	.1								1.6	5.9
E	.4	.8	1.3	.4								2.9	7.2
ESE	.5	1.6	3.0	1.1								6.2	7.9
SE	.7	1.8	2.4	.8								5.7	7.1
SSE	1.1	1.4	1.1	.3								4.3	5.7
S	1.6	2.8	2.5	1.0	.0							7.8	6.7
SSW	.7	1.8	1.9	.5	.0							4.9	6.8
SW	1.2	3.1	2.8	.6	.0	.0						7.8	6.8
WSW	1.8	3.4	3.0	.8	.0							9.1	6.2
W	2.0	4.5	3.1	1.3	.1							10.9	6.8
WNW	1.0	3.5	3.8	1.5	.1	.0						9.1	7.3
NW	.6	1.8	2.8	1.6	.1							6.9	8.3
NNW	.4	.8	1.6	2.1	.1							5.0	9.4
VARBL													
CALM												7.9	
	14.6	31.2	32.9	13.9	.5	.0						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 6506

USAFETAC FORM AA 04 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	AUG

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	.6	.6	.9	.1								2.2	5.8
NNE		.2	.7									1.0	7.6
NE	.2	.4	.2	.1								1.0	5.8
ENE	.6	.6	1.1									2.3	5.9
E	.6	.4	.4									1.4	4.8
ESE	.6	.9	.1									1.6	3.8
SE	1.1	1.2	.4	.1								2.8	4.7
SSE	2.6	2.3	1.4	.1								6.4	4.4
S	3.7	5.9	2.2	.4								12.2	5.0
SSW	1.1	3.7	1.1	.1								6.0	5.1
SW	4.2	4.2	1.0		.1							9.5	4.3
WSW	2.8	5.1	.6									8.5	4.1
W	3.6	6.9	1.4	.2								12.1	4.6
WNW	1.7	4.7	1.2	.1								7.8	4.9
NW	.9	1.4	.9									3.1	4.9
NNW	.6	.9	.7	.2								2.5	6.5
VARBL													
CALM												19.5	
	25.1	39.4	14.3	1.6	.1							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

14659U (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.6	.6	.5	.1								2.9	4.8
NNE	.1	.4	.4									.9	6.1
NE	.6	.8	.5	.1								2.0	5.4
ENE	.6	.6	.4									1.8	4.9
E	.4	.5	.9									1.8	6.3
ESE	.6	.4	.4	.1								1.5	5.2
SE	.5	.4	1.0									1.9	5.7
SSE	1.1	2.0	1.1									4.3	4.6
S	2.1	4.0	3.1	.9	.1							10.3	6.2
SSW	2.0	3.5	2.9	..	....							8.4	5.3
SW	2.8	5.0	1.0									8.8	4.4
WSW	4.1	4.1	.9									9.2	3.9
W	5.4	7.2	2.8	.3								15.6	4.5
WNW	3.0	2.0	1.3	.3								6.5	4.6
NW	1.3	1.1	1.1	....								3.5	5.0
NNW	.3	.8	.1									1.1	4.4
VARBL													
CALM												19.6	
	24.4	33.5	18.3	1.8	.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 796

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

1138

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (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	1.0	.5	.4	.1								2.0	4.9
NNE	.5	.6	.7	.4								2.2	6.8
NE	.2	.1	.6	.2								1.2	7.8
ENE	.4	.5	.4									1.2	5.5
E	.6	.6	1.9	.1								3.2	6.7
ESE	.4	.2	.4	.1								1.1	5.9
SE	.7	.7	1.5	.2								3.2	6.5
SSE	1.9	1.7	.4	.2								4.2	4.5
S	2.6	2.8	2.2	1.1								8.8	6.2
SSW	1.2	3.3	1.9	.4								6.8	5.9
SW	3.5	5.8	3.6	.1								13.0	5.1
WSW	3.2	5.1	1.6	.1								10.0	4.8
W	5.1	6.1	3.1	.1								14.3	4.7
WNW	2.3	4.0	2.6	.4	.1							9.4	5.8
NW	1.0	2.0	1.5	.2								4.7	6.1
NNW	.4	1.1	.5	.1								2.1	5.4
VARBL													
CALM												12.5	
	25.0	35.2	23.1	5.1	.1							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 809

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	AUG

CLASS: ALL WEATHER

HOURS (L.S.T.): 0900-1100

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	2.1	1.7	.9								5.2	7.1
NNE	.4	.7	1.0	.1								2.2	6.6
NE	.4	1.7	1.4	.6								4.1	7.2
ENE	.4	1.1	1.0									2.5	6.2
E	.4	1.7	1.7	.1								4.0	6.6
ESE		1.0	1.1	.2								2.4	7.5
SE	1.0	1.6	2.4	.2								5.2	6.3
SSE	.4	1.2	2.0	.5								4.1	7.5
S	1.4	4.0	4.2	1.1								10.7	6.8
SSW	.2	1.9	2.5	1.1								5.7	8.1
SW	.6	2.6	6.1	1.1								10.4	7.8
WSW	.9	3.6	6.0	.7								11.2	7.2
W	1.2	2.9	6.2	1.1								11.4	7.5
WNW	1.1	3.0	3.0	1.7								8.8	7.4
NW	.2	1.9	3.1	1.9								7.1	8.7
NNW	.1	1.6	1.7	.7								4.2	7.9
VARBL													
CALM												.6	
	8.2	32.7	45.1	12.3								100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 804

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

1139

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	1.1	2.6	1.7								5.7	8.8
NNE	.1	.6	1.5	.6								2.8	8.3
NE	.2	1.1	2.0	.2								3.6	7.4
ENE		.4	1.4	.1								1.9	8.0
E	.4	.9	3.6	.2								5.1	8.0
ESE	.2	2.1	5.2	1.9								9.4	8.3
SE	.4	1.7	5.3	1.6								9.0	8.5
SSE		1.4	1.4	.7								3.5	8.0
S	.6	1.0	3.0	2.0	.1							6.7	8.8
SSW	..	1.5	2.6	2.0	..							6.1	9.1
SW	.1	1.9	5.2	1.1								8.3	8.5
WSW	.2	1.6	4.8	2.7								9.4	9.0
W	.6	2.1	3.8	3.0								9.5	8.8
WNW	.4	.9	3.5	2.8	.2							7.8	9.7
NW	..	1.1	1.9	2.3	..							5.3	9.7
NNW	.4	.6	2.1	2.1	.1							5.3	9.4
VARBL													
CALM												.7	
	4.0	19.9	49.7	25.2	.5							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 809

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

(6639) PHELPS-COLLINS/ALPENA MI — 73-81 — AUG

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 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	%	MEAN WIND SPEED
N		1.0	3.7	2.3	.1							7.2	9.7
NNE	.1	.9	2.1	.2								3.3	7.6
NE	.1	1.2	1.5	.5								3.3	7.7
ENE		.7	2.5	.1								3.3	8.0
E	.2	1.1	4.9	.7	.1							7.2	8.3
ESE	.1	1.4	11.1	3.6								16.2	9.0
SE	.1	1.8	7.0	2.7								11.2	8.8
SSE	.2	.4	1.1	.6								2.3	8.2
S	.2	1.2	2.7	1.9								6.0	8.9
SSW	.1	1.4	.7	1.4	.2							3.8	9.5
SW		.6	3.2	1.5	.1							5.4	9.7
WSW	.1	1.0	8.1	1.8								6.5	8.7
W	.1	1.5	4.4	2.0	.2							8.3	9.0
WNW	.1	.5	2.7	2.8								6.2	10.2
NW	.2	.5	1.5	2.3								4.6	10.4
NNW	.1	.5	1.6	2.3								4.6	10.0
VARBL													
CALM												.5	
	2.1	15.2	58.9	26.8	.9							100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
94391	PHELPS-COLLINS/ALPENA MI	73-81	AUG

CLASS: ALL WEATHER

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

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	.2	1.2	2.8	1.2								5.6	8.2
NNE	.9	1.6	1.0	.1								3.6	5.4
NE	.5	3.0	.9									4.3	5.4
ENE	.4	1.7	.6	.1								2.8	5.5
E	1.1	1.6	1.5	.1								4.3	5.6
ESE	.6	5.1	4.4	.4								10.5	6.6
SE	2.1	6.4	5.6	.9								14.9	6.3
SSE	1.5	2.8	1.9	.5								6.7	5.9
S	1.6	3.3	3.0	.6								8.5	6.2
SSW	1.0	1.4	1.1	.5	.1							4.1	6.5
SW	.5	1.5	2.0	.5								4.4	7.1
WSW	.4	2.2	1.2	.4								4.2	6.3
W	1.1	2.5	3.0	.2								6.8	6.3
WNW	1.2	2.2	2.6	1.0	.1							7.2	7.2
NW	.1	1.1	1.2	1.1	.1							3.7	8.9
NNW	.4	.9	2.6	2.3								6.2	9.3
VARBL													
CALM												2.2	
	13.6	38.5	35.3	10.0	.4							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 810

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible]39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.2	.9	.9	.1								2.1	6.7
NNE	.6	.6		.1								1.4	4.0
NE	1.1	.5	.5									2.1	4.5
ENE	.2	.6	.6									1.5	5.8
E	1.0	.5	.2									1.9	3.7
ESE	.9	.7	.1									1.7	4.0
SE	2.7	3.1	1.2	.5								7.5	4.9
SSE	3.6	4.6	1.1	.5								9.8	4.7
S	4.4	7.2	2.5	.5								14.6	4.8
SSW	2.7	1.6	1.2									5.6	4.2
SW	2.0	3.7	.5	.1								6.3	4.5
WSW	2.2	3.0	.6									5.8	4.3
W	2.2	3.1	.9									6.2	4.4
WNW	1.7	3.8	1.9	.6								8.0	5.7
NW	1.0	2.0	1.9	.5	.1							5.4	6.8
NNW	.5	1.0	1.0	.1								2.6	6.0
VARBL													
CALM												17.7	
	27.2	36.9	15.1	3.1	.1							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	AUG

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.6	1.0	1.7	.8	.0							4.1	7.7
NNE	.3	.7	.9	.2								2.2	6.7
NE	.4	1.1	.9	.2								2.7	6.5
ENE	.3	.8	1.0	.0								2.2	6.4
E	.6	.9	1.9	.2	.0							3.6	6.9
ESE	.4	1.5	2.9	.8								5.6	7.6
SE	1.1	2.1	3.1	.8								7.0	6.9
SSE	1.4	2.1	1.3	.4								5.2	5.6
S	2.1	3.7	2.9	1.1	.0							9.7	6.3
SSW	1.1	2.3	1.7	.7	.0							5.8	6.5
SW	1.7	3.2	2.8	.6	.0							8.3	6.2
WSW	1.7	3.2	2.5	.7								8.1	6.0
W	2.4	4.0	3.2	.9	.0							10.5	6.0
WNW	1.5	2.6	2.3	1.2	.1							7.7	6.9
NW	.6	1.4	1.6	1.1	.0							4.7	7.8
NNW	.3	.9	1.3	1.0	.0							3.6	8.2
VARBL													
CALM												9.2	
	16.6	31.4	32.0	10.6	.3							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 6458

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

(CSV) PHELPS-COLLINS/ALPENA MI — 73-81 — SEP

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 0000-0200

CLASS — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.0	1.7	.1								3.6	6.0
NNE	.4	.6	.4	.4								1.8	6.6
NE	.4	.4	.4	.3								1.4	6.9
ENE	.3	.6	.6	.1								1.7	6.7
E		.8	.6	.1								1.5	6.8
ESE	.4	.5	.9	.1								1.9	6.9
SE	1.3	.8	.8	.6	.1							3.6	6.6
SSE	1.2	1.9	.6	.1								3.8	4.6
S	3.6	3.7	2.4	.9								10.6	5.4
SSW	2.7	1.5	2.0	.3								6.5	5.0
SW	1.8	3.2	2.7	.6								8.3	6.0
WSW	3.5	4.9	1.4	.4								10.1	4.7
W	3.6	7.8	2.7	.1								14.2	5.0
WNW	2.2	4.6	2.3	.5	.5							9.8	6.0
NW	.8	1.3	2.2	.8								5.0	7.0
NNW	.4	.5	.6	.4								1.9	6.8
VARBL													
CALM												14.2	
	23.0	38.1	22.8	5.9	.6							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 782

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

1162

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
4 5390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

CLASS: ALL WEATHER

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

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	.6	.8	1.0	.1								2.6	6.1
NNE	.6	.4	1.1	.1								2.3	6.6
NE	.9	1.1	1.0	.1								3.2	5.3
ENE	.5	.5		.1								.9	4.1
E	.5	.4	.4	.5								1.8	7.1
ESE	.8	.6	.3	.5								2.2	6.4
SE	.3	1.1	1.0	1.0	.1							3.6	8.8
SSE	.9	1.3	.5									2.7	4.7
S	2.7	3.7	2.7	.9								10.0	5.8
SSW	1.4	3.2	1.8	.6		.1						7.2	6.2
SW	2.9	3.7	2.0	.4								9.1	5.2
WSW	2.6	3.6	2.7									8.8	5.3
W	5.0	7.0	2.0	.6								14.7	4.9
WNW	.8	4.1	2.4	.6								7.9	6.4
NW	1.0	1.8	1.7	.6	.1							5.2	6.6
NNW	1.1	.6	1.1	.5								3.4	6.1
VARBL													
CALM												14.6	
	22.6	33.7	21.8	6.9	.3	.1						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 783

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible] PHELPS-COLLINS/ALPENA MI 73-81 SEP
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	.6	1.1	1.9	.8								4.4	7.4
NNE	.4	.8	.8	.1								2.0	6.1
NE	.3	.8	.9	.3								2.1	7.0
ENE	.1	.4	.5									1.0	6.4
E	..	.4	.8	.5								1.6	9.2
ESE	.3	.3	.8	1.1								2.4	9.8
SE	.3	.9	1.3	.5								2.9	7.6
SSE	.8	.8	.6	.1								2.3	5.6
S	2.0	2.9	2.7	1.1	.1							8.8	6.6
SSW	1.5	2.7	1.9	.4								6.4	5.9
SW	2.7	4.0	3.2	.6								10.5	5.7
WSW	2.3	4.0	2.8	.1								9.2	5.6
W	3.4	6.7	2.9	.8								13.8	5.4
WNW	2.5	5.1	2.8	.5								10.9	5.7
NW	2.5	1.4	2.3	1.3								7.4	6.4
NNW	.4	1.1	.8	.4								2.7	6.5
VARBL													
CALM												11.5	
	19.9	33.2	26.6	8.6	.1							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 792

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

1143

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible] PHELPS-COLLINS/ALPENA MI 73-81 SEP
STATION STATION NAME YEARS MONTH

ALL WEATHER 0900-1100
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	.4	1.7	2.6	1.6								6.2	8.2
NNE	.5	.8	2.1	.6								4.0	7.5
NE	.3	1.0	1.2	.8								3.2	8.2
ENE	.1	.6	.5	.5								1.6	7.9
E	.6	.3	1.0	.6	.1							2.7	7.7
ESE	.1	.6	2.5	1.0	.1							4.4	9.1
SE	.1	1.3	1.2	1.0								3.6	8.3
SSE	.1	1.2	1.4	.6	.1							3.5	8.0
S	.4	1.8	3.1	1.6								6.9	8.4
SSW	.6	1.7	2.2	1.6								6.1	8.0
SW	.9	3.4	3.6	2.1								10.0	7.7
WSW	1.0	2.9	6.0	1.8	.1							11.8	7.6
W	.8	2.2	4.2	2.6								9.7	8.3
WNW	.4	2.1	6.4	2.1	.1							11.0	8.5
NW	.8	1.9	2.6	2.6	.5							8.4	9.2
NNW	.5	1.7	1.9	1.3	.1							5.6	8.1
VARBL													
CALM												1.2	
	7.8	25.2	42.2	22.4	1.3							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 771

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

LOCAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

1234V (STATION)	PHELPS-COLLINS/ALPENA MI (STATION NAME)	73-81 (YEARS)	SEP (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	2.5	3.7	2.3								9.8	8.6
NNE	.1	1.1	1.9	.6								3.3	7.8
NE	.3	.9	.8	.9								2.8	8.0
ENE		.1	.6	.9								1.6	10.5
E		.6	1.3	1.1	.1							3.4	9.8
ESE	.1	.8	3.8	1.9								6.6	9.3
SE	.3	.8	2.8	1.3								5.3	9.2
SSE	.3	1.3	2.0	.6	.1							4.3	7.9
S	.3	1.0	4.2	1.8								7.2	8.6
SSW	.1	1.4	1.6	2.5								5.3	10.0
SW	.1	1.8	3.8	2.2	.1							7.2	9.3
WSW	.1	1.8	4.1	2.8	.1							8.5	9.8
W	.6	1.5	3.8	3.0	.6							9.3	9.5
WNW	.1	1.9	3.3	4.6	.5							10.4	10.0
NW	.	.8	2.3	5.3	.3							8.6	11.1
NNW	.3	.6	2.9	2.5		.1						6.5	9.8
VARBL													
CALM												1.1	
	2.8	17.7	42.5	38.0	1.6	.1						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 789

1164

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

CLASS: ALL WEATHER

HOURS (L.S.T.): 1500-1700

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	1.5	5.9	3.1	.1							10.9	9.1
NNE	.3	.3	1.3	.8								2.6	8.3
NE	.1	1.0	1.8	.5								3.5	7.6
ENE	.3	.6	1.5	.6	.1							3.2	8.7
E	.1	1.0	2.2	1.4	.1							4.9	9.3
ESE		1.4	5.1	3.2								9.7	9.4
SE	.1	2.2	4.3	1.7								8.3	8.4
SSE		.3	1.2	.6								2.0	9.3
S	.3	.6	2.9	2.7								6.5	9.9
SSW	.4	.8	1.8	1.3	.1							4.3	8.9
SW	.1	.9	2.8	2.3								6.1	9.6
WSW	.3	1.0	2.8	1.9								6.0	9.2
W		1.2	3.5	2.8	.1							7.5	10.0
WNW		1.7	2.9	3.6	.1							8.3	9.7
NW	.4	1.4	2.9	4.5								9.2	9.8
NNW		.4	2.8	2.8	.3							6.3	10.6
VARBL													
CALM												.6	
	2.6	16.2	45.8	33.8	1.0							100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 782

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible] (STATION) PHELPS-COLLINS/ALPENA #1 (STATION NAME) 73-81 (YEARS) SEP (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	2.0	2.6	.1								5.2	6.7
NNE	.5	1.0	1.1	.3								2.9	6.3
NE	.6	1.5	.4	.1								2.7	5.0
ENE	.6	2.0	.6	.1								3.4	5.7
E	.9	1.1	.5	.5								3.1	6.1
ESE	.9	2.4	2.6	.5	.1							6.5	6.9
SE	.9	2.9	3.1									6.9	6.3
SSE	1.1	2.8	2.4									6.4	5.8
S	2.3	3.7	3.8	.3								10.1	5.9
SSW	.1	2.6	.6	.6								4.0	6.9
SW	.9	2.7	1.4	.6								5.6	6.2
WSW	1.0	2.0	.9	.5								4.5	6.0
W	1.5	4.0	2.4	1.1								9.1	6.4
WNW	1.5	4.0	3.2	.9								9.6	6.4
NW	.6	3.7	2.4	2.0								8.8	7.5
NNW	.8	1.5	2.0	1.5	.1							6.0	8.0
VARBL													
CALM												5.4	
	14.9	40.1	30.1	9.3	.3							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 784

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

1145

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

CLASS: ALL WEATHER

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

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	.9	.1								2.7	5.6
NNE	.9	.6	.8	.3								2.6	5.6
NE	.3	1.1	.6									2.0	5.6
ENE	.1	.8	.6									1.5	6.2
E	.5	1.0	.6	.4								2.6	6.4
ESE	.3	.9	1.1	.1								2.4	6.7
SE	.4	1.4	1.3	.4								3.4	6.7
SSE	.8	2.7	.6	.1								4.2	4.9
S	3.6	6.0	3.1	.4	.3							13.3	5.4
SSW	1.5	2.6	1.4	.6								6.1	6.0
SW	1.7	2.9	1.3	.9								6.8	5.9
WSW	2.4	3.4	1.1	.1								7.1	4.7
W	3.2	8.5	1.9	.3								13.9	4.9
WNW	1.1	4.1	2.3	.4								7.9	6.0
NW	1.1	2.6	2.2	1.5								7.4	7.0
NNW	.6	1.0	1.3	.6								3.6	7.3
VARBL													
CALM												12.5	
	19.4	40.4	21.2	6.2	.3							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 784

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
726398	PHELPS-COLLINS/ALPENA MI	73-81	SEP

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.5	1.4	2.6	1.0	.0							5.7	7.8
NNE	.5	.7	1.1	.4								2.7	6.9
NE	.4	1.0	.9	.4								2.6	6.8
ENE	.3	.7	.6	.3	.0							1.9	7.2
E	.3	.7	.9	.7	.0							2.7	8.0
ESE	.4	.9	2.1	1.1	.0							4.5	8.4
SE	.4	1.4	1.9	.8	.0							4.6	7.7
SSE	.6	1.5	1.2	.3	.0							3.7	6.2
S	1.9	2.9	3.1	1.2	.0							9.2	6.7
SSW	1.1	2.0	1.7	1.0	.0	.0						5.7	7.0
SW	1.4	2.8	2.6	1.2	.0							7.9	6.8
WSW	1.6	3.0	2.7	.9	.0							8.2	6.5
W	2.3	4.9	2.9	1.8	.1							11.5	6.4
WNW	1.1	3.4	3.2	1.6	.1							9.5	7.4
NW	.9	1.9	2.3	2.3	.1							7.5	8.3
NNW	.5	.9	1.7	1.3	.1	.0						4.5	8.4
VARBL													
CALM												7.6	
	14.2	30.1	31.5	15.9	.7	.0						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 6267

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

1166

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	OCT

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	.9	1.3	1.1	.8								4.0	7.1
NNE	.3	.4	1.1	.1								1.9	7.3
NE	.4	.6	.5	.4								1.9	6.9
ENE	.1	.3	.3	.1								.8	6.5
E	.3	.3	.1	.5								1.1	8.1
ESE	.1	.1	.4	.9	.1							1.6	11.1
SE	.8	1.6	1.1	.5								4.0	6.5
SSE	1.0	1.8	1.4	.5								4.6	5.9
S	2.3	4.6	3.8	1.8								12.4	6.4
SSW	1.3	2.3	2.1	.4								6.0	6.2
SW	1.6	3.0	1.9	.9								7.4	6.2
WSW	2.0	3.5	1.8	.8								8.0	5.8
W	2.4	7.6	3.5	.8								14.3	5.8
WNW	1.4	4.4	3.6	1.9								11.3	7.1
NW	1.0	1.3	1.0	1.0								4.3	7.1
NNW	1.0	.6	1.3	.5								3.4	6.5
VARBL													
CALM												13.3	
	16.6	33.5	24.9	11.6	.1							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 800

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

CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
639.	PHELPS-COLLINS/ALPENA MI	73-81	OCT

CLASS: ALL WEATHER

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

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	.4	.6	.6	.5								2.1	7.7
NNE	.8	.1	.8	.4								2.0	6.6
NE	.6	.9	.1	.6								2.3	6.7
ENE	.5		.5	.5								1.5	7.8
E	.4	.1										.5	5.0
ESE	.5	.5	.5	.4	.3							1.9	8.8
SE	1.0	.6	.9	.1								2.6	6.0
SSE	1.5	2.0	1.0	.5								5.0	5.7
S	2.9	3.9	4.1	.9								11.8	6.2
SSW	1.4	3.4	2.4	.3								7.4	5.8
SW	1.6	2.4	2.8	.5								7.3	6.2
WSW	1.6	2.8	2.1	.9								7.4	6.1
W	2.6	7.3	3.3	.6	.1							13.9	5.6
WNW	1.0	4.6	4.6	.9								11.2	6.7
NW	1.1	2.1	2.3	.5								6.0	6.4
NNW	.6	.8	.6	.6								2.6	7.0
VARBL													
CALM												14.4	
	18.6	31.9	26.6	8.2	.4							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 797

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

1167

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5		1.1	.6								2.1	5.2
NNE	.2	.5	1.0	.2								2.0	7.9
NE	.4	.4	.4	.2								1.3	6.5
ENE	.4	.4	.2	.5	.1							1.6	6.2
E	.5	.6	.7	.1	.2							2.2	7.1
ESE	.1	.2	.4	.4	.1	.1						1.3	11.5
SE	.4	.7	1.3	.4								2.8	7.1
SSE	2.0	2.0	1.5	.2								5.6	5.4
S	1.8	4.0	4.2	2.5								12.5	7.2
SSW	2.0	3.6	2.6									8.1	5.4
SW	.9	2.0	2.3	1.1								6.2	7.2
WSW	1.3	4.5	2.8	1.3								10.0	6.7
W	2.1	4.3	5.1	.2	.2							12.0	6.3
WNW	1.6	5.0	3.6	.9	.1							11.2	6.4
NW	.7	2.3	2.3	1.0	.1							6.5	7.5
NNW	.5	.5	.9	1.0								2.8	8.1
VARBL													
CALM												11.6	
	15.3	31.0	30.3	10.7	1.0	.1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 816

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

[illegible] CLIMATOLOGY BRANCH
[illegible] TAC
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

37 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
OCT — MONTH

ALL WEATHER — CLASS
0900-1100 — 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	.2	.4	2.1	1.9	.5							5.6	10.0
NNE	.1	.1	1.1	.9								2.2	9.2
NE	.1	1.0	1.0	1.2	.1							3.5	9.1
ENE		.5	.5	.4								1.4	8.8
E		.1	1.0	.5								2.6	9.2
ESE	.1	1.0	1.6	1.2								4.0	8.5
SE	1.0	1.1	1.5	1.6	.1							5.3	7.9
SSE	.5	1.4	1.6	1.0	.1							4.6	8.2
S	.6	2.5	6.7	4.1								13.9	8.8
SSW	.1	1.1	3.5	1.2								6.6	8.2
SW	.5	1.4	4.0	1.2	.2							7.3	8.6
WSW	1.0	3.1	3.1	2.1	.1							9.4	7.8
W	.2	2.2	6.1	1.1								9.7	8.0
WNW	.2	1.9	4.2	2.8	.5							9.7	9.6
NW	.2	1.1	2.4	3.0	.2							7.5	9.6
NNW	.4	.9	1.0	2.4	.4							5.0	10.3
VARBL													
CALM												2.4	
	5.4	22.0	41.2	26.6	2.4							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 808

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
14859	PHELPS-COLLINS/ALPENA MI	73-81	OCT

CLASS: ALL WEATHER

HOURS (L.S.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	.2	1.0	2.5	3.1	.4							7.2	10.4
NNE		.6	1.2	.9								2.7	8.7
NE	.1	.4	.4	.7								1.6	9.2
ENE	.1	.5	.4	.4								1.4	7.5
E	.2	.5	1.6	1.0	.1							3.5	9.3
ESE	.2	1.9	2.1	2.6								6.8	8.9
SE	.1	.6	2.7	3.0								6.5	10.3
SSE	.2	1.0	1.5	.7	.1							3.6	8.2
S	.1	1.1	4.7	4.8								10.8	10.0
SSW		.7	3.0	1.7								5.5	9.4
SW		.2	3.1	2.4	.1							5.8	10.5
WSW	.2	1.2	3.6	2.9	.5							8.4	10.0
W		1.7	4.3	2.7								8.8	9.4
WNW		.9	3.1	4.6	.6							9.2	11.1
NW	.5	.9	3.3	4.6	.6							9.9	10.9
NNW	.2	.7	2.7	3.7	.4							7.8	10.6
VARBL													
CALM												.5	
	2.5	14.0	40.3	39.8	2.9							100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 806

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

14739 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
OCT — 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	.2	1.0	4.9	3.6	.1							9.8	9.6
NNE	.4	1.0	.9	.6								2.8	7.3
NE	.1	.5	2.1	.7								3.4	8.7
ENE	.1	.9	.5	.2								1.7	6.8
E	.2	1.3	3.2	.4								5.1	7.7
ESE	.4	1.5	5.3	2.9								10.0	8.9
SE		1.5	3.4	2.0	.1							7.0	9.2
SSE		.1	1.6	1.1								2.8	10.2
S	.2	1.1	3.3	2.3	.6							7.6	9.9
SSW	.2	.4	2.0	1.7								4.3	9.5
SW	.2	1.0	2.7	1.7								5.6	9.1
WSW	.2	1.0	2.8	2.1	.1							6.2	9.4
W	.4	1.6	3.7	3.1	.2							8.9	9.8
WNW	.1	1.0	3.3	4.3	1.1							9.8	11.2
NW	.1	1.1	2.5	4.0	.5							8.2	10.8
NNW	.1	.6	2.7	2.7								6.1	10.1
VARBL													
CALM												.4	
	3.2	15.8	44.7	33.5	2.8							100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 816

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

1169

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

(39) PHELPS-COLLINS/ALPENA MI — 73-81 — OCT

STATION — STATION NAME — YEARS — MONTH

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	1.7	1.2	.6	.1							5.8	7.9
NNE	.5	.7	.7	.1								2.1	6.2
NE	.6	.9	.5	.1								2.1	5.8
ENE	1.0	.9	.4	.4								2.6	5.6
E	1.1	1.4	.2	.1								2.8	4.5
ESE	.9	3.1	.7	.5								5.2	5.9
SE	1.4	2.7	3.2	.9								8.1	6.5
SSE	.7	3.1	2.6	.9	.1							7.4	6.9
S	1.1	3.8	4.2	1.6	.1							10.8	7.4
SSW	.9	1.5	2.1	.5								4.9	7.1
SW	1.6	1.5	2.9	.7								6.8	6.6
WSW	.7	1.0	1.4	.7	.1							3.9	7.4
W	1.0	4.4	3.4	1.4								10.2	6.9
WNW	.9	3.2	4.1	2.3	.4							10.8	8.3
NW	.4	2.7	4.8	1.4								9.2	7.9
NNW	.1	.7	1.6	.7								3.2	8.4
VARBL													
CALM												6.1	
	12.9	33.2	34.0	12.9	.9							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 814

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

CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION: SY — STATION NAME: PHELPS-COLLINS/ALPENA MI — YEARS: 73-81 — MONTH: OCT

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

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	.4	.6	1.2								2.4	8.5
NNE	.5	.6	.9	.5								2.4	7.3
NE	.7	.7	.8	.5								2.3	6.7
ENE	.6	.2	.2	.1								1.2	5.0
E	.1	.6	.4	.2								1.3	7.1
ESE	.6	.1	.2	.4								1.3	7.0
SE	1.0	1.1	1.3	.5								3.9	6.3
SSE	.9	3.2	1.7	1.5	.2							7.4	7.2
S	2.3	5.5	4.5	1.6	.1							14.0	6.6
SSW	.6	1.3	1.7	.6								4.3	7.0
SW	1.3	2.1	1.7	.7								5.9	6.4
WSW	1.5	3.2	1.2	.6								6.5	5.8
W	1.2	6.7	3.3	.9								12.1	6.3
WNW	.7	6.5	3.4	1.1								11.7	6.8
NW	1.0	2.2	3.4	1.2	.1							7.9	7.5
NNW	.1	.7	.7	.9								2.4	8.6
VARBL													
CALM												12.2	
	13.4	35.7	25.8	12.5	.5							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 819

1150

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

...MAL CLIMATOLOGY BRANCH
...FETAC
A... WEATHER SERVICE/MAC

SURFACE WINDS

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

...39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (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	.4	.9	1.8	1.5	.1							4.7	9.1
NNE	.3	.5	1.0	.5								2.3	7.6
NE	.4	.7	.7	.6	.0							2.3	7.5
ENE	.4	.4	.4	.3	.0							1.5	7.0
E	.4	.7	.9	.4	.0							2.4	7.3
ESE	.4	1.0	1.4	1.2	.1	.0						4.0	8.5
SE	.7	1.3	1.9	1.1	.0							5.0	7.7
SSE	.8	1.8	1.6	.8	.1							5.1	7.0
S	1.4	3.3	4.4	2.4	.1							11.7	7.7
SSW	.8	1.9	2.4	.8								5.9	7.1
SW	1.0	1.7	2.7	1.2	.0							6.5	7.5
WSW	1.1	2.5	2.3	1.4	.1							7.5	7.4
W	1.2	4.5	4.1	1.3	.1							11.2	7.0
WNW	.7	3.4	3.7	2.3	.3							10.6	8.2
NW	.6	1.8	2.7	2.1	.2							7.5	8.7
NNW	.4	.7	1.4	1.6	.1							4.2	9.2
VARBL													
CALM												7.6	
	11.0	27.1	33.5	19.5	1.4	.0						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 6476

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.9	1.8	.1								3.5	6.9
NNE	.4	.4	1.0	.3								2.0	6.9
NE	.5	1.0	.5	.5								2.6	6.6
ENE	.3	.1	.3	.5								1.2	8.6
E	.4	.3	.4	.3								1.3	6.3
ESE	.4	.9	1.0	.1								2.4	6.5
SE	.6	1.2	1.8	.4								4.0	6.9
SSE	.8	1.2	.8	.5	.1							3.3	7.0
S	1.5	4.9	4.5	1.8	.3							12.5	7.0
SSW	.8	2.2	2.0	.8								5.8	6.8
SW	.5	3.6	3.3	1.2	.3							8.8	7.5
WSW	.9	3.3	2.9	1.3		.1						8.6	7.3
W	1.8	5.1	5.8	1.3	.8							14.3	7.1
WNW	.9	3.5	3.7	.9								9.0	6.8
NW	.0	.0	2.0	1.8	.1							5.2	9.4
NNW	.4	1.0	2.0	1.5								5.0	8.4
VARBL													
CALM												10.6	
	11.8	30.1	33.9	12.8	1.2	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 782

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7639[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	NOV

CLASS: ALL WEATHER

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

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	.6	.9	1.0	.8								3.3	7.4
NNE	.3	.4	.8	.4								1.9	7.3
NE	.4	1.3	.5	.3								2.4	6.5
ENE	.1	.6	.6									1.4	6.5
E		.1	.9	.6								1.7	9.8
ESE	.3	.1	.6	.3								1.3	7.5
SE	.1	1.4	1.8	.8								4.1	8.4
SSE	1.0	1.5	1.1	.4								4.1	6.3
S	1.7	3.4	4.4	1.3	.5							11.3	7.3
SSW	.9	3.2	2.5	.5								7.1	6.2
SW	1.0	4.1	2.2	.5								7.8	6.1
WSW	.9	4.7	2.9	1.1								9.7	6.8
W	1.7	6.4	4.3	2.2	.4							14.9	7.2
WNW	1.5	4.1	4.1	1.3								10.9	6.6
NW	.4	1.7	1.1	1.9	.1							5.2	8.6
NNW	.8	1.0	.6	.8								3.2	7.3
VARBL													
CALM												10.0	
	11.6	34.8	29.6	13.0	1.0							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 787

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
A[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

639[illegible] (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 0600-0800 (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	.3	1.4	1.5								3.3	10.0
NNE	.1	.4	1.0	.5								2.0	6.5
NE	.1	.4	.3	.6								1.4	8.6
ENE		.9	.8	.6								2.3	8.1
E	.1	.5	.5	.4								1.5	7.8
ESE	.5	.4	1.4	.4								2.7	7.6
SE	.9	.8	1.4	1.4	.1							4.6	8.1
SSE	1.5	1.5	.8	.1	.1							4.1	5.2
S	2.4	2.3	3.7	1.1	.4	.1						10.0	7.4
SSW	.8	2.4	2.0	.9								6.1	6.8
SW	1.1	3.1	3.4	1.1								10.9	6.5
WSW	.9	5.3	3.9	1.4								11.5	6.8
W	1.8	5.1	4.8	2.7	.1							14.4	7.4
WNW	.8	2.8	3.8	1.4								8.7	7.5
NW	.3	.8	1.9	2.2	.1							5.2	9.8
NNW		.8	.5	.8								1.9	9.6
VARBL													
CALM												9.4	
	11.5	29.8	31.6	17.1	.9	.1						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 789

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

0 1152

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

(439) PHELPS-COLLINS/ALPENA MI — 73-81 — NOV

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 0900-1100

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	.4	.8	1.9	1.4								4.5	8.7
NNE		.4	.4	.5								1.3	8.9
NE		.3	1.1	.3								1.7	8.8
ENE	.1	.1	.5	.4	.1							1.3	10.0
E	.3	.1	.9	1.1	.3							2.7	10.2
ESE	.4	.1	1.5	1.0								3.1	9.1
SE	.1	1.0	1.0	.9	.4							3.4	9.8
SSE	.8	.8	.6	1.4								3.6	8.2
S	.8	3.7	3.7	1.9	.5							10.6	8.3
SSW		2.4	3.4	.8	.3	.3						7.2	8.6
SW	1.1	3.2	4.1	1.5	.1	.1						10.2	7.8
WSW	.5	4.3	6.4	2.6	.3							14.0	8.0
W	.6	3.4	4.9	3.7	.1							12.8	8.7
WNW	.6	1.9	3.8	2.7	.1							9.2	9.0
NW		1.3	2.3	2.3	.1							6.0	9.7
NNW	.5	.9	1.9	1.9	.5							5.5	10.2
VARBL													
CALM												3.1	
	6.0	24.8	38.6	24.4	2.8	.4						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 783

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

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
A[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible] (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

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

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	.5	3.3	2.4	.1							6.9	9.6
NNE	.3	.6	.3	.6								1.8	7.7
NE	.3	.3	1.0	.5								2.1	8.6
ENE		.4	1.2	.3								1.8	8.[illegible]
E	.1	.4	1.4	1.5	.4							3.9	1[illegible].4
ESE	.3	.8	1.4	.5								3.0	7.7
SE	.5	.6	1.3	2.1	.1							4.9	1[illegible]
SSE	.1	.8	1.3	.8	.6	.1						3.7	1[illegible]
S	.4	1.7	4.4	1.8	.1	.1						8.5	8.9
SSW		.4	2.8	1.7		.5						5.9	1[illegible].6
SW	.1	1.6	4.1	2.7	.3	.3						9.[illegible]	1[illegible]
WSW	.3	1.5	5.1	4.5	.6	.1						1[illegible]	1[illegible].9
W	.5	1.2	6.7	8.2	.3							1[illegible]	9.8
WNW	.3	.8	4.8	4.9	.3							1[illegible]	1[illegible]
NW		.4	3.6	3.6	.3							7.8	1[illegible].7
NNW		.6	2.1	5.0	.3							8.[illegible]	1[illegible]
VARBL													
CALM												[illegible]	
	3.3	12.3	48.3	35.1	3.2	1.2						1[illegible]	8.9

TOTAL NUMBER OF OBSERVATIONS [illegible]

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

NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	NOV

CLASS: ALL WEATHER

HOURS (L.S.T.): 1500-1700

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	1.4	2.1	1.3								5.6	8.4
NNE	.3	.9	1.0	.3	.1	.1						2.7	8.3
NE	.5	.8	.4	.3								1.9	6.7
ENE	.3	.4	1.7	.3								2.6	8.0
E	.4	.6	2.3	1.1								4.5	8.5
ESE	.3	.6	3.3	.6								4.9	7.8
SE	.4	1.1	4.0	1.5								7.5	8.3
SSE		.9	1.5	.5								2.9	8.2
S	.5	2.8	2.6	1.9								7.8	8.0
SSW	.1	.9	1.9	1.5	.1							4.6	9.2
SW	.8	1.1	2.1	2.0								6.6	8.3
WSW	.5	1.4	4.5	2.8	.5	.1						10.3	9.4
W	.4	2.6	5.5	4.1	.3							12.8	9.2
WNW	.3	2.4	4.6	3.8	.8							11.9	9.7
NW	.1	.4	3.3	3.2	.3							7.3	10.9
NNW	.1	.8	2.0	2.4	.1							5.5	10.3
VARBL													
CALM												.6	
	5.1	20.2	43.9	27.7	2.2	.3						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 783

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

AL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
639	PHELPS-COLLINS/ALPENA MI	73-81	NOV

CLASS: ALL WEATHER

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

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	.8	2.0	1.3	.9	.1							5.1	7.0
NNE	.4	.6	.4	.1								1.5	6.3
NE	.6	.5	1.4	.3	.1							2.9	7.2
ENE	.6	1.3	.4									2.3	4.9
E	.3	.9	.9	.6								2.7	8.0
ESE		.8	.8	.4								1.9	7.7
SE	.9	2.0	2.4	1.7								7.0	7.7
SSE	.6	2.4	1.3	.5								4.8	6.2
S	1.3	6.9	4.1	.5	.1							12.8	6.2
SSW	.1	2.0	1.8	.4	.1	.1						4.6	7.8
SW	.4	2.0	3.8	1.9								8.1	8.3
WSW	.5	3.4	2.5	2.2	.1							8.8	8.0
W	.5	4.5	4.3	1.5	.1							10.9	7.5
WNW	.5	2.7	3.6	2.3								9.0	8.3
NW	.3	1.8	2.7	1.3	.1							6.1	8.3
NNW	.1	1.1	1.8	1.7	.3	.1						5.1	10.1
VARBL													
CALM												6.2	
	7.9	35.0	33.3	16.2	1.1	.3						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 786

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

1154

GLOBAL CLIMATOLOGY BRANCH
[illegible]
[illegible] WEATHER SERVICE/MAC

SURFACE WINDS

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

[illegible]39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	.9	.5	1.1								3.7	7.[illegible]
NNE	.3	.5	.4	.8								1.9	6.7
NE	.4	.5	.9	.1								1.9	6.4
ENE	.4	.6	.8	.5								2.3	7.7
E	.4		1.5									1.9	7.5
ESE	.3	.5	.9	.1								1.[illegible]	6.4
SE	.4	.4	1.6	.8								3.2	8.4
SSE	1.3	2.7	1.0	.6	.1							5.7	6.3
S	2.0	4.6	4.3	1.8								12.7	6.9
SSW	1.0	1.9	2.9	.9	.3							7.0	7.5
SW	1.1	2.4	3.8	1.5	.1							9.0	7.5
WSW	1.9	3.4	3.9	1.4	.1							10.8	7.0
W	1.4	5.1	3.8	1.8								12.0	7.0
WNW	.8	3.0	3.3	1.0	.1							8.2	7.2
NW	.3	1.4	2.4	.8	.3							5.1	8.4
NNW	.5	1.0	1.6	1.5	.3							4.9	8.9
VARBL													
CALM												8.1	
	13.4	28.9	33.7	14.7	1.3							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 79[illegible]

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

AL CLIMATOLOGY BRANCH
TAC
WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
739	PHELPS-COLLINS/ALPENA MI	73-81	NOV

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.5	1.1	1.7	1.2	.0							4.5	8.2
NNE	.2	.5	.7	.4	.0	.0						1.9	7.8
NE	.4	.6	.8	.4	.0							2.1	7.5
ENE	.2	.6	.8	.3	.0							1.9	7.6
E	.2	.4	1.1	.7	.1							2.5	8.9
ESE	.3	.5	1.4	.4								2.6	7.7
SE	.5	1.1	1.9	1.2	.1							4.8	8.4
SSE	.8	1.5	1.1	.6	.1	.0						4.0	7.0
S	1.3	3.8	4.0	1.5	.2	.0						10.3	7.4
SSW	.5	2.0	2.4	.9	.1	.1						6.0	7.9
SW	.8	2.8	3.4	1.6	.1	.0						8.8	7.7
WSW	.8	3.5	4.0	2.2	.2	.0						10.7	8.0
W	1.1	4.2	5.0	2.7	.2							13.1	8.0
WNW	.7	2.6	3.9	2.3	.2							9.7	8.3
NW	.2	1.0	2.4	2.1	.2							6.0	9.6
NNW	.5	.9	1.6	1.7	.2	.0						4.6	9.6
VARBL													
CALM												6.1	
	8.8	27.0	36.1	20.1	1.7	.3						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 6278

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7 (39	PHELPS-COLLINS/ALPENA MI	73-81	DEC

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	.2	1.1	1.5	1.0	.1							4.0	8.6
NNE	.5	.5	1.4	.5								2.9	7.7
NE	.1	1.1	.4	.1								1.7	6.4
ENE	.4	.5	.9	.1								1.9	6.8
E		.4	.9	.9								2.1	9.2
ESE	.2	1.0	.5	.4								2.1	7.0
SE	.1	.6	1.9	1.5								4.1	9.0
SSE	.2	1.2	1.4	1.1								4.0	8.3
S	1.7	4.5	4.1	1.4								11.7	6.8
SSW	.7	3.6	3.4	.6								8.4	6.8
SW	.9	4.0	4.2	1.0	.1							10.2	7.1
WSW	.5	5.1	4.7	1.0								11.3	6.9
W	1.6	5.1	4.1	.6	.1	.2						11.8	6.8
WNW	.6	3.0	3.4	2.0	.2							9.2	8.3
NW	.4	1.4	2.2	3.0	.1							7.1	9.4
NNW	.4	.5	.6	1.0	.1							2.6	8.9
VARBL													
CALM												4.7	
	8.7	33.7	35.5	16.2	.9	.2						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 802

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

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

SURFACE WINDS

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

159 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — 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	.9	1.1	.8	.8	.1							3.6	7.3
NNE	.8	.4	1.3	.5	.1							3.0	7.9
NE	.5	.6	1.1	.1								2.1	7.0
ENE	.1	.4	.8	.1								1.4	7.9
E	.3	.3	.6	.4								1.5	7.7
ESE	.5	.9	.5	1.4								3.3	8.1
SE	.5	.4	1.1	1.1								3.6	8.1
SSE	.6	1.6	2.0	.6								4.9	7.0
S	.5	2.4	5.4	2.3								10.6	7.9
SSW	1.0	3.1	2.5	1.1								7.8	6.7
SW	1.1	4.8	2.5	1.9								10.3	6.9
WSW	1.3	5.7	4.7	.8								12.3	6.6
W	2.5	4.4	5.4	.8	.1							13.2	6.4
WNW	1.4	3.1	2.6	1.9								9.1	7.3
NW	.4	.6	1.6	2.4	.1							5.2	10.0
NNW	.1	1.5	.6	1.5								3.8	8.8
VARBL													
CALM												4.3	
	12.2	31.8	33.6	17.6	.5							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 795

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
7.539	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

HOURS (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	.4	.7	.6	1.5	.4							3.5	10.0
NNE	.1	.7	1.0	1.0								2.8	8.7
NE	.2	.4	1.5	.2	.1							2.4	8.7
ENE	.1	.1	.4	.5								1.1	9.4
E	.4	.1	.5	1.7								2.7	10.3
ESE	.1	1.0	.4	1.3								2.8	9.0
SE	.2	.7	1.6	1.2								3.8	8.6
SSE	.9	1.1	1.5	.5								3.9	6.8
S	1.0	4.5	4.5	2.8								12.8	7.6
SSW	1.0	2.3	3.2	.7								7.2	6.9
SW	1.6	4.8	3.1	1.1								10.5	6.7
WSW	1.1	3.9	2.6	1.0								8.6	6.7
W	1.5	6.0	5.3	.9								13.6	6.6
WNW	1.1	2.7	2.2	1.2								7.2	7.2
NW	.7	.7	1.1	2.2	.5							5.3	10.2
NNW	.2	.6	1.5	2.3								4.6	10.2
VARBL													
CALM												7.1	
	10.6	30.4	30.7	20.2	1.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 818

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
4139	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

HOURS (L.S.T.): 0900-1100

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	1.9	1.7	.2	.1						6.0	9.0
NNE	.9	.2	1.0	.4	.1							2.6	7.4
NE	.4	.1	1.1	.7	.5							2.9	10.5
ENE	.4	.1	.5	.7								1.7	9.5
E	.2		.1	1.1								1.5	11.2
ESE	.1	.2	.5	1.7								2.6	11.2
SE	.2	.5	1.0	1.2								3.0	9.3
SSE	.1	1.5	1.7	1.2								4.6	8.5
S	1.0	4.5	5.5	3.1								14.1	7.9
SSW	.7	2.0	2.4	1.5								6.6	7.6
SW	1.0	2.7	3.6	1.6	.2							9.2	7.8
WSW	.6	3.9	4.6	1.2	.2							10.6	7.7
W	1.1	4.5	4.7	1.7								12.1	7.1
WNW	.5	2.4	4.2	1.6								8.7	7.8
NW	.5	1.2	1.1	1.7	.4							5.0	9.6
NNW	.2	.5	.7	2.6	.6							4.7	11.9
VARBL													
CALM												4.0	
	8.7	25.8	34.8	24.2	2.4	.1						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 802

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
14839.	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

HOURS (L.S.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	.5	.7	1.4	2.0	.4	.1						5.1	10.8
NNE	.2	.5	1.0	1.0								2.7	8.5
NE	.2	.7	.6	1.5	.1							3.2	9.6
ENE	.2	.7	.4	.5	.2							2.1	8.7
E		.5	.4	1.2								2.1	10.6
ESE	.1	.5	.5	1.5	.1							2.7	10.9
SE	.2	.7	.9	1.7								3.6	9.8
SSE	.6	1.0	2.3	1.0	.1							5.1	8.3
S	.1	2.1	4.1	3.2	...							9.5	9.3
SSW	.1	.7	2.7	1.9	.1							5.6	9.7
SW	.2	1.6	4.2	2.3	.2							8.6	9.2
WSW	.1	2.7	4.6	4.1	.5	.1						12.1	9.8
W	.4	3.0	5.9	4.2	.2							13.7	8.9
WNW	.2	1.1	4.0	2.3	.1							7.8	9.4
NW	.2	.5	3.5	2.8	.5							7.5	10.8
NNW	.6	.5	1.9	3.7	.6	.1						7.4	11.2
VARBL													
CALM												1.2	
	4.3	17.7	38.1	34.9	3.3	.4						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
6390	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

HOURS (L.S.T.): 1500-1700

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	1.9	1.5	2.0		.2						6.0	9.2
NNE	.1	1.0	1.4	.6	.2							3.4	9.3
NE	.5	.4	.5	.6	.1							2.1	8.4
ENE	.4	.5	.1	.6	.1							1.7	8.9
E	.7	.7	1.0	1.0	.1							3.6	8.2
ESE	.2	1.0	.7	1.1								3.1	8.5
SE	.2	1.0	1.6	1.1								4.0	8.4
SSE	.6	1.0	1.9	1.1								4.6	7.8
S	.9	2.1	4.7	2.5								10.2	8.5
SSW	.1	1.4	3.0	.7								5.2	8.3
SW	.6	2.0	3.0	1.5	.1							7.2	8.0
WSW	.1	3.0	4.1	2.5	.1							9.8	8.6
W	.6	3.6	4.5	3.7	.2							12.7	8.7
WNW	.5	2.5	4.5	3.1	.2							10.8	9.0
NW	.4	2.1	3.0	3.0	.5	.1						9.1	9.7
NNW	.2	.6	1.6	3.1	.1	.1						5.8	11.0
VARBL													
CALM												.7	
	6.7	24.7	37.0	28.3	2.0	.5						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 805

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

1158

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

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

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	.7	1.0	1.7	.9								4.3	7.1
NNE	.5	.6	.4	.6	.2							2.3	8.8
NE	.6	.7	.6	.9								2.8	7.8
ENE	.2	.2	.2	.2								1.0	7.0
E	.4	.9	.6	.2		.1						2.2	7.3
ESE	.2	.5	.9	.9	.1							2.6	9.9
SE	.4	1.5	1.0	1.4								4.2	8.2
SSE	.6	2.8	2.6	1.0								7.0	7.0
S	1.2	3.7	4.4	1.5								10.9	7.0
SSW	.6	3.2	2.7	.6								7.2	6.9
SW	.6	2.7	3.1	.7	.1							7.3	7.1
WSW	1.1	3.8	3.2	1.5	.4							10.0	7.4
W	1.0	3.9	5.5	1.2								11.7	7.1
WNW	1.4	3.8	3.9	2.0	.2							11.3	7.5
NW	.4	1.5	2.6	2.5	.6							7.5	9.9
NNW	.4	.6	1.0	1.2								3.2	9.1
VARBL													
CALM												4.4	
	10.4	31.6	34.5	17.3	1.7	.1						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 811

USAFETAC FORM 0-8-5 (OL-A) JUL 66 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

14839 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS)

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	.4	.6	1.5	.7								3.2	8.3
NNE	.1	.4	1.0	1.0								2.5	9.5
NE		.4	.4	.6	.1							1.5	9.6
ENE	.2	.5	.7	.4								1.8	7.7
E	.1	.4	.6	.2	.1							1.5	8.3
ESE	.1		1.1	1.1	.1							2.5	10.9
SE	.7	1.0	2.0	1.2								4.9	7.9
SSE	.6	2.0	1.6	.6								4.8	6.7
S	1.2	3.0	4.6	1.5								10.2	7.0
SSW	.6	3.5	3.2	1.1								8.4	6.9
SW	.9	3.0	5.1	1.2	.1							10.2	7.6
WSW	.9	5.4	3.5	1.2								11.0	6.7
W	1.4	6.2	4.7	.6								12.8	6.3
WNW	.5	3.3	4.1	1.4	.5							9.7	8.1
NW	.5	1.0	3.0	2.0	.4							6.8	9.5
NNW	.7	.1	.4	1.7		.1						3.1	10.0
VARBL													
CALM												5.1	
	9.4	34.6	37.2	16.6	1.4	.1						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 811

1159

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CLASS: ALL WEATHER

HOURS (L.S.T.): 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	.5	1.1	1.3	1.3	.2	.1						4.5	8.9
NNE	.4	.5	1.0	.7	.1							2.8	8.5
NE	.3	.6	.8	.6	.1							2.4	8.6
ENE	.3	.4	.5	.4	.0							1.6	8.3
E	.3	.4	.6	.9	.0	.0						2.2	9.1
ESE	.2	.5	.6	1.2	.0							2.7	9.4
SE	.3	.9	1.4	1.3								3.9	8.6
SSE	.5	1.5	1.9	.9	.0							4.9	7.5
S	1.0	3.3	4.7	2.3								11.2	7.7
SSW	.6	2.5	2.9	1.0	.0							7.0	7.4
SW	.9	3.2	3.6	1.4	.1							9.2	7.5
WSW	.7	4.2	4.0	1.7	.2	.0						10.7	7.6
W	1.3	4.6	5.0	1.7	.1	.0						12.7	7.3
WNW	.8	2.7	3.6	1.9	.2							9.2	8.1
NW	.4	1.1	2.3	2.4	.4	.0						6.7	9.9
NNW	.4	.6	1.0	2.2	.2	.0						4.4	10.4
VARBL													
CALM												4.0	
	8.8	28.3	35.2	21.9	1.6	.2						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 6454

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

...AL CLIMATOLOGY BRANCH
...ETAC
... WEATHER SERVICE/MAC

SURFACE WINDS

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

...-39... (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) ALL (MONTH)

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

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.2	2.2	1.7	.1	.0	.0					5.8	8.7
NNE	.4	.8	1.1	.5	.0	.0	.0					2.9	7.7
NE	.4	.8	.9	.5	.0	.0						2.6	7.3
ENE	.3	.6	.7	.4	.0	.0	.0					2.0	7.6
E	.4	.8	1.5	.8	.1	.0						3.5	8.3
ESE	.4	1.2	2.4	1.3	.1	.0						5.5	8.4
SE	.7	1.6	2.2	1.2	.0	.0						5.7	7.7
SSE	.9	1.6	1.3	.6	.1	.0						4.3	6.6
S	1.3	2.8	3.1	1.5	.1	.0						8.8	7.3
SSW	.7	1.8	1.9	.8	.0	.0						5.3	7.3
SW	1.0	2.3	2.5	1.0	.1	.0	.0					6.9	7.2
WSW	1.1	2.7	2.7	1.2	.1	.0						7.8	7.2
W	1.6	4.2	4.0	1.8	.1	.0						11.6	7.2
WNW	1.0	2.8	3.4	2.3	.2	.0						9.8	8.3
NW	.6	1.4	2.4	2.2	.3	.0						6.9	9.2
NNW	.4	.8	1.5	1.7	.2	.0	.0					4.6	9.4
VARBL													
CALM												6.1	
	11.6	27.3	33.7	19.6	1.5	.2	.0					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 76656

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

1160

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WIN

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

STATION	STATION NAME	YEARS	MONTH
[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	ALL

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

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

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.7	2.8	2.5	.2	.0						7.9	8.9
NNE	.4	1.0	1.8	1.1	.1	.0						4.4	8.7
NE	.4	1.3	1.8	1.0	.1	.0						4.6	8.3
ENE	.3	1.1	1.7	1.1	.1	.0						4.4	8.8
E	.4	1.2	2.5	1.9	.3	.0						6.3	9.3
ESE	.5	1.8	3.2	2.0	.1	.0						7.5	8.7
SE	.6	2.1	3.1	2.2	.2							8.2	8.5
SSE	.8	1.6	2.0	1.1	.1	.0						5.7	7.8
S	1.0	2.7	3.2	1.4	.1							8.4	7.5
SSW	.4	1.1	1.3	.3	.0	.0						3.1	6.8
SW	.5	1.4	1.2	.2	.0							3.4	6.5
WSW	.7	1.5	1.2	.4	.0							3.8	6.5
W	1.0	2.4	2.7	1.1	.1							7.3	7.3
WNW	.-	2.0	3.3	2.2	.3	.0						8.5	8.7
NW	.4	1.3	2.7	3.0	.4	.0						7.8	10.0
NNW	.3	.9	1.7	2.2	.2	.1						5.3	10.0
VARBL													
CALM												3.4	
	9.1	25.0	36.2	23.8	2.3	.3						100.1	8.1

TOTAL NUMBER OF OBSERVATIONS 11575

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

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

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

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

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

D

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 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.

Continued on Reverse Side

EXAMPLES 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	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800 ≥ 1500					91.0											92.6
≥ 1200 ≥ 1000																
≥ 900 ≥ 800																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4						98.1
≥ 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
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): 0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥5/8	≥½	≥5/16	≥¼	≥0
NO CEILING	18.1	30.5	30.9	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 20000	19.2	32.8	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 18000	19.2	32.8	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 16000	19.2	32.8	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 14000	19.2	32.8	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 12000	19.5	33.1	33.5	33.6	33.6	33.6	33.6	33.6	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 10000	20.2	33.9	34.3	34.4	34.4	34.4	34.4	34.4	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 9000	20.2	34.1	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 8000	20.3	34.9	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 7000	21.2	35.4	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.4	36.4
≥ 6000	21.7	36.0	36.8	36.9	36.9	36.9	36.9	36.9	36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 5000	22.3	37.3	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5
≥ 4500	24.3	40.0	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 4000	24.4	40.6	41.5	42.0	42.0	42.0	42.0	42.0	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 3500	25.4	42.5	43.9	44.6	44.6	44.6	44.6	44.6	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 3000	27.9	46.9	48.9	49.8	49.9	49.9	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 2500	31.5	53.9	56.3	57.4	58.0	58.0	58.0	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 2000	34.3	61.2	64.1	65.4	67.0	67.0	67.8	67.9	67.9	68.1	68.1	68.1	68.3	68.3	68.5	68.5
≥ 1800	35.2	62.9	66.1	67.5	69.6	69.6	70.3	70.5	70.5	70.7	70.7	70.7	70.8	70.8	71.1	71.1
≥ 1500	37.3	69.1	72.7	74.1	76.7	77.0	78.2	78.4	78.4	78.8	78.8	78.8	78.9	78.9	79.2	79.2
≥ 1200	39.3	72.2	76.0	77.7	80.6	80.9	82.4	82.6	82.6	83.1	83.1	83.1	83.2	83.2	83.5	83.5
≥ 1000	39.3	74.1	78.2	79.9	83.3	83.9	86.3	87.0	87.0	87.9	87.9	87.9	88.0	88.0	88.2	88.2
≥ 900	39.5	75.1	79.3	81.0	84.7	85.3	87.7	88.6	88.6	89.5	89.5	89.5	89.6	89.6	89.8	89.8
≥ 800	39.5	75.6	79.8	81.7	85.4	86.4	88.8	90.3	90.4	91.3	91.4	91.4	91.5	91.7	91.9	91.9
≥ 700	39.6	75.9	80.0	82.1	85.8	86.8	89.2	90.8	91.1	91.9	92.0	92.0	92.2	92.6	92.9	92.9
≥ 600	39.7	76.1	80.4	82.7	86.4	87.4	90.3	92.0	92.3	93.1	93.3	93.4	93.5	94.0	94.2	94.2
≥ 500	39.7	76.7	81.4	83.7	87.4	88.4	91.4	93.1	93.9	95.0	95.1	95.2	95.3	96.0	96.2	96.2
≥ 400	39.7	77.0	81.6	84.1	87.7	88.7	91.9	93.6	94.6	95.7	96.2	96.3	96.4	97.1	97.3	97.3
≥ 300	39.7	77.0	81.6	84.2	87.9	88.8	92.0	93.8	94.7	95.8	96.4	96.6	96.7	97.3	97.5	97.5
≥ 200	39.7	77.0	81.6	84.2	87.9	89.2	92.6	94.4	95.3	96.6	97.3	97.4	97.7	98.3	98.5	98.7
≥ 100	39.7	77.0	81.6	84.2	87.9	89.2	92.6	94.5	95.5	96.7	97.7	97.8	98.0	98.8	99.1	99.4
≥ 0	39.7	77.0	81.6	84.2	87.9	89.2	92.6	94.5	95.5	96.7	97.7	97.8	98.0	98.8	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 616

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

(CEDU) PHELPS-COLLINS/ALPENA MI 73-81 JAN
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0	≥0
NO CEILING	17.0	28.0	28.0	28.3	28.4	28.4	28.4	28.5	28.5	28.5	28.7	28.7	28.7	28.7	28.8	28.8
≥ 20000	17.6	29.4	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.3	30.3
≥ 18000	17.6	29.4	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.3	30.3
≥ 16000	17.6	29.4	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.3	30.3
≥ 14000	17.6	29.4	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.3	30.3
≥ 12000	17.9	29.7	29.7	29.9	30.0	30.0	30.1	30.3	30.3	30.3	30.4	30.4	30.4	30.4	30.5	30.5
≥ 10000	18.5	30.5	30.5	30.8	30.9	30.9	31.0	31.1	31.1	31.1	31.3	31.3	31.3	31.3	31.4	31.4
≥ 9000	18.7	30.8	30.8	31.0	31.1	31.1	31.3	31.4	31.4	31.4	31.5	31.5	31.5	31.5	31.6	31.6
≥ 8000	19.1	31.4	31.4	31.6	31.8	31.8	31.9	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.3	32.3
≥ 7000	19.4	31.9	32.0	32.3	32.4	32.4	32.5	32.6	32.6	32.6	32.8	32.8	32.8	32.8	32.9	32.9
≥ 6000	19.5	32.3	32.1	32.4	32.5	32.5	32.6	32.8	32.8	32.8	32.9	32.9	32.9	32.9	33.0	33.0
≥ 5000	20.5	33.6	33.7	34.1	34.2	34.2	34.4	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.7	34.7
≥ 4500	21.3	35.2	35.4	35.7	35.9	35.9	36.0	36.1	36.1	36.1	36.2	36.2	36.2	36.2	36.4	36.4
≥ 4000	21.3	35.4	35.5	36.0	36.1	36.1	36.2	36.4	36.4	36.4	36.5	36.5	36.5	36.5	36.6	36.6
≥ 3500	22.2	37.2	37.3	37.8	38.0	38.0	38.1	38.2	38.2	38.2	38.3	38.3	38.3	38.3	38.5	38.5
≥ 3000	24.8	42.2	42.7	43.2	43.4	43.4	43.5	43.7	43.7	43.7	43.8	43.8	43.8	43.8	43.9	43.9
≥ 2500	29.3	49.4	50.2	50.9	51.5	51.5	51.6	51.7	51.7	51.7	51.9	51.9	51.9	51.9	52.0	52.0
≥ 2000	31.6	58.2	60.7	62.2	63.3	63.5	64.1	64.3	64.3	64.3	64.4	64.4	64.6	64.6	64.9	64.9
≥ 1800	32.5	60.5	63.4	65.1	66.3	66.5	67.2	67.4	67.4	67.4	67.5	67.5	67.7	67.7	68.0	68.0
≥ 1500	35.0	67.9	71.0	73.3	75.4	75.9	77.2	77.5	77.5	77.5	77.7	77.7	78.0	78.0	78.3	78.3
≥ 1200	36.5	71.5	75.1	77.7	80.0	80.6	82.1	82.5	82.5	82.5	82.8	82.8	83.3	83.3	83.5	83.5
≥ 1000	37.5	74.1	78.0	80.8	83.5	84.4	86.5	86.8	86.8	87.3	87.7	87.7	88.2	88.2	88.5	88.5
≥ 900	38.0	74.9	78.9	81.6	84.5	85.4	87.5	87.8	87.8	88.5	88.8	88.8	89.3	89.3	89.6	89.6
≥ 800	38.0	75.7	79.7	82.5	85.4	86.2	88.5	89.1	89.1	89.7	90.1	90.1	90.6	90.6	90.8	90.8
≥ 700	38.0	76.3	80.5	83.4	86.2	87.3	89.6	90.3	90.3	90.9	91.3	91.3	91.8	91.8	92.1	92.1
≥ 600	38.0	76.6	80.8	83.7	86.8	88.1	90.7	91.8	91.8	92.4	92.8	92.8	93.3	93.4	93.7	93.7
≥ 500	38.0	76.9	81.1	84.1	87.2	88.5	91.2	93.1	93.3	94.2	94.7	94.8	95.3	95.4	95.7	95.7
≥ 400	38.0	76.9	81.1	84.1	87.3	88.7	91.4	93.4	93.7	94.7	95.4	95.5	96.3	96.7	97.0	97.0
≥ 300	38.0	77.0	81.3	84.2	87.7	89.1	92.1	94.4	94.7	95.7	96.4	96.5	97.3	97.6	98.0	98.0
≥ 200	38.0	77.0	81.3	84.2	87.7	89.1	92.1	94.5	94.8	95.9	96.9	97.0	98.3	98.8	99.1	99.1
≥ 100	38.0	77.0	81.3	84.2	87.7	89.1	92.1	94.5	94.9	96.0	97.0	97.1	98.4	99.0	99.4	99.6
≥ 0	38.0	77.0	81.3	84.2	87.7	89.1	92.1	94.5	94.9	96.0	97.0	97.1	98.4	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 806

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	15.7	28.0	28.4	28.4	28.6	29.1	29.1	29.1	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4
≥ 20000	16.1	29.0	29.4	29.4	29.6	30.1	30.1	30.2	30.2	30.2	30.5	30.5	30.5	30.5	30.5	30.5
≥ 18000	16.4	29.4	29.7	29.7	30.0	30.5	30.5	30.6	30.6	30.6	30.8	30.8	30.8	30.8	30.8	30.8
≥ 16000	16.4	29.4	29.7	29.7	30.0	30.5	30.5	30.6	30.6	30.6	30.8	30.8	30.8	30.8	30.8	30.8
≥ 14000	16.7	29.6	30.0	30.0	30.2	30.7	30.7	30.8	30.8	30.8	31.1	31.1	31.1	31.1	31.1	31.1
≥ 12000	16.7	29.8	30.2	30.2	30.5	30.9	30.9	31.1	31.1	31.1	31.3	31.3	31.3	31.3	31.3	31.3
≥ 10000	17.3	30.6	30.9	30.9	31.2	31.7	31.7	31.9	31.9	31.9	32.2	32.2	32.2	32.2	32.2	32.2
≥ 9000	17.3	30.6	30.9	30.9	31.2	31.7	31.7	31.9	31.9	31.9	32.2	32.2	32.2	32.2	32.2	32.2
≥ 8000	18.1	32.0	32.4	32.4	32.6	33.1	33.1	33.4	33.4	33.4	33.6	33.6	33.6	33.6	33.6	33.6
≥ 7000	18.5	32.9	33.3	33.3	33.6	34.1	34.1	34.3	34.3	34.3	34.6	34.6	34.6	34.6	34.6	34.6
≥ 6000	18.8	33.5	33.9	33.9	34.3	34.8	34.8	35.1	35.1	35.1	35.3	35.3	35.3	35.3	35.3	35.3
≥ 5000	18.9	34.2	35.0	35.0	35.7	36.2	36.2	36.4	36.4	36.4	36.7	36.7	36.7	36.7	36.7	36.7
≥ 4500	19.0	34.8	35.6	35.6	36.3	36.8	36.8	37.0	37.0	37.0	37.3	37.3	37.3	37.3	37.3	37.3
≥ 4000	19.0	35.1	35.8	35.8	36.5	37.0	37.0	37.3	37.3	37.4	37.6	37.6	37.6	37.6	37.6	37.6
≥ 3500	19.9	37.1	37.9	37.9	38.6	39.1	39.1	39.3	39.3	39.5	39.7	39.7	39.7	39.7	39.7	39.7
≥ 3000	21.2	39.6	40.4	40.4	41.2	41.8	41.9	42.1	42.1	42.3	42.5	42.5	42.5	42.5	42.5	42.5
≥ 2500	25.8	46.4	47.9	48.4	49.7	50.3	50.7	51.0	51.0	51.2	51.6	51.6	51.6	51.6	51.6	51.6
≥ 2000	28.3	53.3	55.3	55.9	58.6	59.8	60.9	61.4	61.4	61.6	62.2	62.2	62.2	62.2	62.2	62.2
≥ 1800	29.1	55.2	57.2	58.1	61.1	62.4	63.6	64.1	64.1	64.3	65.0	65.0	65.0	65.0	65.0	65.0
≥ 1500	31.4	62.1	64.6	65.8	69.4	71.0	73.4	74.4	74.4	74.8	76.0	76.0	76.1	76.1	76.1	76.1
≥ 1200	33.7	67.5	70.5	71.9	75.9	77.6	80.0	81.2	81.2	81.6	82.8	82.8	82.9	82.9	82.9	82.9
≥ 1000	34.3	70.4	73.8	75.9	80.0	81.7	84.3	85.7	85.7	86.8	88.2	88.2	88.3	88.3	88.3	88.3
≥ 900	34.7	71.1	74.5	76.7	81.0	82.7	85.3	86.7	86.7	87.8	89.2	89.2	89.3	89.3	89.3	89.3
≥ 800	35.3	72.2	75.6	77.8	82.1	83.8	86.4	87.8	87.8	89.2	90.6	90.7	90.9	90.9	90.9	90.9
≥ 700	35.3	73.0	76.5	78.9	83.2	85.0	87.6	89.2	89.2	90.5	92.1	92.2	92.3	92.4	92.4	92.4
≥ 600	35.3	73.2	76.7	79.2	83.6	85.4	87.9	89.5	89.6	91.0	92.7	92.9	93.1	93.2	93.2	93.2
≥ 500	35.3	73.3	76.9	79.4	83.8	86.0	88.7	90.4	90.5	92.0	94.3	95.1	95.2	95.4	95.4	95.4
≥ 400	35.3	73.4	77.0	79.5	84.0	86.2	88.9	90.9	91.0	92.6	94.9	95.7	96.1	96.8	96.8	96.8
≥ 300	35.3	73.4	77.0	79.5	84.0	86.4	89.0	91.6	91.8	93.4	95.7	96.6	97.0	97.7	97.9	97.9
≥ 200	35.3	73.4	77.0	79.5	84.0	86.4	89.2	91.7	92.0	93.7	96.5	97.3	98.1	98.9	99.4	99.5
≥ 100	35.3	73.4	77.0	79.5	84.0	86.4	89.2	91.7	92.0	93.7	96.6	97.4	98.2	99.1	99.6	99.9
≥ 0	35.3	73.4	77.0	79.5	84.0	86.4	89.2	91.7	92.0	93.7	96.6	97.4	98.2	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.5	30.2	30.9	31.5	31.9	32.0	32.1	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 20000	19.8	32.2	33.1	34.1	34.6	35.0	35.3	35.5	35.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥ 18000	20.0	32.5	33.3	34.3	34.8	35.3	35.5	35.8	35.8	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 16000	20.0	32.5	33.3	34.3	34.8	35.3	35.5	35.8	35.8	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 14000	20.3	32.8	33.7	34.7	35.2	35.7	35.9	36.1	36.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 12000	20.6	33.2	34.1	35.0	35.5	36.0	36.3	36.5	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 10000	21.5	35.9	36.8	37.9	38.3	38.9	39.2	39.7	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 9000	21.5	35.9	36.8	37.9	38.3	38.9	39.2	39.7	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 8000	22.0	36.9	37.7	38.8	39.3	40.3	40.5	41.0	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 7000	23.0	37.9	38.8	39.9	40.4	41.4	41.6	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 6000	23.4	38.3	39.3	40.4	40.9	41.9	42.1	42.6	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 5000	23.7	39.2	40.3	41.4	42.0	43.0	43.2	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 4500	24.2	39.8	40.9	42.1	42.7	43.7	44.0	44.4	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 4000	24.3	39.9	41.0	42.5	43.1	44.1	44.3	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 3500	25.5	41.5	42.9	44.3	44.9	45.9	46.2	46.6	46.6	46.8	46.8	46.8	46.8	46.8	46.8	46.8
≥ 3000	26.5	44.0	45.4	47.1	47.9	48.8	49.2	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 2500	28.1	48.6	50.4	52.5	53.2	54.5	54.8	55.4	55.4	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 2000	29.9	53.2	55.2	57.6	59.8	61.8	62.5	63.1	63.1	63.6	63.7	63.7	63.7	63.7	63.7	63.7
≥ 1800	31.1	55.8	58.0	60.7	63.0	65.1	65.8	66.7	66.7	67.2	67.3	67.3	67.3	67.3	67.3	67.3
≥ 1500	32.4	59.7	62.5	65.8	68.9	71.1	72.6	74.1	74.1	75.1	75.3	75.3	75.5	75.5	75.5	75.5
≥ 1200	33.6	63.7	66.5	70.2	73.5	75.8	77.9	79.4	79.4	80.5	81.1	81.1	81.2	81.2	81.2	81.2
≥ 1000	34.3	65.9	68.7	72.8	76.8	79.4	82.1	84.0	84.0	85.5	86.3	86.3	86.4	86.4	86.4	86.4
≥ 900	34.3	66.3	69.2	73.3	77.5	80.1	82.8	84.7	84.7	86.2	87.3	87.3	87.5	87.5	87.5	87.5
≥ 800	34.3	66.8	69.8	74.4	78.8	81.3	84.0	86.1	86.1	87.7	89.3	89.5	89.7	89.7	89.7	89.7
≥ 700	34.3	67.5	70.7	75.2	79.6	82.3	85.1	87.7	87.8	89.5	91.3	91.6	91.8	91.8	91.8	91.8
≥ 600	34.3	67.6	70.9	75.8	80.3	83.0	86.1	88.8	89.0	90.8	93.2	93.4	93.7	93.7	93.7	93.7
≥ 500	34.3	67.8	71.3	76.2	81.0	83.6	86.8	89.7	90.0	92.1	94.5	94.9	95.5	95.5	95.5	95.5
≥ 400	34.3	67.9	71.4	76.6	81.4	84.4	87.5	90.5	90.7	93.0	95.7	96.1	96.7	96.9	96.9	96.9
≥ 300	34.3	67.9	71.4	76.8	81.7	84.6	87.8	90.7	91.0	93.4	96.3	96.7	97.4	97.7	97.8	97.8
≥ 200	34.3	67.9	71.4	76.8	81.7	84.6	87.8	90.7	91.0	93.7	97.1	97.6	98.5	99.0	99.1	99.6
≥ 100	34.3	67.9	71.4	76.8	81.7	84.6	87.8	90.7	91.0	93.7	97.1	97.6	98.5	99.1	99.3	99.9
≥ 0	34.3	68.0	71.6	76.9	81.8	84.7	87.9	90.8	91.1	93.8	97.2	97.7	98.7	99.5	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 819

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	20.0	32.3	32.9	32.9	33.3	33.3	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 20000	20.9	35.9	36.5	36.5	36.9	36.9	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 18000	21.5	36.5	37.1	37.1	37.5	37.5	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 16000	21.5	36.5	37.1	37.1	37.5	37.5	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 14000	21.5	36.7	37.3	37.3	37.7	37.7	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
≥ 12000	22.1	37.7	38.3	38.3	38.7	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 10000	22.5	38.7	39.3	39.3	39.8	39.8	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 9000	22.5	38.7	39.3	39.3	39.8	39.8	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 8000	23.7	39.9	40.5	40.7	41.2	41.4	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 7000	23.9	40.3	40.9	41.0	41.6	42.0	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 6000	24.4	40.9	41.5	41.6	42.3	42.8	43.4	43.4	43.4	43.4	43.4	43.5	43.5	43.5	43.5	43.5
≥ 5000	24.8	41.4	42.0	42.1	42.8	43.4	44.0	44.0	44.0	44.0	44.0	44.1	44.1	44.1	44.1	44.1
≥ 4500	25.2	41.9	42.5	42.6	43.2	43.9	44.5	44.5	44.5	44.5	44.5	44.6	44.6	44.6	44.6	44.6
≥ 4000	25.3	42.1	42.7	43.0	43.6	44.2	44.8	44.8	45.0	45.0	45.0	45.1	45.1	45.1	45.1	45.1
≥ 3500	26.3	43.7	44.5	44.7	45.6	46.2	46.8	46.8	46.9	46.9	46.9	47.1	47.1	47.1	47.1	47.1
≥ 3000	27.4	46.1	46.9	47.2	48.3	48.9	49.5	49.5	49.6	49.6	49.6	49.8	49.8	49.8	49.8	49.8
≥ 2500	29.6	53.1	54.3	54.9	56.6	57.4	58.0	58.0	58.1	58.1	58.1	58.2	58.4	58.4	58.4	58.4
≥ 2000	32.8	60.6	62.3	63.1	65.2	66.1	67.1	67.2	67.3	67.3	67.3	67.4	67.6	67.6	67.6	67.6
≥ 1800	33.7	63.1	65.1	66.1	68.4	69.5	70.8	71.1	71.3	71.3	71.4	71.5	71.6	71.6	71.6	71.6
≥ 1500	35.0	68.8	71.1	72.5	75.4	77.3	78.9	80.0	80.1	80.5	80.8	81.2	81.3	81.4	81.4	81.4
≥ 1200	35.7	71.7	74.3	76.3	79.6	81.4	83.2	84.5	84.6	85.3	85.7	86.1	86.2	86.4	86.4	86.4
≥ 1000	36.0	73.3	76.4	78.5	82.3	84.8	86.7	88.1	88.2	89.3	89.8	90.2	90.3	90.4	90.4	90.4
≥ 900	36.0	73.5	76.5	78.6	82.4	84.9	87.0	88.5	88.6	89.9	90.5	90.9	91.0	91.2	91.2	91.2
≥ 800	36.1	73.8	77.1	79.4	83.2	85.7	88.3	90.2	90.3	91.8	92.5	92.9	93.0	93.1	93.1	93.1
≥ 700	36.2	74.2	77.6	79.9	83.9	86.5	89.4	91.5	91.8	93.5	94.3	94.7	94.8	95.0	95.0	95.0
≥ 600	36.2	74.4	77.9	80.1	84.3	86.9	89.8	92.0	92.3	94.0	94.8	95.2	95.3	95.5	95.5	95.5
≥ 500	36.2	74.6	78.1	80.3	84.5	87.1	90.0	92.5	92.8	94.6	95.6	95.9	96.1	96.2	96.2	96.2
≥ 400	36.2	74.7	78.4	80.6	85.1	87.7	90.7	93.1	93.4	95.2	96.3	96.7	96.8	97.1	97.2	97.2
≥ 300	36.2	74.7	78.4	80.6	85.1	87.8	90.9	93.4	93.6	95.8	97.1	97.4	97.5	98.0	98.3	98.3
≥ 200	36.2	74.7	78.4	80.6	85.1	87.8	90.9	93.4	93.6	95.8	97.2	97.7	97.8	98.3	98.6	98.9
≥ 100	36.2	74.7	78.4	80.6	85.1	87.8	90.9	93.4	93.6	95.8	97.2	97.7	97.9	98.4	99.1	99.8
≥ 0	36.2	74.7	78.4	80.6	85.1	87.8	90.9	93.4	93.6	95.8	97.2	97.7	97.9	98.4	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 814

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	20.5	33.2	33.5	33.5	33.5	33.6	33.7	33.7	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 20000	22.7	37.4	37.5	37.7	37.8	37.9	38.0	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 18000	23.2	37.9	38.0	38.1	38.3	38.4	38.5	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 16000	23.2	37.9	38.0	38.1	38.3	38.4	38.5	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 14000	23.2	37.9	38.0	38.1	38.3	38.4	38.5	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 12000	23.6	39.1	39.3	39.4	39.5	39.6	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 10000	24.3	41.1	41.2	41.4	41.5	41.6	41.7	41.7	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 9000	24.4	41.4	41.5	41.6	41.7	41.9	42.0	42.0	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 8000	25.4	42.6	42.7	43.1	43.2	43.6	43.7	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 7000	26.3	43.5	43.6	44.0	44.1	44.4	44.6	44.6	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 6000	26.4	43.7	43.8	44.2	44.4	44.8	44.9	44.9	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 5000	26.5	44.1	44.3	44.7	44.9	45.3	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 4500	27.3	45.2	45.4	45.8	46.0	46.4	46.5	46.5	46.5	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 4000	27.8	45.9	46.2	46.5	46.8	47.2	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 3500	28.3	47.0	47.8	48.1	48.5	48.9	49.0	49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 3000	30.4	49.9	50.6	51.0	51.4	51.7	51.9	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 2500	34.2	57.3	58.0	58.6	59.3	59.6	59.9	60.0	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 2000	37.5	66.5	67.5	69.1	70.4	70.9	71.5	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 1800	38.5	69.3	70.2	72.0	73.6	74.1	74.7	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 1500	40.7	74.6	76.0	78.0	79.8	80.5	81.4	82.3	82.3	82.8	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1200	41.9	78.0	79.5	81.5	83.8	84.8	86.3	87.3	87.3	87.8	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1000	41.9	79.4	80.6	82.8	85.6	87.2	88.9	90.1	90.1	90.7	91.4	91.4	91.6	91.6	91.6	91.6
≥ 900	41.9	79.1	80.7	83.0	85.7	87.5	89.4	90.6	90.6	91.2	91.9	92.0	92.2	92.2	92.2	92.2
≥ 800	41.9	79.3	80.9	83.3	86.0	87.9	90.0	91.2	91.2	91.9	92.5	92.6	92.8	92.8	92.8	92.8
≥ 700	41.9	79.3	80.9	83.3	86.0	88.0	90.2	92.0	92.0	92.6	93.5	93.6	94.0	94.1	94.1	94.1
≥ 600	41.9	79.3	81.0	83.5	86.3	88.3	90.5	92.3	92.5	93.6	94.4	94.7	95.1	95.2	95.2	95.2
≥ 500	41.9	79.4	81.1	83.6	86.5	88.6	90.9	92.7	92.8	94.0	95.1	95.6	96.2	96.3	96.3	96.3
≥ 400	41.9	79.4	81.1	83.6	86.5	88.6	91.2	93.1	93.2	94.6	95.7	96.2	96.8	96.9	96.9	96.9
≥ 300	41.9	79.4	81.1	83.6	86.8	88.9	91.5	93.6	93.7	95.1	96.2	96.8	97.4	97.5	97.5	97.5
≥ 200	41.9	79.4	81.1	83.6	86.8	88.9	91.7	93.8	94.0	95.7	96.8	97.5	98.4	98.6	98.6	99.1
≥ 100	41.9	79.4	81.1	83.6	86.8	88.9	91.7	93.8	94.0	95.7	96.8	97.5	98.4	98.6	98.9	99.6
≥ 0	41.9	79.4	81.1	83.6	86.8	88.9	91.7	93.8	94.0	95.7	96.8	97.5	98.4	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	22.7	35.4	35.7	35.8	36.0	36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.6	36.6	36.6	36.6
≥ 20000	23.7	37.4	37.6	37.7	38.0	38.2	38.5	38.5	38.5	38.5	38.5	38.5	38.6	38.6	38.6	38.6
≥ 18000	23.8	37.5	37.7	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	38.7	38.7
≥ 16000	23.8	37.5	37.7	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	38.7	38.7
≥ 14000	23.8	37.5	37.7	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	38.7	38.7
≥ 12000	24.5	38.5	38.7	38.8	39.1	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.7	39.7	39.7	39.7
≥ 10000	25.0	39.6	39.8	39.9	40.2	40.4	40.7	40.7	40.7	40.7	40.7	40.7	40.8	40.8	40.8	40.8
≥ 9000	25.3	39.8	40.0	40.2	40.4	40.7	40.9	40.9	40.9	40.9	40.9	40.9	41.0	41.0	41.0	41.0
≥ 8000	26.3	41.9	42.2	42.4	42.9	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.5	43.5	43.5	43.5
≥ 7000	27.0	42.9	43.2	43.3	43.8	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.4	44.4	44.4	44.4
≥ 6000	27.2	43.5	43.8	44.0	44.4	44.7	45.1	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.3
≥ 5000	28.6	45.3	45.7	45.8	46.3	46.5	46.9	47.0	47.0	47.0	47.0	47.0	47.1	47.1	47.1	47.1
≥ 4500	30.3	47.7	48.4	48.5	49.0	49.2	49.6	49.7	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8
≥ 4000	30.4	48.1	48.7	48.8	49.3	49.6	49.9	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.2	50.2
≥ 3500	31.4	49.6	50.8	50.9	51.4	51.8	52.1	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4
≥ 3000	32.8	53.2	54.8	54.9	55.4	55.8	56.2	56.3	56.3	56.3	56.3	56.3	56.4	56.4	56.4	56.4
≥ 2500	38.0	61.5	63.5	63.6	64.6	65.1	65.4	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
≥ 2000	40.9	68.3	70.3	70.8	72.4	72.9	73.6	74.0	74.1	74.2	74.2	74.2	74.4	74.4	74.4	74.4
≥ 1800	42.1	71.2	73.4	74.2	75.8	76.4	77.2	77.8	77.9	78.0	78.0	78.0	78.1	78.1	78.1	78.1
≥ 1500	43.8	75.1	78.1	79.5	81.2	81.8	82.7	83.9	84.0	84.2	84.5	84.5	84.6	84.6	84.6	84.6
≥ 1200	44.7	77.7	81.0	82.4	84.4	85.1	86.2	87.4	87.5	87.9	88.2	88.2	88.3	88.3	88.3	88.3
≥ 1000	44.8	78.8	82.1	83.5	85.7	86.7	87.9	89.6	89.7	90.5	90.7	90.7	90.8	90.8	90.8	90.8
≥ 900	44.8	78.8	82.2	83.6	85.8	86.9	88.3	90.2	90.4	91.5	91.7	91.7	91.8	91.8	91.8	91.8
≥ 800	44.8	79.2	82.7	84.4	86.6	87.8	89.4	91.7	91.8	93.2	93.5	93.5	93.7	93.7	93.7	93.7
≥ 700	44.8	79.6	83.2	85.0	87.3	88.5	90.2	92.7	92.8	94.1	94.6	94.6	94.7	94.7	94.7	94.7
≥ 600	44.8	79.6	83.2	85.0	87.3	88.5	90.4	92.8	93.2	94.5	95.1	95.1	95.2	95.2	95.2	95.2
≥ 500	44.8	79.6	83.2	85.0	87.3	88.5	90.4	92.9	93.4	94.7	95.4	95.6	95.7	95.7	95.7	95.7
≥ 400	44.8	79.6	83.2	85.1	87.5	89.1	91.1	93.8	94.3	95.6	96.2	96.5	96.8	96.8	97.1	97.1
≥ 300	44.8	79.6	83.2	85.3	88.0	89.9	91.8	94.5	95.0	96.5	97.2	97.4	98.2	98.2	98.4	98.4
≥ 200	44.8	79.6	83.2	85.3	88.0	89.9	91.9	94.6	95.1	96.9	97.7	97.9	98.7	99.0	99.3	99.8
≥ 100	44.8	79.6	83.2	85.3	88.0	89.9	91.9	94.6	95.1	96.9	97.7	97.9	98.7	99.0	99.3	99.8
≥ 0	44.8	79.6	83.2	85.3	88.0	89.9	91.9	94.6	95.1	96.9	97.7	97.9	98.7	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 819

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 7/8	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥5/8	≥1/2	≥5/16	≥1/4	≥0
NO CEILING	19.0	32.3	32.7	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.3
≥ 20000	19.9	34.0	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.9	34.9	34.9	34.9	34.9	35.0
≥ 18000	19.9	34.0	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.9	34.9	34.9	34.9	34.9	35.0
≥ 16000	19.9	34.0	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.9	34.9	34.9	34.9	34.9	35.0
≥ 14000	19.9	34.0	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.9	34.9	34.9	34.9	34.9	35.0
≥ 12000	20.0	34.2	34.5	34.9	34.9	34.9	34.9	34.9	34.9	34.9	35.0	35.0	35.0	35.0	35.0	35.1
≥ 10000	21.0	35.3	35.6	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.1	36.1	36.1	36.1	36.1	36.2
≥ 9000	21.1	35.4	35.7	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.4	36.4	36.4	36.4	36.4	36.5
≥ 8000	21.6	36.4	37.0	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.8
≥ 7000	22.2	37.5	38.0	38.5	38.6	38.6	38.6	38.7	38.7	38.7	38.8	38.8	38.8	38.8	38.8	38.9
≥ 6000	22.6	38.1	38.7	39.2	39.3	39.3	39.3	39.4	39.4	39.4	39.6	39.6	39.6	39.6	39.6	39.7
≥ 5000	23.6	39.3	39.9	40.4	40.5	40.5	40.5	40.7	40.7	40.7	40.8	40.8	40.8	40.8	40.8	40.9
≥ 4500	24.4	41.5	42.1	42.6	42.9	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.4
≥ 4000	25.1	42.1	43.0	43.6	43.9	43.9	43.9	44.1	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.5
≥ 3500	26.8	45.0	45.9	46.9	47.2	47.3	47.3	47.5	47.5	47.5	47.7	47.7	47.7	47.7	47.7	47.8
≥ 3000	28.4	48.9	49.9	50.9	51.2	51.4	51.4	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8	52.0
≥ 2500	32.6	56.1	57.5	58.6	59.6	59.7	59.7	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.3
≥ 2000	35.0	62.0	63.8	65.5	67.6	68.3	68.8	69.2	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.5
≥ 1800	36.5	65.4	67.5	69.0	71.4	72.2	72.9	73.2	73.5	73.3	73.5	73.5	73.5	73.5	73.5	73.6
≥ 1500	39.5	72.6	75.4	77.5	80.5	81.6	82.6	83.3	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.7
≥ 1200	39.7	74.1	77.3	79.5	82.6	83.8	84.9	85.6	85.7	85.9	86.0	86.0	86.0	86.0	86.0	86.1
≥ 1000	39.8	76.0	79.2	81.8	85.1	86.5	87.6	88.8	88.9	89.6	89.7	89.7	89.7	89.7	89.7	89.8
≥ 900	39.8	76.7	80.0	82.6	86.1	87.5	88.6	89.8	89.9	90.5	90.8	90.8	90.8	90.8	90.8	90.9
≥ 800	40.0	77.5	81.0	83.8	87.5	88.8	90.0	91.4	91.6	92.3	92.5	92.5	92.5	92.5	92.5	92.6
≥ 700	40.0	77.8	81.2	84.2	88.0	89.5	90.5	92.1	92.4	93.2	93.6	93.6	93.6	93.9	93.9	94.0
≥ 600	40.0	77.9	81.3	84.3	88.1	89.6	90.8	92.8	93.2	94.3	94.7	94.7	94.7	95.0	95.0	95.1
≥ 500	40.0	78.0	81.7	84.6	88.5	90.0	91.3	93.2	93.7	95.1	95.5	95.7	95.8	96.1	96.1	96.2
≥ 400	40.0	78.1	81.8	84.9	88.7	90.3	91.8	93.7	94.2	95.6	95.9	96.2	96.4	96.7	96.7	96.8
≥ 300	40.0	78.1	81.8	85.1	89.1	90.7	92.1	94.1	94.6	95.9	96.6	96.8	97.5	97.8	97.9	98.0
≥ 200	40.0	78.1	81.8	85.3	89.2	90.8	92.5	94.5	95.2	96.6	97.2	97.4	98.5	98.8	99.0	99.4
≥ 100	40.0	78.1	81.8	85.3	89.2	90.8	92.5	94.5	95.2	96.6	97.2	97.5	98.6	99.1	99.5	99.9
≥ 0	40.0	78.1	81.8	85.3	89.2	90.8	92.5	94.5	95.2	96.6	97.2	97.5	98.6	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 814

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST: ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.1	31.2	31.6	31.8	32.0	32.1	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4
≥ 20000	20.0	33.5	33.9	34.1	34.3	34.5	34.7	34.7	34.7	34.8	34.8	34.8	34.9	34.9	34.9	34.9
≥ 18000	20.2	33.7	34.1	34.4	34.6	34.7	34.9	35.0	35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.1
≥ 16000	20.2	33.7	34.1	34.4	34.6	34.7	34.9	35.0	35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.1
≥ 14000	20.3	33.9	34.2	34.5	34.7	34.8	35.0	35.1	35.1	35.1	35.2	35.2	35.2	35.2	35.2	35.2
≥ 12000	20.6	34.4	34.8	35.0	35.2	35.4	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.8	35.8
≥ 10000	21.3	35.7	36.1	36.3	36.5	36.7	36.9	37.0	37.0	37.0	37.1	37.1	37.1	37.1	37.1	37.2
≥ 9000	21.4	35.8	36.2	36.5	36.7	36.9	37.0	37.1	37.1	37.2	37.2	37.2	37.3	37.3	37.3	37.3
≥ 8000	22.1	37.0	37.5	37.8	38.0	38.3	38.5	38.6	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.8
≥ 7000	22.7	37.8	38.2	38.6	38.9	39.2	39.3	39.5	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.6
≥ 6000	23.0	38.3	38.7	39.1	39.4	39.7	39.9	40.0	40.0	40.1	40.1	40.2	40.2	40.2	40.2	40.2
≥ 5000	23.6	39.3	39.9	40.2	40.6	40.9	41.1	41.3	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4
≥ 4500	24.5	40.7	41.4	41.8	42.2	42.5	42.7	42.8	42.8	42.9	43.0	43.0	43.0	43.0	43.0	43.0
≥ 4000	24.7	41.2	41.8	42.3	42.7	43.0	43.2	43.4	43.4	43.4	43.5	43.5	43.5	43.5	43.5	43.5
≥ 3500	25.7	43.0	43.9	44.4	44.9	45.2	45.4	45.6	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.8
≥ 3000	27.4	46.3	47.5	48.1	48.6	49.0	49.2	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.6
≥ 2500	31.1	53.3	54.8	55.6	56.6	57.0	57.3	57.5	57.5	57.6	57.7	57.8	57.8	57.8	57.8	57.8
≥ 2000	33.8	60.4	62.4	63.7	65.5	66.3	67.0	67.4	67.4	67.6	67.7	67.7	67.8	67.8	67.8	67.9
≥ 1800	34.8	62.9	65.1	66.6	68.6	69.5	70.3	70.7	70.8	70.9	71.1	71.1	71.2	71.2	71.3	71.3
≥ 1500	36.9	68.7	71.4	73.3	75.9	77.0	78.4	79.2	79.3	79.6	80.0	80.0	80.1	80.2	80.2	80.2
≥ 1200	38.1	72.0	75.0	77.1	80.0	81.3	82.9	83.8	83.9	84.3	84.7	84.8	84.9	84.9	85.0	85.0
≥ 1000	38.4	74.0	77.1	79.5	82.8	84.3	86.3	87.5	87.6	88.4	89.0	89.0	89.2	89.2	89.2	89.3
≥ 900	38.6	74.4	77.7	80.0	83.5	85.0	87.1	88.4	88.4	89.4	90.0	90.0	90.2	90.2	90.3	90.3
≥ 800	38.7	75.0	78.3	80.9	84.4	86.0	88.2	89.7	89.8	90.9	91.5	91.7	91.8	91.9	91.9	91.9
≥ 700	38.8	75.4	78.8	81.5	85.0	86.7	89.0	90.8	90.9	92.0	92.9	93.0	93.2	93.3	93.4	93.4
≥ 600	38.8	75.6	79.0	81.8	85.4	87.1	89.6	91.5	91.7	93.0	93.9	94.0	94.2	94.4	94.4	94.5
≥ 500	38.8	75.8	79.3	82.1	85.8	87.6	90.1	92.2	92.5	93.9	95.0	95.4	95.6	95.8	95.9	95.9
≥ 400	38.8	75.9	79.4	82.3	86.1	88.0	90.6	92.8	93.1	94.6	95.8	96.1	96.5	96.9	97.0	97.0
≥ 300	38.8	75.9	79.5	82.4	86.3	88.3	90.9	93.3	93.6	95.2	96.5	96.9	97.4	97.7	97.9	97.9
≥ 200	38.8	75.9	79.5	82.4	86.3	88.3	91.1	93.4	93.9	95.6	97.1	97.5	98.2	98.7	99.0	99.3
≥ 100	38.8	75.9	79.5	82.4	86.3	88.3	91.1	93.5	93.9	95.6	97.1	97.6	98.3	98.9	99.3	99.7
≥ 0	38.8	75.9	79.5	82.5	86.3	88.3	91.1	93.5	93.9	95.6	97.2	97.6	98.4	98.9	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6519

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200 HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	23.6	39.5	40.7	40.8	41.4	41.5	41.5	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.9	41.9
≥ 20000	25.7	42.0	43.5	43.8	44.3	44.5	44.5	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.9	44.9
≥ 18000	25.7	42.0	43.5	43.8	44.3	44.5	44.5	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.9	44.9
≥ 16000	25.7	42.0	43.5	43.8	44.3	44.5	44.5	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.9	44.9
≥ 14000	25.9	42.3	43.8	44.1	44.6	44.7	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1	45.1
≥ 12000	26.2	42.6	44.2	44.5	45.0	45.1	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5
≥ 10000	26.5	43.5	45.1	45.4	45.9	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.5	46.5
≥ 9000	26.6	43.8	45.4	45.7	46.2	46.4	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.8	46.8
≥ 8000	28.1	45.5	47.2	47.4	48.0	48.1	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.5	48.5
≥ 7000	28.8	47.2	48.6	49.1	49.6	49.7	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.1	50.1
≥ 6000	29.3	48.0	49.6	49.9	50.7	50.8	50.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2
≥ 5000	30.4	50.8	53.1	53.4	54.3	54.5	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.9	54.9
≥ 4500	31.4	52.4	55.1	55.5	56.5	56.6	56.6	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.0	57.0
≥ 4000	31.8	53.6	56.5	56.9	57.8	58.0	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.4	58.4
≥ 3500	32.7	55.5	58.5	58.9	59.9	60.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.4
≥ 3000	35.3	60.3	63.8	64.3	65.4	65.5	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9
≥ 2500	36.6	64.5	68.2	68.8	70.0	70.1	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5
≥ 2000	38.6	69.9	74.3	75.1	76.5	76.8	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.6	77.6
≥ 1800	39.6	71.6	76.6	77.6	79.1	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1
≥ 1500	40.1	75.8	81.4	82.6	84.6	84.9	85.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.4	86.4
≥ 1200	40.7	78.0	83.8	85.1	87.2	87.4	88.1	88.8	88.8	89.1	89.1	89.1	89.1	89.1	89.2	89.2
≥ 1000	40.7	79.2	85.1	86.8	89.3	89.7	90.5	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.8	91.8
≥ 900	40.7	79.5	85.5	87.3	89.9	90.3	91.2	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.4	92.4
≥ 800	40.8	79.7	85.9	87.7	90.3	90.7	91.8	92.6	92.6	92.8	92.8	92.8	92.8	92.8	93.0	93.0
≥ 700	40.8	80.4	86.8	88.8	91.6	92.0	93.1	94.2	94.3	94.6	94.6	94.6	94.6	94.6	94.7	94.7
≥ 600	40.8	80.5	87.2	89.3	92.2	92.6	93.6	94.7	94.9	95.3	95.3	95.3	95.3	95.3	95.4	95.4
≥ 500	40.9	80.7	87.3	89.7	92.6	93.0	94.3	95.8	95.9	96.5	96.8	96.8	96.8	96.8	96.9	96.9
≥ 400	40.8	80.7	87.3	89.7	92.8	93.2	94.6	96.1	96.2	96.8	97.3	97.3	97.6	97.6	97.7	97.7
≥ 300	40.8	80.8	87.6	90.1	93.2	93.6	95.1	96.6	96.8	97.4	98.1	98.1	98.4	98.4	98.5	98.5
≥ 200	40.8	80.8	87.6	90.1	93.2	93.6	95.4	97.0	97.3	98.0	98.8	98.8	99.1	99.1	99.2	99.2
≥ 100	40.8	80.8	87.6	90.1	93.2	93.6	95.4	97.0	97.3	98.0	98.9	98.9	99.5	99.5	99.7	99.9
≥ 0	40.8	80.8	87.6	90.1	93.2	93.6	95.4	97.0	97.3	98.0	98.9	98.9	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 740

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	21.0	36.2	36.7	37.1	37.6	37.6	37.8	37.9	38.0	38.0	38.0	38.0	38.2	38.2	38.2	38.2
≥ 20000	22.7	38.3	39.2	40.1	40.6	40.6	40.7	40.9	41.0	41.0	41.0	41.0	41.1	41.1	41.1	41.1
≥ 18000	22.7	38.3	39.2	40.1	40.6	40.6	40.7	40.9	41.0	41.0	41.0	41.0	41.1	41.1	41.1	41.1
≥ 16000	22.7	38.3	39.2	40.1	40.6	40.6	40.7	40.9	41.0	41.0	41.0	41.0	41.1	41.1	41.1	41.1
≥ 14000	22.8	38.6	39.5	40.3	40.9	40.9	41.0	41.1	41.3	41.3	41.3	41.3	41.4	41.4	41.4	41.4
≥ 12000	23.3	39.1	40.1	40.9	41.4	41.4	41.5	41.7	41.8	41.8	41.8	41.8	41.9	41.9	41.9	41.9
≥ 10000	23.4	39.9	41.0	41.8	42.3	42.3	42.5	42.6	42.7	42.7	42.7	42.7	42.9	42.9	42.9	42.9
≥ 9000	23.7	40.2	41.3	42.1	42.6	42.6	42.7	42.9	43.0	43.0	43.0	43.0	43.1	43.1	43.1	43.1
≥ 8000	24.9	41.8	42.9	43.7	44.2	44.2	44.4	44.5	44.6	44.6	44.6	44.6	44.8	44.8	44.8	44.8
≥ 7000	25.3	42.7	43.5	44.6	45.2	45.2	45.3	45.4	45.6	45.6	45.6	45.6	45.7	45.7	45.7	45.7
≥ 6000	25.5	43.0	44.1	44.9	45.4	45.4	45.6	45.7	45.8	45.8	45.8	45.8	46.0	46.0	46.0	46.0
≥ 5000	27.4	46.0	47.0	48.1	49.1	49.1	49.2	49.3	49.5	49.5	49.5	49.5	49.6	49.6	49.6	49.6
≥ 4500	28.0	46.8	47.8	48.9	49.9	49.9	50.0	50.1	50.3	50.3	50.3	50.3	50.4	50.4	50.4	50.4
≥ 4000	28.4	48.0	49.3	50.4	51.6	51.6	51.7	51.9	52.0	52.0	52.0	52.0	52.2	52.2	52.2	52.2
≥ 3500	30.0	50.4	51.7	53.0	54.2	54.3	54.4	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8
≥ 1000	32.8	55.9	57.8	59.3	60.5	60.6	60.8	60.9	61.0	61.0	61.0	61.0	61.2	61.2	61.2	61.2
≥ 2500	34.7	60.9	63.3	64.8	66.0	66.1	66.5	66.7	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9
≥ 2000	36.2	65.3	68.3	70.2	71.5	71.6	72.2	72.3	72.4	72.4	72.4	72.4	72.6	72.6	72.6	72.6
≥ 1800	36.6	66.7	69.8	71.6	73.4	73.5	74.1	74.6	74.7	74.7	74.7	74.7	74.9	74.9	74.9	74.9
≥ 1500	38.0	71.2	74.1	76.9	79.6	79.8	80.9	81.7	81.9	82.0	82.0	82.0	82.1	82.1	82.1	82.1
≥ 1200	38.6	74.1	78.5	80.9	83.7	84.1	85.2	86.0	86.3	86.4	86.4	86.4	86.6	86.6	86.6	86.6
≥ 1000	38.8	75.5	80.6	83.3	86.6	87.1	88.4	89.5	89.8	90.1	90.1	90.1	90.2	90.2	90.2	90.2
≥ 900	39.0	75.9	81.0	83.7	87.0	87.5	88.8	89.9	90.2	90.5	90.5	90.5	90.6	90.6	90.6	90.6
≥ 800	39.0	76.2	81.3	84.1	87.6	88.2	89.5	90.6	90.9	91.1	91.3	91.3	91.4	91.4	91.4	91.4
≥ 700	39.1	76.5	81.6	84.5	88.3	88.8	90.3	91.4	91.7	91.9	92.1	92.1	92.2	92.2	92.2	92.2
≥ 600	39.1	76.9	82.1	85.3	89.1	89.7	91.1	92.2	92.6	93.0	93.3	93.3	93.4	93.4	93.4	93.4
≥ 500	39.1	77.2	82.4	85.6	89.5	90.1	91.9	93.1	93.5	94.4	94.8	94.8	95.3	95.3	95.3	95.3
≥ 400	39.1	77.3	82.5	86.3	90.2	91.1	93.3	94.5	95.0	95.8	96.4	96.4	97.0	97.0	97.2	97.2
≥ 300	39.1	77.3	82.5	86.4	90.3	91.3	93.5	94.8	95.4	96.4	96.9	96.9	97.6	97.6	97.7	97.7
≥ 200	39.1	77.3	82.5	86.4	90.3	91.3	94.0	95.3	96.2	97.2	97.8	97.8	98.5	98.5	99.1	99.1
≥ 100	39.1	77.3	82.5	86.4	90.3	91.3	94.0	95.3	96.2	97.3	98.1	98.1	98.8	98.8	99.5	99.7
≥ 0	39.1	77.3	82.5	86.4	90.3	91.3	94.0	95.3	96.2	97.3	98.1	98.1	98.8	98.8	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 744

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	17.4	30.3	31.1	31.8	32.8	32.8	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.4
≥ 20000	18.8	32.2	33.1	33.8	35.0	35.0	35.1	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.6
≥ 18000	19.0	32.3	33.2	33.9	35.1	35.1	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.8
≥ 16000	19.0	32.3	33.2	33.9	35.1	35.1	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.8
≥ 14000	19.0	32.3	33.2	33.9	35.1	35.1	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.8
≥ 12000	19.4	33.1	34.0	34.7	35.9	35.9	36.0	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.6
≥ 10000	19.3	33.6	34.6	35.2	36.4	36.6	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.2
≥ 9000	19.6	34.2	35.1	35.8	37.0	37.1	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.8
≥ 8000	21.6	37.1	38.1	38.9	40.1	40.2	40.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.9
≥ 7000	22.2	38.2	39.1	39.9	41.1	41.3	41.5	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.1
≥ 6000	22.8	39.5	40.5	41.3	42.5	42.6	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.4
≥ 5000	23.6	41.5	42.5	43.3	44.6	44.7	45.0	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.7
≥ 4500	24.7	43.4	44.5	45.4	46.7	47.0	47.3	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.9
≥ 4000	24.8	44.3	45.5	46.6	47.9	48.2	48.5	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	49.1
≥ 3500	26.4	47.0	48.3	49.5	51.0	51.3	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.3
≥ 3000	28.4	50.1	51.7	53.1	54.6	54.9	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.9
≥ 2500	31.4	54.9	57.3	59.5	61.5	61.8	62.5	62.9	62.9	62.9	63.0	63.2	63.2	63.2	63.2	63.4
≥ 2000	31.9	58.2	61.0	63.7	66.2	67.0	68.1	68.8	68.8	68.8	69.0	69.2	69.2	69.2	69.2	69.4
≥ 1800	33.0	59.5	62.8	65.6	68.4	69.2	70.4	71.3	71.3	71.3	71.6	71.7	71.7	71.7	71.7	72.0
≥ 1500	35.0	64.9	68.1	71.6	75.4	76.4	78.2	79.4	79.6	79.8	80.1	80.2	80.2	80.2	80.2	80.5
≥ 1200	35.6	67.6	71.3	75.2	79.4	80.4	82.2	84.1	84.2	84.5	84.8	84.9	84.9	84.9	84.9	85.2
≥ 1000	36.0	69.3	73.4	77.3	81.7	82.9	84.9	87.0	87.2	87.6	88.1	88.3	88.4	88.4	88.4	88.7
≥ 900	36.0	69.4	73.6	77.4	81.8	83.0	85.0	87.3	87.4	87.9	88.7	88.8	88.9	88.9	88.9	89.2
≥ 800	36.2	70.2	75.0	79.2	83.6	84.9	86.9	89.2	89.3	89.9	90.8	90.9	91.1	91.1	91.1	91.3
≥ 700	36.3	71.2	76.1	80.5	85.0	86.5	88.7	90.9	91.1	91.6	92.5	92.8	93.1	93.1	93.1	93.3
≥ 600	36.3	71.2	76.1	80.5	85.0	86.5	88.7	91.1	91.2	91.7	92.7	92.9	93.2	93.2	93.2	93.5
≥ 500	36.3	71.3	76.4	80.9	85.4	86.9	89.2	91.9	92.0	92.5	93.6	94.0	94.3	94.3	94.3	94.5
≥ 400	36.3	71.4	76.6	81.6	86.2	88.0	90.4	93.1	93.2	93.7	94.8	95.2	95.5	95.5	95.5	95.7
≥ 300	36.3	71.4	76.6	81.6	86.2	88.0	90.4	93.1	93.5	94.1	95.2	95.7	96.5	96.5	96.5	96.8
≥ 200	36.3	71.4	76.6	81.6	86.4	88.1	90.7	93.7	94.3	95.1	96.3	96.9	97.9	97.9	98.5	98.9
≥ 100	36.3	71.4	76.8	81.7	86.5	88.3	90.8	93.9	94.4	95.2	96.4	97.1	98.0	98.1	99.1	100.0
≥ 0	36.3	71.4	76.8	81.7	86.5	88.3	90.8	93.9	94.4	95.2	96.4	97.1	98.0	98.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 149

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

STATION	STATION NAME	YEARS	MONTH
74859	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOUR (LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.4	33.9	34.6	35.2	35.8	36.0	36.3	36.6	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 20000	21.3	37.5	38.3	39.2	39.8	40.0	40.6	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 18000	21.3	37.5	38.3	39.2	39.8	40.0	40.6	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 16000	21.3	37.5	38.3	39.2	39.8	40.0	40.6	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 14000	21.3	37.5	38.3	39.2	39.8	40.0	40.6	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 12000	21.4	38.2	39.0	39.9	40.4	40.7	41.2	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 10000	21.9	38.6	39.4	40.4	41.1	41.4	41.9	42.2	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 9000	22.1	39.1	39.9	41.0	41.6	41.9	42.4	42.7	42.7	42.8	42.8	42.8	42.8	42.9	42.8	42.8
≥ 8000	22.7	40.7	41.6	43.0	43.8	44.0	44.5	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 7000	23.1	41.8	42.7	44.0	44.9	45.2	45.7	46.1	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 6000	23.4	42.6	43.5	44.8	45.9	46.3	46.8	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 5000	24.1	44.1	45.2	46.8	48.0	48.4	48.9	49.3	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 4500	24.9	45.6	46.7	48.3	49.5	49.9	5[illegible].4	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 4000	25.3	46.3	47.3	48.9	50.1	50.5	51.2	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3500	26.9	48.8	50.0	51.6	52.8	53.5	54.3	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 3000	27.8	50.4	51.7	53.3	54.8	55.5	56.4	56.9	56.9	57.0	57.2	57.2	57.2	57.2	57.2	57.2
≥ 2500	29.0	52.9	54.7	56.5	58.5	59.2	60.4	61.2	61.2	61.3	61.4	61.6	61.6	61.6	61.6	61.6
≥ 2000	30.5	56.1	58.0	60.4	62.9	64.0	65.8	67.2	67.3	68.1	68.2	68.4	68.5	68.5	68.5	68.5
≥ 1800	30.9	56.9	59.0	61.6	64.6	66.0	68.1	69.4	69.9	70.7	71.0	71.1	71.3	71.3	71.3	71.3
≥ 1500	33.1	61.3	64.1	67.4	71.4	73.7	76.3	77.7	78.2	79.5	80.2	80.3	80.6	80.6	80.6	80.6
≥ 1200	33.5	64.0	66.9	70.7	75.0	77.3	79.9	82.0	82.6	84.0	84.8	85.0	85.2	85.2	85.2	85.2
≥ 1000	34.2	65.7	68.9	72.9	77.3	79.5	82.2	84.7	85.5	87.2	88.3	88.4	88.8	88.8	88.8	88.8
≥ 900	34.2	66.4	69.5	73.7	78.1	80.3	83.1	85.6	86.6	88.4	89.6	89.8	90.2	90.2	90.2	90.2
≥ 800	34.2	66.8	69.9	74.3	79.1	81.6	84.6	87.4	88.3	90.2	91.9	92.0	92.4	92.4	92.4	92.4
≥ 700	34.2	67.0	70.2	75.0	79.8	82.7	85.8	88.6	89.5	91.4	93.1	93.2	93.6	93.6	93.6	93.6
≥ 600	34.2	67.4	70.7	75.7	80.7	83.6	86.8	89.6	90.6	92.4	94.4	94.7	95.2	95.2	95.2	95.2
≥ 500	34.2	67.4	70.7	75.7	80.9	83.8	87.0	89.9	90.8	93.0	95.1	95.3	96.0	96.0	96.1	96.1
≥ 400	34.2	67.4	70.7	75.8	81.1	84.2	87.4	90.3	91.5	93.6	95.9	96.3	97.2	97.2	97.3	97.3
≥ 300	34.2	67.4	70.7	75.8	81.1	84.3	87.5	90.7	91.9	94.0	96.7	97.1	98.0	98.0	98.3	98.3
≥ 200	34.2	67.4	70.7	75.8	81.1	84.4	87.6	90.8	92.2	94.4	97.2	97.6	98.7	98.8	99.5	99.5
≥ 100	34.2	67.4	70.7	75.8	81.1	84.4	87.6	90.8	92.2	94.4	97.2	97.6	98.7	98.8	99.5	99.9
≥ 0	34.2	67.4	70.7	75.8	81.1	84.4	87.6	90.8	92.2	94.4	97.2	97.6	98.7	98.9	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 752

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

7[illegible]39 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.3	31.1	32.4	32.5	32.5	32.7	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 20000	21.1	36.5	37.2	37.3	37.5	37.6	37.8	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 18000	21.7	36.8	37.6	37.8	37.9	38.0	38.2	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 16000	21.7	36.8	37.6	37.8	37.9	38.0	38.2	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 14000	22.1	37.5	38.3	38.4	38.6	38.7	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 12000	22.7	38.7	39.5	39.6	39.8	39.9	40.0	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 10000	23.4	40.0	40.8	41.0	41.1	41.2	41.4	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 9000	23.4	40.0	40.8	41.0	41.1	41.2	41.4	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 8000	23.7	40.8	41.6	41.8	42.0	42.2	42.3	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 7000	24.4	41.5	42.4	42.6	43.0	43.1	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 6000	24.9	41.9	42.8	43.1	43.6	43.8	43.9	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 5000	25.3	43.0	43.9	44.3	44.8	45.1	45.2	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 4500	25.6	43.4	44.3	44.7	45.2	45.5	45.6	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 4000	26.1	44.2	45.1	45.6	46.2	46.5	46.6	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 3500	27.1	46.1	47.0	47.5	48.1	48.3	48.5	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 3000	29.3	49.5	50.5	51.0	51.8	52.1	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 2500	31.8	55.3	56.4	57.2	58.0	58.5	58.6	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 2000	34.1	61.6	63.2	64.8	66.4	67.2	67.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 1800	35.9	63.6	65.3	67.2	69.2	70.1	70.7	72.2	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4
≥ 1500	37.5	68.3	71.0	74.4	76.8	78.2	78.8	80.9	81.0	81.3	81.5	81.5	81.7	81.7	81.7	81.7
≥ 1200	37.6	71.4	74.6	78.3	81.1	82.6	83.8	86.1	86.3	87.3	88.1	88.1	88.4	88.4	88.4	88.4
≥ 1000	37.9	72.6	76.2	80.3	83.4	84.9	86.3	88.8	89.0	90.0	90.9	91.0	91.3	91.3	91.3	91.3
≥ 900	38.1	72.1	76.6	80.9	84.1	85.5	87.5	90.1	90.4	91.3	92.2	92.4	92.6	92.6	92.6	92.6
≥ 800	38.1	72.8	76.7	81.1	84.9	86.3	88.1	91.0	91.3	92.2	93.3	93.6	93.8	93.8	93.8	93.8
≥ 700	38.0	72.8	76.7	81.4	85.4	87.1	89.0	92.0	92.2	93.2	94.6	94.9	95.2	95.2	95.2	95.2
≥ 600	38.0	72.8	76.7	81.4	85.5	87.4	89.3	92.2	92.5	93.6	95.3	95.7	96.0	96.0	96.0	96.0
≥ 500	38.0	73.0	76.8	81.5	85.7	87.6	89.6	92.6	92.9	94.1	95.9	96.4	96.8	96.8	96.8	96.8
≥ 400	38.0	73.0	76.8	81.5	85.8	88.0	90.1	93.3	93.8	95.0	96.9	97.5	97.9	97.9	97.9	97.9
≥ 300	38.0	73.0	77.0	81.7	85.9	88.1	90.2	93.6	94.1	95.4	97.3	97.9	98.8	98.8	98.8	98.8
≥ 200	38.0	73.0	77.0	81.7	85.9	88.1	90.4	93.7	94.2	95.9	97.7	98.3	99.2	99.3	99.5	99.5
≥ 100	38.0	73.0	77.0	81.7	85.9	88.1	90.4	93.7	94.2	96.0	97.9	98.4	99.3	99.5	99.6	99.9
≥ 0	38.0	73.0	77.0	81.7	85.9	88.1	90.4	93.7	94.2	96.0	97.9	98.4	99.3	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 747

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	23.2	34.9	35.3	35.6	35.7	35.8	35.8	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 20000	27.6	42.2	42.9	43.1	43.3	43.4	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 18000	27.6	42.3	43.0	43.3	43.4	43.5	43.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 16000	27.6	42.3	43.0	43.3	43.4	43.5	43.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 14000	27.6	42.6	43.3	43.5	43.7	43.8	43.8	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 12000	27.9	43.0	43.7	43.9	44.1	44.2	44.2	44.5	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 10000	28.8	45.4	46.1	46.4	46.5	46.6	46.6	47.0	47.0	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 9000	29.2	45.8	46.5	46.8	46.9	47.0	47.0	47.4	47.4	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 8000	29.9	46.4	47.4	47.8	48.1	48.2	48.2	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 7000	30.5	47.3	48.0	48.5	48.8	48.9	48.9	49.3	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 6000	30.5	47.4	48.1	48.7	48.9	49.1	49.1	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 5000	30.7	48.5	49.2	49.7	50.1	50.3	50.3	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 4500	31.0	49.3	50.0	50.5	50.9	51.1	51.1	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 4000	31.1	49.7	50.4	50.9	51.3	51.5	51.5	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 3500	32.3	51.3	52.2	52.7	53.2	53.4	53.4	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 3000	34.9	55.8	57.1	57.7	58.2	58.4	58.4	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 2500	39.2	63.9	65.5	66.4	67.1	67.3	67.3	67.7	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 2000	41.2	68.1	70.9	72.2	73.5	73.7	74.3	74.7	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1800	42.2	70.4	73.3	74.8	76.3	76.5	77.2	77.8	77.9	78.3	78.4	78.4	78.4	78.4	78.4	78.4
≥ 1500	43.4	74.0	77.2	79.6	82.1	82.5	83.3	84.6	84.9	85.4	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1200	43.7	74.8	78.2	81.0	84.0	84.4	85.2	87.1	87.3	87.9	88.8	88.8	88.8	88.9	88.9	88.9
≥ 1000	44.1	76.0	79.5	82.5	85.4	85.8	86.8	88.9	89.4	91.0	92.5	92.5	92.5	92.6	92.6	92.6
≥ 900	44.2	76.1	79.6	83.2	86.3	86.7	87.6	89.8	90.2	91.8	93.4	93.4	93.4	93.5	93.5	93.5
≥ 800	44.3	76.5	80.3	84.0	87.1	87.6	88.5	90.7	91.1	92.9	94.6	94.9	95.0	95.1	95.1	95.1
≥ 700	44.3	76.5	80.5	84.1	87.3	87.9	88.8	91.1	91.5	93.3	95.0	95.3	95.4	95.6	95.6	95.6
≥ 600	44.3	76.5	80.6	84.2	87.5	88.3	89.2	91.6	92.0	93.8	95.7	96.1	96.2	96.4	96.4	96.4
≥ 500	44.3	76.7	80.7	84.4	87.6	88.4	89.4	91.9	92.5	94.2	96.5	96.9	97.3	97.4	97.4	97.4
≥ 400	44.3	76.7	80.7	84.4	87.9	88.7	89.6	92.3	92.9	94.6	97.0	97.4	97.8	98.0	98.0	98.0
≥ 300	44.3	76.7	80.7	84.4	87.9	88.7	89.6	92.3	92.9	94.6	97.0	97.4	97.8	98.1	98.2	98.2
≥ 200	44.3	76.7	80.7	84.4	87.9	88.7	89.6	92.3	92.9	94.6	97.2	97.6	98.1	98.5	98.9	98.9
≥ 100	44.3	76.7	80.7	84.4	87.9	88.7	89.6	92.3	92.9	94.6	97.2	97.6	98.1	98.5	99.1	99.6
≥ 0	44.3	76.7	80.7	84.4	87.9	88.7	89.6	92.3	92.9	94.6	97.2	97.6	98.1	98.5	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 742

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	24.6	40.4	40.9	41.2	41.2	41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 20000	27.6	45.4	45.9	46.5	46.5	46.6	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 18000	27.9	45.7	46.2	46.7	46.7	46.9	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 16000	27.9	45.7	46.2	46.7	46.7	46.9	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 14000	27.9	45.7	46.2	46.7	46.7	46.9	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 12000	28.8	47.1	47.8	48.4	48.4	48.5	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 10000	29.2	48.2	48.9	49.5	49.5	49.6	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 9000	29.3	48.9	49.6	50.1	50.1	50.3	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 8000	31.0	51.0	51.6	52.3	52.3	52.6	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 7000	31.7	52.3	53.0	53.7	53.7	53.9	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 6000	32.1	53.3	53.9	54.6	54.6	54.9	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 5000	32.3	54.5	55.2	55.8	55.8	56.1	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 4500	33.4	56.5	57.2	57.9	57.9	58.2	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 4000	33.4	57.3	58.0	58.7	58.7	59.0	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 3500	35.9	60.2	60.9	61.7	61.7	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 3000	37.2	63.0	64.1	65.2	65.8	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 2500	39.5	68.1	69.6	71.1	71.9	72.1	72.8	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 2000	40.6	71.2	73.8	75.4	76.4	76.6	77.4	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 1800	41.6	73.1	75.7	77.6	78.5	78.8	79.8	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1500	42.3	77.0	79.9	82.3	83.6	84.1	85.3	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1200	43.2	78.5	81.5	84.0	85.5	86.4	88.2	88.9	89.0	89.1	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1000	43.6	79.5	82.7	85.3	87.2	88.6	90.5	91.3	91.4	92.1	92.4	92.5	92.5	92.5	92.5	92.5
≥ 900	43.6	79.8	83.0	85.6	87.6	89.0	91.0	91.8	92.0	92.8	93.1	93.2	93.2	93.2	93.2	93.2
≥ 800	43.4	80.2	83.6	86.1	88.3	89.7	91.7	92.5	92.7	93.6	94.2	94.3	94.3	94.3	94.3	94.3
≥ 700	43.4	80.2	83.6	86.3	88.5	89.9	92.3	93.1	93.3	94.4	95.0	95.1	95.1	95.1	95.1	95.1
≥ 600	43.4	80.3	83.7	86.4	88.6	90.2	92.5	93.5	93.8	94.8	95.8	96.2	96.2	96.2	96.2	96.2
≥ 500	43.9	80.4	83.8	86.5	88.7	90.4	92.7	93.8	94.0	95.2	96.2	96.6	96.9	96.9	96.9	96.9
≥ 400	43.8	80.6	84.1	86.8	89.3	90.9	93.3	94.4	94.7	96.1	97.1	97.6	98.0	98.1	98.1	98.1
≥ 300	43.9	80.6	84.1	86.8	89.3	90.9	93.5	95.0	95.2	96.7	97.8	98.2	98.6	98.8	98.8	98.8
≥ 200	43.8	80.6	84.1	86.8	89.3	91.0	93.9	95.4	95.7	97.1	98.2	98.6	99.0	99.3	99.5	99.5
≥ 100	43.8	80.6	84.1	86.8	89.3	91.0	93.9	95.4	95.7	97.1	98.2	98.6	99.0	99.3	99.9	100.0
≥ 0	43.8	80.6	84.1	86.8	89.3	91.0	93.9	95.4	95.7	97.1	98.2	98.6	99.0	99.3	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 736

USAF ETAC FORM NO. 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
14659	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	25.3	43.2	43.5	43.5	43.6	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 20000	26.5	45.9	46.2	46.3	46.4	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 18000	26.5	45.9	46.2	46.3	46.4	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 16000	26.5	45.9	46.2	46.3	46.4	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 14000	26.6	46.0	46.3	46.4	46.6	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 12000	26.9	46.4	46.7	46.8	47.0	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 10000	27.5	47.4	47.6	47.9	48.0	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 9000	27.5	47.8	48.0	48.3	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 8000	28.8	49.1	49.4	49.7	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 7000	29.9	50.3	50.6	50.9	51.1	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 6000	30.0	50.9	51.1	51.4	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 5000	30.3	52.4	52.6	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
≥ 4500	31.2	55.0	56.0	56.4	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 4000	31.9	55.9	56.8	57.2	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 3500	33.4	59.4	60.4	60.8	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 3000	35.7	63.8	65.0	65.8	66.6	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 2500	37.3	66.2	67.7	68.8	70.0	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 2000	38.2	70.3	72.1	73.6	75.6	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 1800	38.5	71.9	74.0	75.5	77.9	78.2	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 1500	39.3	76.6	79.4	81.7	84.3	84.7	86.1	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1200	39.7	78.1	81.2	83.6	86.5	87.1	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	40.0	78.7	82.4	85.1	88.3	88.8	90.6	91.0	91.1	91.4	91.4	91.5	91.5	91.5	91.5	91.5
≥ 900	40.0	79.1	82.8	85.5	88.7	89.2	91.1	91.5	91.7	91.9	91.9	92.1	92.1	92.1	92.1	92.1
≥ 800	40.0	79.5	83.2	85.9	89.1	89.8	91.7	92.5	92.6	93.0	93.0	93.1	93.1	93.1	93.1	93.1
≥ 700	40.2	80.1	83.7	86.4	89.6	90.4	92.3	93.1	93.4	94.2	94.2	94.3	94.3	94.3	94.3	94.3
≥ 600	40.2	80.1	83.8	86.8	90.3	91.5	93.4	94.2	94.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7
≥ 500	40.2	80.1	84.0	87.1	90.6	91.8	93.7	94.9	95.2	96.5	96.8	96.9	97.0	97.0	97.0	97.0
≥ 400	40.2	80.1	84.0	87.3	90.8	92.1	93.9	95.2	95.4	96.8	97.2	97.3	97.4	97.7	97.7	97.7
≥ 300	40.2	80.1	84.0	87.6	91.3	92.5	94.3	95.7	96.0	97.4	98.0	98.1	98.3	98.5	98.7	98.7
≥ 200	40.2	80.1	84.0	87.6	91.3	92.5	94.3	95.7	96.0	97.6	98.1	98.3	98.5	98.8	98.9	98.9
≥ 100	40.2	80.1	84.0	87.6	91.3	92.5	94.3	95.7	96.0	97.6	98.5	98.7	98.9	99.2	99.3	99.5
≥ 0	40.2	80.1	84.0	87.6	91.3	92.5	94.3	95.7	96.0	97.6	98.5	98.7	98.9	99.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 743

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

(72639) PHELPS-COLLINS/ALPENA MI 73-81 FEB

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	21.7	36.2	36.9	37.2	37.6	37.7	37.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.1
≥ 20000	24.0	40.0	40.8	41.2	41.6	41.7	41.9	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 18000	24.0	40.1	40.9	41.4	41.8	41.9	42.0	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 16000	24.0	40.1	40.9	41.4	41.8	41.9	42.0	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 14000	24.1	40.3	41.1	41.6	42.0	42.1	42.2	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6
≥ 12000	24.6	41.0	41.8	42.3	42.7	42.8	43.0	43.2	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 10000	25.0	42.1	42.9	43.4	43.8	44.0	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.5	44.5
≥ 9000	25.2	42.4	43.3	43.8	44.2	44.3	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.9	44.9
≥ 8000	26.3	44.1	45.0	45.5	46.0	46.1	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.7
≥ 7000	26.9	45.1	46.0	46.6	47.2	47.3	47.5	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.9
≥ 6000	27.2	45.8	46.7	47.3	47.9	48.0	48.3	48.5	48.5	48.5	48.5	48.5	48.6	48.6	48.6	48.6
≥ 5000	28.5	47.6	48.6	49.3	50.0	50.2	50.4	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 4500	28.7	49.0	50.2	50.9	51.6	51.8	52.0	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4
≥ 4000	29.1	49.9	51.1	51.9	52.6	52.8	53.0	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 3500	30.6	52.3	53.6	54.4	55.2	55.5	55.7	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
≥ 3000	32.7	56.1	57.7	58.7	59.7	59.9	60.2	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 2500	34.8	60.8	62.8	64.1	65.3	65.6	66.0	66.4	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6
≥ 2000	36.5	65.0	67.7	69.4	71.1	71.6	72.4	72.9	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3
≥ 1800	37.2	66.7	69.5	71.4	73.4	73.9	74.9	75.5	75.7	75.8	75.9	76.0	76.0	76.0	76.0	76.0
≥ 1500	38.6	71.1	74.4	77.0	79.7	80.5	81.8	82.8	83.0	83.3	83.6	83.6	83.7	83.7	83.7	83.7
≥ 1200	39.1	73.3	77.0	79.8	82.8	83.7	85.1	86.4	86.6	87.1	87.5	87.5	87.6	87.6	87.7	87.7
≥ 1000	39.4	74.5	78.6	81.7	84.9	85.9	87.5	89.1	89.3	90.1	90.6	90.7	90.8	90.9	90.9	90.9
≥ 900	39.4	74.8	78.9	82.1	85.4	86.4	88.1	89.8	90.0	90.8	91.4	91.5	91.7	91.7	91.7	91.7
≥ 800	39.5	75.2	79.5	82.8	86.2	87.3	89.1	90.8	91.1	92.0	92.7	92.9	93.0	93.0	93.0	93.1
≥ 700	39.6	75.6	79.9	83.4	86.9	88.2	90.0	91.8	92.1	93.1	93.9	94.0	94.2	94.2	94.2	94.3
≥ 600	39.6	75.7	80.1	83.7	87.4	88.7	90.6	92.4	92.7	93.8	94.7	95.0	95.1	95.2	95.2	95.2
≥ 500	39.6	75.8	80.2	83.9	87.6	89.0	90.9	93.0	93.3	94.5	95.7	96.0	96.3	96.3	96.3	96.4
≥ 400	39.6	75.9	80.3	84.2	88.0	89.5	91.6	93.6	94.1	95.3	96.6	96.9	97.3	97.4	97.4	97.4
≥ 300	39.6	75.9	80.4	84.3	88.1	89.7	91.8	94.0	94.5	95.8	97.1	97.4	98.0	98.1	98.2	98.2
≥ 200	39.6	75.9	80.4	84.3	88.2	89.7	92.0	94.2	94.8	96.2	97.7	98.0	98.6	98.8	99.1	99.2
≥ 100	39.6	75.9	80.4	84.3	88.2	89.7	92.0	94.3	94.8	96.3	97.8	98.1	98.8	99.0	99.4	99.8
≥ 0	39.6	75.9	80.4	84.3	88.2	89.7	92.0	94.3	94.8	96.3	97.8	98.1	98.8	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 5953

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	23.9	38.7	39.9	39.9	41.3	41.3	41.5	41.6	41.6	41.8	41.9	41.9	41.9	41.9	42.1	42.2
≥ 20000	24.5	40.5	41.9	41.9	43.2	43.2	43.5	43.6	43.6	43.7	43.8	43.8	43.8	43.8	44.1	44.2
≥ 18000	24.5	40.8	42.1	42.1	43.5	43.5	43.7	43.8	43.8	44.0	44.1	44.1	44.1	44.1	44.3	44.4
≥ 16000	24.5	40.8	42.1	42.1	43.5	43.5	43.7	43.8	43.8	44.0	44.1	44.1	44.1	44.1	44.3	44.4
≥ 14000	24.5	41.0	42.4	42.4	43.7	43.7	44.0	44.1	44.1	44.2	44.3	44.3	44.3	44.3	44.6	44.7
≥ 12000	24.8	41.3	42.7	42.7	44.1	44.1	44.3	44.4	44.4	44.6	44.7	44.7	44.7	44.7	44.9	45.1
≥ 10000	25.2	41.6	43.1	43.1	44.4	44.4	44.7	44.8	44.8	44.9	45.1	45.1	45.1	45.1	45.3	45.4
≥ 9000	25.9	42.5	44.0	44.0	45.3	45.3	45.5	45.7	45.7	45.8	45.9	45.9	45.9	45.9	46.2	46.3
≥ 8000	27.4	44.1	45.5	45.5	46.9	46.9	47.1	47.3	47.3	47.4	47.5	47.5	47.5	47.5	47.7	47.9
≥ 7000	28.4	45.8	47.3	47.3	48.6	48.6	48.8	49.0	49.0	49.1	49.2	49.2	49.2	49.2	49.5	49.6
≥ 6000	29.7	46.8	48.2	48.2	49.6	49.6	49.8	49.9	49.9	50.1	50.2	50.2	50.2	50.2	50.4	50.5
≥ 5000	30.3	49.6	51.0	51.0	52.4	52.4	52.6	52.7	52.7	52.9	53.0	53.0	53.0	53.0	53.2	53.4
≥ 4500	31.5	51.0	52.6	52.7	54.1	54.1	54.3	54.5	54.5	54.6	54.7	54.7	54.7	54.7	54.9	55.1
≥ 4000	31.7	51.4	53.1	53.2	54.6	54.6	54.8	54.9	54.9	55.1	55.2	55.2	55.2	55.2	55.4	55.6
≥ 3500	34.2	54.8	56.7	56.9	58.2	58.4	58.6	58.7	58.7	58.9	59.0	59.0	59.0	59.0	59.2	59.3
≥ 3000	35.9	58.2	60.3	60.9	62.4	62.5	62.8	62.9	62.9	63.0	63.1	63.1	63.1	63.1	63.4	63.5
≥ 2500	38.3	63.1	65.6	66.5	68.3	68.5	68.9	69.1	69.1	69.2	69.4	69.4	69.4	69.4	69.6	69.7
≥ 2000	39.4	66.4	69.2	70.5	72.3	72.5	73.0	73.3	73.3	73.5	73.6	73.6	73.6	73.6	73.9	74.0
≥ 1800	40.5	68.8	70.8	72.0	73.9	74.1	74.6	74.8	74.8	75.1	75.2	75.2	75.2	75.2	75.5	75.6
≥ 1500	42.1	71.2	74.6	76.1	78.4	78.9	79.5	79.7	79.7	80.0	80.1	80.1	80.1	80.1	80.3	80.5
≥ 1200	42.2	72.0	75.8	77.4	80.1	80.6	81.2	81.4	81.4	81.7	81.8	81.8	81.8	81.8	82.1	82.2
≥ 1000	42.2	73.7	78.0	80.5	83.5	84.0	84.9	85.3	85.3	85.6	86.0	86.0	86.0	86.0	86.2	86.3
≥ 900	42.2	74.1	78.4	81.0	84.0	84.6	85.6	86.1	86.1	86.3	86.8	86.8	86.8	86.8	87.1	87.2
≥ 800	42.2	74.6	78.9	81.8	85.0	85.6	86.6	87.1	87.1	87.4	87.9	87.9	87.9	87.9	88.2	88.3
≥ 700	42.2	75.0	79.2	82.2	85.5	86.1	87.2	87.7	87.7	88.0	88.5	88.5	88.5	88.5	88.8	88.9
≥ 600	42.2	75.1	79.5	82.5	86.2	86.8	87.9	88.4	88.4	88.9	89.5	89.5	89.5	89.5	89.7	89.9
≥ 500	42.2	75.6	80.1	83.5	87.5	88.2	89.6	90.5	90.5	91.1	91.7	91.8	91.9	91.9	92.2	92.3
≥ 400	42.2	75.6	80.3	84.0	88.2	88.8	90.6	91.7	91.7	92.4	93.0	93.2	93.3	93.3	93.5	93.7
≥ 300	42.2	75.7	80.6	84.2	88.4	89.0	90.8	92.3	92.3	93.2	93.9	94.0	94.1	94.1	94.4	94.5
≥ 200	42.2	75.7	81.2	85.0	89.4	90.0	91.9	93.5	93.5	94.6	95.6	95.7	96.0	96.0	96.3	96.5
≥ 100	42.2	75.7	81.3	85.1	89.6	90.2	92.2	93.9	93.9	95.0	96.1	96.2	96.8	96.9	97.8	98.5
≥ 0	42.2	75.7	81.3	85.1	89.6	90.2	92.2	93.9	93.9	95.0	96.1	96.2	96.8	96.9	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 819

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS V

72639 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	20.6	35.8	36.2	36.9	37.2	37.3	37.8	37.9	38.0	38.0	38.0	38.0	38.3	38.3	38.3	38.5
≥ 20000	22.1	38.2	38.5	39.3	39.5	39.6	40.1	40.2	40.4	40.4	40.4	40.4	40.6	40.6	40.6	40.9
≥ 18000	22.1	38.2	38.5	39.3	39.5	39.6	40.1	40.2	40.4	40.4	40.4	40.4	40.6	40.6	40.6	40.9
≥ 16000	22.1	38.2	38.5	39.3	39.5	39.6	40.1	40.2	40.4	40.4	40.4	40.4	40.6	40.6	40.6	40.9
≥ 14000	22.1	38.4	38.8	39.5	39.8	39.9	40.4	40.5	40.6	40.6	40.6	40.6	40.9	40.9	40.9	41.1
≥ 12000	22.3	38.8	39.1	39.9	40.1	40.2	40.7	40.9	41.0	41.0	41.0	41.0	41.2	41.2	41.2	41.5
≥ 10000	22.8	39.3	39.9	40.6	40.9	41.0	41.5	41.6	41.7	41.7	41.7	41.7	42.0	42.0	42.0	42.2
≥ 9000	23.2	39.6	40.2	41.0	41.2	41.3	41.8	42.0	42.1	42.1	42.1	42.1	42.3	42.3	42.3	42.6
≥ 8000	23.4	40.6	41.3	42.1	42.3	42.5	42.9	43.1	43.2	43.2	43.2	43.2	43.4	43.4	43.4	43.7
≥ 7000	25.0	42.1	42.8	43.6	43.8	43.9	44.4	44.5	44.7	44.7	44.7	44.7	44.9	44.9	44.9	45.2
≥ 6000	25.3	42.8	43.6	44.3	44.5	44.7	45.2	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.9
≥ 5000	26.4	45.2	46.0	47.0	47.2	47.4	47.9	48.0	48.1	48.1	48.1	48.1	48.3	48.3	48.3	48.6
≥ 4500	27.6	47.1	48.1	49.1	49.4	49.6	50.1	50.2	50.3	50.3	50.3	50.3	50.6	50.6	50.6	50.8
≥ 4000	28.4	48.5	49.6	50.6	51.0	51.2	51.7	51.8	51.9	51.9	51.9	51.9	52.1	52.1	52.1	52.4
≥ 3500	30.1	50.9	52.0	53.0	53.5	53.6	54.1	54.2	54.4	54.4	54.4	54.4	54.6	54.6	54.6	54.8
≥ 3000	32.1	53.7	54.8	56.3	56.8	56.9	57.4	57.5	57.7	57.8	57.8	57.8	58.0	58.0	58.0	58.3
≥ 2500	34.5	58.7	60.2	62.1	62.7	62.8	63.4	63.6	63.7	64.0	64.0	64.0	64.3	64.3	64.3	64.5
≥ 2000	37.5	64.8	66.9	69.0	70.3	70.6	71.4	71.5	71.7	72.0	72.0	72.0	72.3	72.3	72.3	72.5
≥ 1800	38.5	66.9	69.1	71.3	72.8	73.0	73.9	74.1	74.2	74.6	74.6	74.6	74.8	74.8	74.8	75.1
≥ 1500	40.0	70.2	72.8	75.1	76.9	77.2	78.3	78.8	78.9	79.3	79.3	79.3	79.5	79.5	79.5	79.8
≥ 1200	40.2	71.5	74.1	76.7	78.9	79.1	80.4	81.1	81.2	81.6	81.6	81.6	81.8	81.8	81.8	82.1
≥ 1000	40.3	73.1	76.1	79.1	81.7	82.0	83.2	84.0	84.2	84.9	85.0	85.0	85.3	85.3	85.3	85.5
≥ 900	41.1	73.5	76.4	79.8	82.5	82.7	83.9	84.8	84.9	85.6	85.8	85.8	86.0	86.0	86.0	86.3
≥ 800	41.1	73.9	76.9	80.6	83.6	83.8	85.0	85.9	86.1	87.1	87.2	87.2	87.5	87.5	87.5	87.7
≥ 700	41.1	74.1	77.3	81.3	84.3	84.5	86.0	87.0	87.2	88.5	88.6	88.6	88.8	88.8	88.8	89.1
≥ 600	41.1	74.2	77.5	81.6	84.7	84.9	86.4	87.4	87.6	89.0	89.1	89.1	89.3	89.3	89.3	89.6
≥ 500	41.1	74.4	77.8	82.2	85.5	85.8	87.6	88.7	89.0	90.4	90.6	90.6	90.8	90.8	90.8	91.0
≥ 400	41.1	74.5	78.0	82.7	86.4	86.6	88.5	89.7	89.9	91.8	92.1	92.1	92.4	92.4	92.4	92.6
≥ 300	41.1	74.5	78.2	83.1	87.0	87.4	89.4	90.9	91.2	93.0	93.4	93.5	93.7	93.7	93.7	94.0
≥ 200	41.1	74.6	78.7	83.7	87.7	88.2	90.4	91.9	92.1	94.0	94.8	95.0	95.2	95.2	95.3	95.8
≥ 100	41.1	74.6	78.8	83.8	88.0	88.6	90.9	92.8	93.0	95.1	96.0	96.2	96.6	96.7	97.5	98.8
≥ 0	41.1	74.6	78.8	83.8	88.0	88.6	90.9	92.8	93.0	95.1	96.0	96.2	96.6	96.7	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 815

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	75-81	MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): 0600-0900

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	20.1	34.1	35.4	36.3	37.0	37.3	37.4	37.5	37.5	37.8	38.0	38.0	38.1	38.1	38.1	38.2
≥ 20000	21.8	36.3	37.6	38.5	39.2	39.5	39.6	39.8	39.8	40.1	40.4	40.4	40.6	40.6	40.6	40.8
≥ 18000	21.4	36.3	37.6	38.5	39.2	39.5	39.6	39.8	39.8	40.1	40.4	40.4	40.6	40.6	40.6	40.8
≥ 16000	21.4	36.3	37.6	38.5	39.2	39.5	39.6	39.8	39.8	40.1	40.4	40.4	40.6	40.6	40.6	40.8
≥ 14000	21.8	36.4	37.8	38.6	39.3	39.6	39.7	40.0	40.0	40.2	40.6	40.6	40.7	40.7	40.7	40.9
≥ 12000	21.9	36.8	38.1	39.0	39.7	40.0	40.1	40.3	40.3	40.6	40.9	40.9	41.0	41.0	41.0	41.3
≥ 10000	22.5	37.9	39.3	40.4	41.7	41.9	42.0	42.3	42.3	42.6	43.0	43.0	43.1	43.1	43.1	43.4
≥ 9000	22.5	37.9	39.3	40.4	41.7	41.9	42.0	42.3	42.3	42.6	43.0	43.0	43.1	43.1	43.1	43.4
≥ 8000	23.6	39.3	40.8	41.9	43.1	43.4	43.5	43.7	43.7	44.1	44.5	44.5	44.6	44.6	44.6	44.8
≥ 7000	24.1	40.3	41.8	42.9	44.1	44.3	44.5	44.7	44.7	45.1	45.4	45.4	45.6	45.6	45.6	45.8
≥ 6000	24.2	41.2	42.6	43.7	44.9	45.2	45.3	45.6	45.6	45.9	46.3	46.3	46.4	46.4	46.4	46.7
≥ 5000	25.6	43.2	44.8	45.9	47.1	47.5	47.7	48.0	48.0	48.4	48.7	48.7	48.8	49.1	49.1	49.3
≥ 4500	26.9	44.7	46.3	47.5	48.8	49.3	49.7	49.9	49.9	50.4	50.8	50.8	50.9	51.2	51.2	51.4
≥ 4000	27.3	45.3	46.9	48.1	49.6	50.1	50.4	50.7	50.7	51.2	51.5	51.5	51.6	51.9	51.9	52.1
≥ 3500	29.6	48.6	50.3	51.8	53.5	54.2	54.7	54.9	54.9	55.4	55.8	55.8	55.9	56.2	56.2	56.4
≥ 3000	30.9	51.2	53.1	54.6	56.3	57.0	57.5	57.9	57.9	58.3	58.7	58.7	58.8	59.1	59.1	59.3
≥ 2500	32.6	55.1	57.0	59.2	61.6	62.5	63.0	63.5	63.5	63.9	64.4	64.4	64.6	64.8	64.8	65.0
≥ 2000	34.0	58.6	60.7	62.9	65.9	66.7	67.4	67.8	67.8	68.3	68.8	68.8	68.9	69.2	69.2	69.4
≥ 1800	34.2	59.9	62.4	64.6	68.0	68.8	69.4	69.9	69.9	70.4	70.9	70.9	71.0	71.3	71.3	71.5
≥ 1500	35.4	62.6	65.0	67.6	72.1	73.4	74.3	75.6	75.8	76.5	77.1	77.2	77.3	77.6	77.6	77.8
≥ 1200	35.9	64.9	67.5	70.2	75.2	76.5	77.7	79.2	79.4	80.1	80.9	81.1	81.2	81.5	81.5	81.7
≥ 1000	36.7	66.5	69.1	71.9	77.2	78.7	80.1	82.1	82.3	83.1	84.0	84.5	84.7	84.9	84.9	85.1
≥ 900	36.9	66.9	69.4	72.2	77.6	79.0	80.6	82.6	82.8	83.6	84.5	85.0	85.1	85.4	85.4	85.6
≥ 800	37.0	67.6	70.2	73.3	78.8	80.3	82.0	84.0	84.3	85.1	86.2	86.7	86.8	87.1	87.1	87.3
≥ 700	37.1	68.2	70.9	74.8	80.4	81.9	83.6	85.7	86.2	87.1	88.3	88.8	88.9	89.2	89.2	89.4
≥ 600	37.1	68.6	71.4	75.4	81.0	82.5	84.3	86.6	87.1	88.2	89.4	89.9	90.0	90.3	90.3	90.5
≥ 500	37.1	68.6	71.5	76.1	81.9	83.3	85.1	87.7	88.2	89.5	90.9	91.5	91.7	92.0	92.0	92.2
≥ 400	37.1	68.7	71.6	76.4	82.8	84.3	86.1	88.8	89.3	90.7	92.1	92.7	92.9	93.4	93.5	93.8
≥ 300	37.1	68.7	71.6	76.4	83.1	84.8	86.6	89.3	89.9	91.4	92.8	93.7	93.9	94.4	94.5	94.9
≥ 200	37.1	68.7	71.6	76.4	83.1	84.8	86.8	89.5	90.3	92.1	93.8	94.6	95.0	95.6	96.0	96.6
≥ 100	37.1	68.7	71.6	76.4	83.2	84.9	87.0	89.6	90.4	92.3	94.0	94.9	95.5	96.2	97.3	98.4
≥ 0	37.1	68.7	71.6	76.4	83.2	84.9	87.0	89.6	90.4	92.3	94.0	94.9	95.5	96.2	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726391 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	24.0	38.5	38.9	39.5	39.7	39.9	39.9	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.1
≥ 20000	25.3	41.8	42.4	43.2	43.5	43.8	43.8	43.9	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.0
≥ 18000	25.3	41.8	42.4	43.2	43.5	43.8	43.8	43.9	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.0
≥ 16000	25.3	41.8	42.4	43.2	43.5	43.8	43.8	43.9	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.0
≥ 14000	25.3	41.9	42.5	43.3	43.6	43.9	43.9	44.0	44.0	44.0	44.0	44.1	44.1	44.1	44.1	44.1
≥ 12000	25.6	42.5	43.2	43.9	44.3	44.5	44.5	44.6	44.6	44.6	44.6	44.7	44.7	44.7	44.7	44.7
≥ 10000	25.8	43.9	44.5	45.5	45.8	46.1	46.1	46.2	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3
≥ 9000	25.8	44.0	44.6	45.6	46.0	46.2	46.2	46.3	46.3	46.3	46.3	46.5	46.5	46.5	46.5	46.5
≥ 8000	26.5	45.7	46.6	47.6	47.9	48.3	48.3	48.4	48.4	48.4	48.4	48.5	48.5	48.5	48.5	48.5
≥ 7000	26.4	46.9	47.8	48.8	49.3	49.8	49.8	49.9	49.9	49.9	49.9	50.0	50.0	50.0	50.0	50.0
≥ 6000	27.5	47.8	48.7	49.6	50.1	50.6	50.6	50.7	50.7	50.7	50.7	50.9	50.9	50.9	50.9	50.9
≥ 5000	28.0	48.4	49.3	50.2	51.0	51.5	51.5	51.6	51.7	51.7	51.8	52.0	52.1	52.1	52.1	52.1
≥ 4500	28.7	49.5	50.4	51.5	52.6	53.1	53.2	53.3	53.4	53.4	53.5	53.7	53.8	53.8	53.8	53.8
≥ 4000	29.2	50.4	51.2	52.6	53.9	54.4	54.5	54.6	54.8	54.8	54.9	55.0	55.1	55.1	55.1	55.1
≥ 3500	29.6	51.5	52.3	53.8	55.1	55.6	55.7	55.9	56.0	56.0	56.1	56.2	56.4	56.4	56.4	56.4
≥ 3000	31.4	54.0	55.0	56.6	58.6	59.2	59.3	59.4	59.5	59.5	59.7	59.8	59.9	59.9	59.9	59.9
≥ 2500	33.0	57.1	58.3	60.1	62.3	63.1	63.3	63.4	63.6	63.6	63.7	63.8	63.9	63.9	63.9	63.9
≥ 2000	34.5	61.2	62.6	64.8	67.4	68.5	68.8	68.9	69.1	69.1	69.2	69.3	69.4	69.4	69.4	69.4
≥ 1800	35.2	62.7	64.2	66.4	69.1	70.2	70.5	70.7	70.8	70.8	71.1	71.3	71.4	71.4	71.4	71.4
≥ 1500	36.3	66.6	68.3	70.8	73.8	74.9	75.4	75.8	75.9	76.0	76.5	76.8	76.9	76.9	76.9	76.9
≥ 1200	37.0	69.2	70.9	73.6	77.0	78.2	79.0	79.5	79.7	80.2	80.8	81.1	81.2	81.2	81.2	81.2
≥ 1000	37.7	70.7	72.4	75.1	78.6	80.1	81.4	82.5	82.8	83.4	84.0	84.2	84.4	84.4	84.4	84.4
≥ 900	37.8	71.4	73.1	75.8	79.7	81.2	82.5	83.6	83.9	84.5	85.2	85.5	85.6	85.6	85.6	85.6
≥ 800	37.8	72.0	74.1	77.1	81.2	82.6	84.2	85.3	85.6	86.2	87.2	87.4	87.5	87.5	87.5	87.5
≥ 700	37.8	72.6	75.1	78.2	82.6	84.2	85.8	87.4	87.8	88.5	89.9	90.1	90.2	90.2	90.2	90.2
≥ 600	37.8	72.6	75.3	78.5	83.0	84.6	86.6	88.3	88.9	89.6	91.0	91.2	91.3	91.3	91.3	91.3
≥ 500	37.8	72.7	75.6	78.9	83.6	85.3	87.7	89.6	90.2	91.2	92.9	93.2	93.3	93.3	93.3	93.3
≥ 400	37.8	72.9	75.9	79.6	84.7	86.8	89.7	91.7	92.4	93.4	95.4	95.6	95.7	95.7	95.7	95.7
≥ 300	37.8	72.9	75.9	79.6	84.7	86.8	90.3	92.8	93.5	94.6	96.7	96.9	97.1	97.2	97.4	97.4
≥ 200	37.8	72.9	75.9	79.6	84.7	86.8	90.3	92.8	93.5	94.7	96.8	97.2	97.6	97.9	98.9	99.1
≥ 100	37.8	72.9	75.9	79.6	84.7	86.8	90.3	92.8	93.5	94.7	96.8	97.2	97.7	98.2	99.3	99.9
≥ 0	37.8	72.9	75.9	79.6	84.7	86.8	90.3	92.8	93.5	94.7	96.8	97.2	97.7	98.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 818

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST): 1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	25.7	40.5	40.6	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	27.8	44.1	44.3	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 18000	27.8	44.1	44.3	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 16000	27.8	44.1	44.3	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 14000	27.8	44.2	44.4	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 12000	28.5	45.0	45.3	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 10000	28.9	45.8	46.0	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
≥ 9000	29.0	45.9	46.3	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 8000	29.3	46.9	47.5	48.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 7000	29.7	48.1	48.7	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 6000	30.2	48.7	49.3	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 5000	30.8	49.7	50.3	51.3	51.5	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 4500	31.3	50.6	51.2	52.3	52.5	52.6	52.6	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 4000	31.8	51.4	52.0	53.4	53.6	53.7	53.7	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 3500	32.9	53.2	53.9	55.2	55.6	55.8	55.9	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 3000	34.1	56.1	56.8	58.3	58.6	58.9	59.0	59.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 2500	38.2	63.0	64.3	66.0	66.5	66.7	66.8	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 2000	40.5	68.3	69.8	71.8	72.3	72.6	72.7	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 1800	41.5	71.0	72.6	74.9	75.4	75.8	75.9	76.1	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 1500	42.4	75.0	76.7	79.3	80.2	80.9	81.2	81.4	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1200	42.5	77.4	79.1	82.1	83.0	83.7	84.0	84.5	84.7	85.1	85.4	85.4	85.4	85.4	85.4	85.4
≥ 1000	42.8	78.3	80.3	83.4	84.5	85.3	85.7	86.3	86.5	87.0	87.5	87.5	87.5	87.5	87.5	87.5
≥ 900	42.8	78.6	80.7	83.8	85.2	86.0	86.4	87.0	87.3	88.0	88.6	88.6	88.6	88.6	88.6	88.6
≥ 800	43.0	78.9	81.2	84.3	85.9	87.1	87.5	88.2	88.5	89.6	90.2	90.2	90.2	90.2	90.2	90.2
≥ 700	43.0	79.6	82.0	85.2	87.3	88.7	89.2	90.3	90.6	91.7	92.4	92.4	92.4	92.4	92.4	92.4
≥ 600	43.0	79.7	82.1	85.3	87.4	88.9	89.5	90.8	91.1	92.4	93.3	93.4	93.4	93.4	93.4	93.4
≥ 500	43.0	79.9	82.5	85.8	88.1	89.6	90.2	91.7	91.9	93.4	94.4	94.5	94.6	94.6	94.6	94.6
≥ 400	43.0	80.0	82.6	85.9	88.5	90.2	90.9	92.7	93.0	94.6	95.8	96.1	96.2	96.2	96.2	96.2
≥ 300	43.0	80.0	82.6	85.9	88.7	90.6	91.8	93.8	94.1	95.7	97.1	97.4	97.9	97.9	98.0	98.0
≥ 200	43.0	80.0	82.6	85.9	88.7	90.6	91.8	93.9	94.2	96.0	97.3	98.0	98.7	98.7	99.0	99.1
≥ 100	43.0	80.2	82.7	86.0	88.9	90.7	91.9	94.0	94.4	96.1	97.4	98.2	98.8	98.8	99.1	99.9
≥ 0	43.0	80.2	82.7	86.0	88.9	90.7	91.9	94.0	94.4	96.1	97.4	98.2	98.8	98.8	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 817

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	25.5	41.2	41.5	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	27.7	46.0	46.6	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 18000	27.7	46.0	46.6	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 16000	27.7	46.0	46.6	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 14000	28.0	46.6	47.2	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
≥ 12000	28.5	47.4	48.0	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 10000	28.9	48.3	49.0	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 9000	28.9	48.5	49.1	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 8000	29.7	49.7	50.6	51.2	51.3	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 7000	30.5	51.0	51.9	52.5	52.6	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 6000	31.0	51.9	52.8	53.4	53.5	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 5000	31.9	53.1	54.3	55.0	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 4500	32.5	54.5	55.8	56.4	56.5	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 4000	33.1	55.2	56.7	57.4	57.5	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 3500	35.1	58.0	59.5	60.2	60.3	60.6	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 3000	39.2	63.4	65.0	65.9	66.0	66.3	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 2500	42.2	69.5	71.1	72.2	72.3	72.7	72.8	72.9	72.9	72.9	72.9	73.1	73.1	73.1	73.1	73.1
≥ 2000	43.8	75.1	75.6	76.1	77.2	77.6	77.7	77.8	77.8	77.8	77.8	78.0	78.0	78.0	78.0	78.0
≥ 1800	43.9	74.8	77.0	78.2	79.1	79.4	79.7	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9
≥ 1500	44.4	77.1	79.4	81.0	82.6	83.5	84.0	84.2	84.2	84.3	84.3	84.6	84.6	84.6	84.6	84.6
≥ 1200	44.7	78.9	81.4	83.0	84.7	85.7	86.3	86.9	86.9	87.1	87.1	87.4	87.4	87.4	87.4	87.4
≥ 1000	44.9	80.2	82.	84.2	86.0	87.3	88.1	88.7	88.7	89.0	89.2	89.5	89.5	89.5	89.5	89.5
≥ 900	44.9	80.7	83.2	84.8	86.8	88.0	88.9	89.5	89.5	89.8	90.2	90.5	90.5	90.5	90.5	90.5
≥ 800	44.9	80.8	83.6	85.3	87.3	88.6	89.5	90.1	90.1	90.6	91.2	91.6	91.6	91.6	91.6	91.6
≥ 700	44.9	80.9	83.7	85.6	87.6	89.1	90.0	90.7	90.7	91.3	91.9	92.3	92.3	92.3	92.3	92.3
≥ 600	44.9	80.9	83.7	85.7	87.8	89.2	90.3	91.1	91.2	91.8	92.5	93.0	93.0	93.0	93.0	93.0
≥ 500	44.9	81.0	84.0	86.0	88.2	89.7	90.9	91.8	92.0	92.9	93.8	94.2	94.4	94.4	94.4	94.4
≥ 400	44.9	81.0	84.2	86.4	89.2	90.7	92.0	93.3	93.5	94.5	95.7	96.3	96.5	96.6	96.6	96.6
≥ 300	44.9	81.0	84.2	86.4	89.2	90.8	92.2	93.5	93.8	95.0	96.7	97.5	97.6	97.8	97.8	97.8
≥ 200	44.9	81.0	84.2	86.4	89.2	90.8	92.2	93.6	93.9	95.5	97.3	97.9	98.2	98.4	98.8	98.8
≥ 100	44.9	81.0	84.2	86.4	89.2	90.8	92.2	93.6	93.9	95.5	97.3	98.0	98.3	98.7	99.4	99.9
≥ 0	44.9	81.0	84.2	86.4	89.2	90.8	92.2	93.6	93.9	95.5	97.3	98.0	98.3	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 817

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

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST: 1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥	≥0
NO CEILING	27.8	42.9	43.9	44.2	44.5	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 20000	29.4	47.9	48.9	49.4	49.6	49.6	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 18000	29.6	48.2	49.1	49.6	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 16000	29.7	48.3	49.3	49.8	50.0	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 14000	30.1	48.6	49.6	50.1	50.4	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 12000	30.3	49.1	50.1	50.6	50.9	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 10000	30.5	49.8	50.7	51.2	51.5	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 9000	30.6	50.0	51.0	51.5	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 8000	32.4	52.6	53.6	54.1	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 7000	32.9	53.4	54.4	55.0	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 6000	33.7	54.2	55.2	55.8	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 5000	34.0	55.3	56.4	57.0	57.2	57.2	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 4500	35.6	57.6	58.7	59.5	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	36.1	58.7	61.1	60.9	61.3	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 3500	39.3	61.3	62.6	63.8	64.3	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 3000	40.3	65.1	66.8	67.8	68.3	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 2500	43.9	70.9	73.0	74.1	74.6	74.8	75.1	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3
≥ 2000	45.3	73.6	75.9	77.0	77.8	78.0	78.3	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5
≥ 1800	45.6	74.3	76.8	78.0	78.7	79.1	79.4	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
≥ 1500	46.2	76.2	79.1	80.7	81.7	82.1	82.8	83.0	83.0	83.3	83.5	83.5	83.7	83.7	83.7	83.7
≥ 1200	46.6	77.8	80.8	82.6	83.8	84.2	85.1	85.5	85.5	85.9	86.2	86.4	86.5	86.5	86.5	86.5
≥ 1000	46.7	79.0	82.3	84.3	86.0	86.4	87.3	87.7	88.0	88.5	88.9	89.1	89.2	89.2	89.2	89.2
≥ 900	46.7	79.2	82.6	84.8	86.5	86.9	87.8	88.2	88.5	88.9	89.4	89.6	89.7	89.8	89.9	89.9
≥ 800	46.8	79.5	82.9	85.3	87.0	87.3	88.5	88.9	89.2	90.0	90.5	90.8	91.0	91.2	91.3	91.3
≥ 700	46.9	79.7	83.2	85.5	87.3	87.8	89.1	89.6	89.8	90.9	91.8	92.0	92.3	92.4	92.5	92.5
≥ 600	46.9	79.9	83.4	86.0	88.0	88.5	89.8	90.4	90.7	91.8	92.6	92.9	93.2	93.4	93.5	93.5
≥ 500	46.8	80.0	83.7	86.2	88.2	88.8	90.2	90.8	91.0	92.5	93.5	93.7	94.3	94.5	94.6	94.6
≥ 400	46.8	80.0	83.7	86.5	88.7	89.4	90.9	91.5	91.8	93.4	94.3	94.6	95.2	95.3	95.5	95.5
≥ 300	46.8	80.0	83.7	86.5	88.7	89.4	90.9	91.6	91.9	93.5	94.5	94.7	95.3	95.5	95.6	95.6
≥ 200	46.8	80.0	83.7	86.5	88.7	89.4	90.9	91.8	92.1	94.0	95.7	96.1	96.8	96.9	97.2	97.2
≥ 100	46.8	80.0	83.7	86.5	88.7	89.4	90.9	91.8	92.1	94.1	95.9	96.3	97.2	97.5	98.3	99.4
≥ 0	46.8	80.0	83.7	86.5	88.7	89.4	90.9	91.8	92.1	94.1	95.9	96.3	97.2	97.5	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 814

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14839 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	26.4	41.1	41.9	42.0	42.9	42.9	43.1	43.1	43.1	43.3	43.4	43.4	43.4	43.4	43.4	43.4
≥ 20000	26.6	43.7	44.6	45.0	45.8	45.8	46.1	46.1	46.1	46.2	46.3	46.3	46.3	46.3	46.3	46.3
≥ 18000	26.6	43.9	44.7	45.1	45.9	45.9	46.2	46.2	46.2	46.3	46.4	46.4	46.4	46.4	46.4	46.4
≥ 16000	26.6	43.9	44.7	45.1	45.9	45.9	46.2	46.2	46.2	46.3	46.4	46.4	46.4	46.4	46.4	46.4
≥ 14000	26.6	44.0	44.8	45.2	46.1	46.1	46.3	46.3	46.3	46.4	46.5	46.5	46.5	46.5	46.5	46.5
≥ 12000	26.6	44.5	45.3	45.7	46.5	46.5	46.8	46.8	46.8	46.9	47.0	47.0	47.0	47.0	47.0	47.0
≥ 10000	27.3	45.2	46.2	46.5	47.4	47.4	47.6	47.6	47.6	47.8	47.9	47.9	47.9	47.9	47.9	47.9
≥ 9000	27.3	45.2	46.2	46.5	47.4	47.4	47.6	47.6	47.6	47.8	47.9	47.9	47.9	47.9	47.9	47.9
≥ 8000	29.1	47.6	48.6	49.0	49.8	49.8	50.1	50.1	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3
≥ 7000	30.1	49.0	49.9	50.3	51.2	51.2	51.4	51.4	51.4	51.5	51.6	51.6	51.6	51.6	51.6	51.6
≥ 6000	30.7	50.2	51.2	51.5	52.4	52.4	52.6	52.6	52.6	52.7	52.9	52.9	52.9	52.9	52.9	52.9
≥ 5000	31.7	52.2	53.2	53.6	54.6	54.6	54.8	54.8	54.8	54.9	55.0	55.0	55.0	55.0	55.0	55.0
≥ 4500	33.0	54.7	55.8	56.1	57.1	57.1	57.4	57.4	57.4	57.5	57.6	57.6	57.6	57.6	57.6	57.6
≥ 4000	33.4	55.7	57.2	57.6	58.8	58.8	59.1	59.1	59.1	59.2	59.3	59.3	59.3	59.3	59.3	59.3
≥ 3500	35.5	57.8	59.5	60.8	61.4	61.4	61.7	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3
≥ 3000	37.9	61.5	63.3	64.0	65.5	65.5	65.9	66.2	66.2	66.3	66.5	66.5	66.5	66.5	66.5	66.5
≥ 2500	40.6	67.7	69.5	70.4	71.9	72.1	72.4	72.8	72.8	72.9	73.0	73.0	73.1	73.1	73.1	73.1
≥ 2000	41.6	71.1	73.1	74.2	75.8	75.9	76.3	76.7	76.7	76.8	76.9	76.9	77.0	77.0	77.0	77.0
≥ 1800	43.0	72.8	75.0	76.2	77.8	77.9	78.4	78.7	78.7	78.9	79.0	79.0	79.1	79.1	79.1	79.1
≥ 1500	44.3	75.3	77.8	79.2	81.2	81.3	82.3	82.9	82.9	83.0	83.1	83.1	83.2	83.2	83.2	83.2
≥ 1200	44.5	76.8	79.6	81.0	83.1	83.2	84.3	85.3	85.3	85.5	85.8	85.8	85.9	85.9	85.9	85.9
≥ 1000	44.8	78.1	81.3	82.9	84.9	85.1	86.3	87.2	87.2	87.5	87.7	87.7	87.8	87.8	87.8	87.8
≥ 900	44.9	78.6	81.8	83.4	85.7	85.8	87.0	88.0	88.0	88.2	88.5	88.5	88.6	88.6	88.6	88.6
≥ 800	45.1	79.0	82.5	84.2	86.6	86.8	88.0	88.9	88.9	89.2	89.4	89.6	89.7	89.7	89.7	89.7
≥ 700	45.1	79.2	82.7	84.4	86.9	87.0	88.6	89.6	89.6	89.8	90.0	90.2	90.3	90.3	90.3	90.3
≥ 600	45.1	79.6	83.2	85.1	87.5	87.6	89.3	90.3	90.3	90.8	91.1	91.3	91.4	91.4	91.4	91.4
≥ 500	45.1	79.8	83.7	85.8	88.2	88.3	90.0	91.3	91.3	91.9	92.2	92.3	92.5	92.5	92.5	92.5
≥ 400	45.1	80.1	84.1	86.5	89.2	89.3	91.3	92.5	92.8	93.6	94.4	94.5	94.7	94.8	94.8	94.8
≥ 300	45.1	80.2	84.2	86.6	89.7	89.8	91.7	93.1	93.8	94.7	95.5	95.9	96.0	96.1	96.2	96.2
≥ 200	45.1	80.2	84.2	86.6	89.9	90.0	92.2	93.7	94.4	95.4	96.6	97.0	97.3	97.4	97.7	97.7
≥ 100	45.1	80.2	84.2	86.6	89.9	90.2	92.3	93.8	94.5	95.7	97.0	97.3	97.8	97.9	98.3	98.7
≥ 0	45.1	80.2	84.2	86.6	89.9	90.2	92.3	93.8	94.5	95.7	97.0	97.3	97.8	97.9	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 823

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7839	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS: ALL

CEILING FEET	VISIBILITY STATUTE MILES ≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥0
NO CEILING	24.3	39.1	39.8	40.2	40.7	40.8	40.9	41.0	41.0	41.0	41.1	41.1	41.2	41.2	41.2	41.3
≥ 20000	25.6	42.3	43.1	43.6	44.1	44.2	44.3	44.4	44.4	44.5	44.6	44.6	44.6	44.6	44.7	44.7
≥ 18000	25.7	42.4	43.2	43.7	44.2	44.3	44.4	44.5	44.5	44.6	44.7	44.7	44.7	44.7	44.7	44.8
≥ 16000	25.7	42.4	43.2	43.7	44.2	44.3	44.4	44.5	44.5	44.6	44.7	44.7	44.7	44.7	44.8	44.8
≥ 14000	25.8	42.6	43.4	43.9	44.4	44.5	44.7	44.8	44.8	44.8	44.9	44.9	45.0	45.0	45.0	45.1
≥ 12000	26.1	43.2	44.0	44.5	45.0	45.0	45.2	45.3	45.3	45.4	45.4	45.5	45.5	45.5	45.5	45.6
≥ 10000	26.5	44.0	44.8	45.4	46.0	46.1	46.3	46.3	46.3	46.4	46.5	46.5	46.6	46.6	46.6	46.7
≥ 9000	26.7	44.2	45.1	45.7	46.3	46.4	46.5	46.6	46.6	46.7	46.8	46.8	46.8	46.8	46.9	46.9
≥ 8000	27.7	45.8	46.8	47.4	48.0	48.1	48.3	48.4	48.4	48.5	48.6	48.6	48.6	48.6	48.7	48.7
≥ 7000	28.3	47.1	48.1	48.7	49.3	49.5	49.6	49.7	49.7	49.8	49.9	49.9	50.0	50.0	50.0	50.1
≥ 6000	28.9	47.9	48.9	49.6	50.2	50.3	50.5	50.6	50.6	50.7	50.7	50.8	50.8	50.8	50.8	50.9
≥ 5000	29.8	49.6	50.7	51.4	52.0	52.2	52.4	52.4	52.5	52.6	52.7	52.7	52.8	52.8	52.8	52.9
≥ 4500	30.9	51.2	52.4	53.1	53.9	54.0	54.3	54.4	54.4	54.5	54.6	54.6	54.7	54.7	54.7	54.8
≥ 4000	31.4	52.1	53.3	54.2	55.0	55.2	55.5	55.5	55.6	55.7	55.8	55.8	55.9	55.9	55.9	56.0
≥ 3500	33.1	54.5	55.9	56.8	57.7	58.0	58.3	58.5	58.5	58.6	58.7	58.7	58.8	58.8	58.8	58.9
≥ 3000	35.3	57.9	59.4	60.5	61.6	61.9	62.1	62.3	62.4	62.5	62.6	62.6	62.7	62.7	62.7	62.8
≥ 2500	37.9	63.1	64.9	66.3	67.5	67.9	68.2	68.4	68.5	68.6	68.8	68.8	68.9	68.9	68.9	69.0
≥ 2000	39.6	67.2	69.2	70.9	72.4	72.8	73.2	73.4	73.5	73.6	73.7	73.8	73.9	73.9	73.9	74.0
≥ 1800	40.3	68.8	71.0	72.7	74.3	74.8	75.2	75.5	75.5	75.7	75.8	75.8	75.9	76.0	76.0	76.1
≥ 1500	41.4	71.8	74.2	76.2	78.4	79.0	79.7	80.2	80.3	80.5	80.7	80.8	80.9	80.9	81.0	81.0
≥ 1200	41.7	73.6	76.1	78.3	80.7	81.4	82.2	82.9	83.0	83.4	83.7	83.8	83.9	83.9	84.0	84.0
≥ 1000	42.1	75.0	77.8	80.1	82.8	83.6	84.6	85.5	85.6	86.1	86.6	86.7	86.8	86.8	86.8	86.9
≥ 900	42.1	75.4	78.2	80.7	83.5	84.3	85.3	86.2	86.4	86.9	87.4	87.5	87.6	87.7	87.7	87.8
≥ 800	42.2	75.8	78.8	81.5	84.4	85.3	86.4	87.3	87.5	88.2	88.7	88.9	89.0	89.1	89.1	89.2
≥ 700	42.2	76.2	79.3	82.2	85.2	86.2	87.4	88.5	88.7	89.5	90.2	90.4	90.5	90.5	90.6	90.6
≥ 600	42.3	76.3	79.5	82.5	85.7	86.6	88.0	89.2	89.4	90.3	91.1	91.3	91.4	91.4	91.5	91.6
≥ 500	42.3	76.5	79.8	83.1	86.4	87.4	88.9	90.3	90.5	91.6	92.5	92.7	92.9	93.0	93.0	93.1
≥ 400	42.3	76.6	80.1	83.5	87.2	88.3	90.0	91.5	91.8	93.0	94.1	94.4	94.6	94.7	94.8	94.9
≥ 300	42.3	76.6	80.1	83.6	87.4	88.6	90.5	92.2	92.6	93.9	95.1	95.4	95.7	95.8	96.0	96.1
≥ 200	42.3	76.6	80.3	83.8	87.7	88.8	90.8	92.6	93.0	94.5	96.0	96.4	96.8	97.0	97.4	97.6
≥ 100	42.3	76.7	80.3	83.8	87.8	89.0	91.0	92.8	93.2	94.8	96.3	96.8	97.3	97.6	98.4	99.2
≥ 0	42.3	76.7	80.3	83.8	87.8	89.0	91.0	92.8	93.2	94.8	96.3	96.8	97.3	97.6	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6544

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
4139	SHELBYS-COLLINS/ALPENA MI	73-81	APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	31.5	49.2	49.7	49.8	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	50.1	50.1	50.1	50.1
≥20000	31.5	52.0	52.5	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.9	52.9	52.9	52.9
≥18000	31.5	52.0	52.5	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.9	52.9	52.9	52.9
≥15000	31.5	52.0	52.5	52.6	52.6	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.9	52.9	52.9	52.9
≥12000	31.7	52.5	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.4	53.4	53.4	53.4
≥10000	31.8	52.9	53.4	53.5	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.8	53.8	53.8	53.8
≥9000	32.4	53.6	54.1	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5
≥8000	32.4	53.6	54.1	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5
≥7000	33.2	54.5	55.0	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.4	55.4
≥6000	34.4	56.3	56.8	56.9	56.9	56.9	57.2	57.3	57.3	57.3	57.3	57.3	57.5	57.5	57.5	57.5
≥5000	35.4	58.0	58.5	58.6	58.6	58.6	58.9	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2
≥4500	37.8	61.7	62.2	62.3	62.4	62.4	62.9	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.6	63.6
≥4000	38.9	63.8	64.3	64.6	64.7	64.8	65.4	65.7	65.7	65.9	65.9	65.9	66.0	66.0	66.1	66.1
≥3500	39.1	64.6	65.2	65.6	65.7	65.9	66.4	66.8	66.8	66.9	66.9	66.9	67.0	67.1	67.4	67.4
≥3000	40.1	67.3	67.9	68.3	68.5	68.7	69.2	69.6	69.6	69.7	69.7	69.7	69.8	69.9	70.2	70.2
≥2500	42.1	70.3	71.0	71.3	71.7	71.8	72.4	72.7	72.7	72.9	72.9	72.9	73.0	73.1	73.4	73.4
≥2000	43.2	73.1	73.9	74.3	74.9	75.2	75.7	76.1	76.1	76.2	76.2	76.2	76.3	76.4	76.7	76.7
≥1800	44.9	75.5	76.6	77.2	78.4	78.2	78.7	79.1	79.1	79.2	79.2	79.2	79.4	79.5	79.7	79.7
≥1500	45.1	76.2	77.2	77.8	78.7	79.0	79.5	79.9	79.9	80.0	80.0	80.0	80.1	80.3	80.5	80.5
≥1200	46.2	78.7	79.9	80.5	81.5	81.8	82.3	82.7	82.7	82.8	82.8	82.8	82.9	83.1	83.3	83.3
≥1000	46.3	80.0	81.5	82.2	83.2	83.4	83.9	84.3	84.3	84.5	84.5	84.5	84.6	84.7	85.0	85.0
≥900	47.4	81.3	83.2	83.9	85.0	85.6	86.1	86.5	86.5	86.6	86.6	86.6	86.8	86.9	87.1	87.1
≥800	47.4	81.4	83.3	84.1	85.1	85.7	86.4	86.8	86.8	86.9	86.9	86.9	87.0	87.1	87.4	87.4
≥700	47.4	81.4	83.6	84.3	85.4	86.1	86.9	87.3	87.3	87.4	87.4	87.4	87.5	87.6	87.9	87.9
≥600	47.4	82.4	84.7	85.6	86.8	87.8	88.7	89.2	89.2	89.3	89.3	89.3	89.4	89.6	89.8	89.8
≥500	47.4	82.5	84.8	85.9	87.3	88.3	89.2	90.2	90.2	90.4	90.4	90.4	90.6	90.7	91.0	91.0
≥400	47.4	82.8	85.6	86.9	88.4	89.8	91.0	92.1	92.1	92.4	92.4	92.4	92.5	92.6	92.9	92.9
≥300	47.4	83.1	86.1	87.6	89.1	91.2	92.5	94.0	94.0	94.3	94.3	94.3	94.4	94.5	94.8	94.8
≥200	47.5	83.4	86.5	88.2	90.7	92.2	93.8	95.4	95.4	95.8	95.8	95.8	95.9	96.1	96.3	96.3
≥100	47.5	83.4	86.5	88.2	90.8	92.4	94.4	96.1	96.2	97.1	97.2	97.2	97.3	97.5	97.8	97.8
≥0	47.5	83.4	86.5	88.2	90.8	92.4	94.5	96.2	96.3	97.5	97.6	97.6	98.6	98.7	99.1	99.1
	47.5	83.4	86.5	88.2	90.8	92.4	94.5	96.2	96.3	97.5	97.6	97.6	98.6	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 785

USAF ETAC 1 NOV 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7 E39	PHELPS-COLLINS/ALPENA MI	73-81	APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	51.3	49.8	48.9	49.0	49.0	49.0	49.2	49.4	49.4	49.6	49.6	49.6	49.6	49.6	49.7	49.7
≥ 20000	52.5	52.4	52.5	52.6	52.6	52.6	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.2	53.2
≥ 18000	52.5	52.4	52.5	52.6	52.6	52.6	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.2	53.2
≥ 16000	52.5	52.4	52.5	52.6	52.6	52.6	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.2	53.2
≥ 14000	52.5	52.6	52.7	52.9	52.9	52.9	53.0	53.2	53.2	53.4	53.4	53.4	53.4	53.4	53.5	53.5
≥ 12000	52.7	52.9	53.0	53.1	53.1	53.1	53.2	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.7	53.7
≥ 10000	53.3	53.7	53.9	54.0	54.0	54.0	54.1	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.6	54.6
≥ 9000	53.3	53.7	53.9	54.0	54.0	54.0	54.1	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.6	54.6
≥ 8000	54.9	56.0	56.2	56.3	56.4	56.4	56.5	56.8	56.8	56.9	56.9	56.9	56.9	56.9	57.1	57.1
≥ 7000	56.7	58.1	58.3	58.6	58.7	58.7	58.8	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.3	59.3
≥ 6000	58.5	59.5	59.7	60.0	60.1	60.1	60.2	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.7	60.7
≥ 5000	61.9	62.5	62.9	63.4	63.5	63.7	63.9	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.4	64.4
≥ 4500	59.1	64.8	65.4	66.2	66.3	66.5	66.7	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2
≥ 4000	59.3	65.7	66.3	67.1	67.5	67.6	67.9	68.1	68.1	68.4	68.4	68.4	68.4	68.4	68.5	68.5
≥ 3500	59.9	67.3	68.1	68.9	69.6	69.8	70.0	70.3	70.3	70.5	70.5	70.5	70.5	70.5	70.6	70.6
≥ 3000	61.2	69.0	70.0	70.8	71.5	71.7	72.0	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.7	72.7
≥ 2500	61.9	71.8	73.2	74.0	74.7	74.8	75.2	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.9	75.9
≥ 2000	63.5	74.2	75.6	76.5	77.3	77.4	77.8	78.0	78.0	78.3	78.3	78.3	78.3	78.3	78.4	78.4
≥ 1800	64.1	75.0	76.4	77.3	78.0	78.1	78.5	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.2	79.2
≥ 1500	65.6	77.8	79.2	80.1	80.8	80.9	81.3	81.6	81.6	81.8	81.8	81.8	81.8	81.8	82.0	82.1
≥ 1200	66.1	79.2	80.7	81.6	82.3	82.5	82.8	83.1	83.1	83.4	83.5	83.5	83.5	83.5	83.6	83.7
≥ 1000	66.5	80.2	81.7	82.6	83.4	83.5	83.9	84.1	84.1	84.4	84.5	84.5	84.5	84.5	84.6	84.8
≥ 900	66.6	80.5	81.8	82.7	83.5	83.6	84.0	84.4	84.4	84.6	84.8	84.8	84.8	84.8	84.9	85.0
≥ 800	66.6	80.7	82.5	83.2	84.1	84.2	84.8	85.1	85.1	85.4	85.5	85.5	85.5	85.5	85.6	85.8
≥ 700	66.6	81.2	83.2	84.4	85.5	85.6	86.1	86.7	86.7	86.9	87.0	87.0	87.0	87.0	87.2	87.3
≥ 600	66.6	81.7	83.7	85.0	86.4	86.5	87.0	87.5	87.5	87.9	88.1	88.1	88.1	88.1	88.2	88.3
≥ 500	66.6	82.3	84.6	86.0	87.9	88.1	88.8	89.5	89.6	90.2	90.3	90.3	90.3	90.3	90.5	90.6
≥ 400	66.6	82.8	85.6	87.3	89.6	89.8	91.0	92.0	92.2	92.9	93.3	93.3	93.3	93.5	93.8	93.9
≥ 300	66.6	82.8	85.8	87.5	90.0	90.3	92.5	93.8	94.0	94.7	95.0	95.0	95.0	95.3	95.6	95.7
≥ 200	66.8	83.0	85.9	87.7	90.2	90.7	93.3	94.8	95.0	95.8	96.2	96.4	96.4	96.7	97.0	97.1
≥ 100	66.8	83.0	85.9	87.7	90.3	91.0	93.6	95.7	96.1	97.1	97.5	97.7	97.8	98.2	98.6	99.1
≥ 0	66.8	83.0	85.9	87.7	90.3	91.0	93.6	95.7	96.1	97.1	97.5	97.7	97.8	98.2	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 787

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

14839 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥5/8	≥½	≥5/16	≥¼	≥0
NO CEILING	29.3	45.2	45.5	45.7	46.1	46.2	46.4	46.5	46.6	46.6	46.7	46.7	46.7	46.7	46.9	47.0
≥ 20000	30.1	50.5	50.9	51.1	51.5	51.6	51.8	52.0	52.1	52.1	52.3	52.3	52.3	52.3	52.4	52.5
≥ 18000	30.1	50.5	50.9	51.1	51.5	51.6	51.8	52.0	52.1	52.1	52.3	52.3	52.3	52.3	52.4	52.5
≥ 16000	30.1	50.5	50.9	51.1	51.5	51.6	51.8	52.0	52.1	52.1	52.3	52.3	52.3	52.3	52.4	52.5
≥ 14000	31.2	51.1	51.5	51.8	52.1	52.3	52.4	52.6	52.8	52.8	52.9	52.9	52.9	52.9	53.0	53.1
≥ 12000	31.6	51.6	52.0	52.3	52.6	52.8	52.9	53.1	53.4	53.4	53.5	53.5	53.5	53.5	53.6	53.8
≥ 10000	32.2	53.8	54.1	54.4	54.8	54.9	55.1	55.4	55.6	55.6	55.8	55.8	55.8	55.8	55.9	56.0
≥ 9000	32.2	53.8	54.1	54.4	54.8	54.9	55.1	55.4	55.6	55.6	55.8	55.8	55.8	55.8	55.9	56.0
≥ 8000	34.2	57.1	57.6	57.9	58.3	58.4	58.6	58.9	59.1	59.3	59.4	59.4	59.4	59.4	59.5	59.6
≥ 7000	35.2	58.3	58.9	59.1	59.5	59.6	59.9	60.2	60.4	60.5	60.7	60.7	60.7	60.7	60.8	60.9
≥ 6000	35.3	59.5	60.2	60.5	60.9	61.0	61.3	61.5	61.8	61.9	62.2	62.2	62.2	62.2	62.3	62.4
≥ 5000	35.5	61.7	62.3	62.7	63.0	63.2	63.5	63.8	64.0	64.2	64.4	64.4	64.4	64.4	64.5	64.7
≥ 4500	37.8	63.4	64.0	64.4	64.8	64.9	65.3	65.5	65.8	66.0	66.4	66.4	66.4	66.4	66.5	66.7
≥ 4000	37.8	64.4	65.0	65.4	66.0	66.2	66.7	66.9	67.2	67.4	67.8	67.8	67.8	67.8	67.9	68.0
≥ 3500	38.8	66.3	66.9	67.3	68.0	68.2	68.7	69.0	69.3	69.5	69.9	69.9	69.9	69.9	70.1	70.2
≥ 3000	40.1	68.2	68.8	69.2	70.2	70.3	70.8	71.3	71.6	71.8	72.3	72.3	72.3	72.3	72.4	72.6
≥ 2500	40.9	70.9	71.7	72.3	73.3	73.4	73.9	74.4	74.7	74.9	75.4	75.4	75.4	75.4	75.6	75.7
≥ 2000	42.4	73.2	74.2	75.1	76.1	76.2	76.8	77.3	77.6	77.9	78.4	78.4	78.4	78.4	78.6	78.7
≥ 1800	43.0	74.2	75.2	76.1	77.1	77.2	77.8	78.3	78.6	78.9	79.4	79.4	79.4	79.4	79.6	79.7
≥ 1500	43.9	76.8	77.8	78.9	79.9	80.2	80.8	81.5	81.7	82.1	82.6	82.6	82.6	82.6	82.7	82.8
≥ 1200	44.5	78.4	79.4	80.7	81.8	82.1	82.7	83.3	83.6	84.0	84.5	84.5	84.5	84.5	84.6	84.7
≥ 1000	45.1	79.1	80.1	81.5	82.7	83.0	83.7	84.5	84.7	85.2	85.7	85.7	85.7	85.7	85.8	86.0
≥ 900	45.4	79.3	80.5	81.8	83.1	83.3	84.1	84.8	85.2	85.8	86.5	86.5	86.5	86.5	86.6	86.7
≥ 800	45.5	79.8	81.1	82.7	84.0	84.2	85.1	86.0	86.3	87.3	88.1	88.1	88.1	88.1	88.2	88.3
≥ 700	45.5	80.7	82.1	83.8	85.1	85.3	86.2	87.1	87.5	88.5	89.5	89.5	89.5	89.5	89.6	89.7
≥ 600	45.5	81.1	82.5	84.2	85.7	86.0	86.8	87.7	88.1	89.1	90.1	90.1	90.1	90.1	90.2	90.4
≥ 500	45.5	81.3	82.8	84.7	86.6	86.8	87.8	89.0	89.3	90.9	92.0	92.0	92.0	92.0	92.1	92.2
≥ 400	45.6	81.8	83.3	85.5	88.2	88.8	90.1	91.6	92.0	93.6	94.9	94.9	94.9	95.0	95.1	95.4
≥ 300	45.6	82.0	83.6	86.0	88.8	89.5	90.7	92.7	93.4	95.1	96.6	96.6	96.6	97.0	97.1	97.4
≥ 200	45.6	82.0	83.6	86.0	88.8	89.5	90.7	92.9	94.0	96.2	97.7	98.0	98.0	98.4	98.6	98.9
≥ 100	45.6	82.0	83.6	86.0	88.8	89.5	90.7	92.9	94.1	96.4	98.0	98.4	98.5	98.9	99.1	99.6
≥ 0	45.6	82.0	83.6	86.0	88.8	89.5	90.7	92.9	94.1	96.4	98.0	98.4	98.5	98.9	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 798

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

/ 6395 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 75-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	31.5	49.2	49.4	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 20000	34.3	53.8	54.2	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
≥ 18000	34.3	53.8	54.2	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
≥ 16000	34.3	53.8	54.2	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
≥ 14000	34.3	54.1	54.5	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 12000	34.9	55.0	55.4	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 10000	35.4	56.7	57.1	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 9000	35.4	57.0	57.4	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
≥ 8000	36.8	59.0	59.4	59.8	60.0	60.0	60.0	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 7000	37.5	60.3	60.7	61.0	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 6000	38.1	61.9	61.3	61.7	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 5000	39.2	62.9	63.3	63.9	64.3	64.4	64.4	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 4500	40.0	64.3	64.7	65.3	65.7	66.0	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 4000	40.7	65.7	66.1	66.7	67.1	67.3	67.5	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 3500	41.0	67.1	67.5	68.1	68.7	69.0	69.2	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 3000	41.5	68.1	68.9	69.5	70.4	70.6	70.9	71.0	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 2500	42.7	71.9	72.8	73.4	74.3	74.5	74.9	75.0	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2000	43.9	75.0	75.9	76.8	77.7	77.9	78.3	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 1800	44.3	76.3	77.2	78.1	78.9	79.2	79.6	79.8	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 1500	46.2	79.9	80.8	82.1	83.0	83.2	83.6	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 1200	46.8	81.2	82.2	83.9	84.9	85.4	85.8	86.0	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1000	47.7	82.5	83.6	85.2	86.3	86.8	87.3	87.5	87.6	87.8	88.0	88.0	88.0	88.0	88.0	88.0
≥ 900	47.7	82.7	84.0	85.8	86.8	87.3	87.8	88.0	88.1	88.3	88.5	88.5	88.5	88.5	88.5	88.5
≥ 800	48.0	83.4	84.7	86.6	87.9	88.4	89.0	89.4	89.7	89.8	90.0	90.0	90.0	90.0	90.0	90.0
≥ 700	48.3	83.7	85.1	87.4	88.9	89.5	90.2	90.5	90.8	90.9	91.3	91.3	91.3	91.3	91.3	91.3
≥ 600	48.2	84.1	85.8	88.1	89.9	90.5	91.2	91.7	92.2	92.4	92.8	92.8	92.9	92.9	92.9	92.9
≥ 500	48.2	84.4	86.1	88.7	90.5	91.3	91.9	92.4	93.1	93.4	94.1	94.2	94.3	94.5	94.5	94.5
≥ 400	48.2	84.7	86.6	89.5	91.4	92.4	93.2	94.1	94.8	95.2	96.0	96.2	96.3	96.5	96.5	96.5
≥ 300	48.2	84.9	86.8	89.7	91.6	92.7	93.4	94.7	95.5	96.2	97.1	97.4	97.6	97.9	97.9	97.9
≥ 200	48.2	84.9	86.8	89.7	91.6	92.8	93.7	95.2	96.2	97.1	98.4	98.6	99.0	99.2	99.2	99.2
≥ 100	48.2	84.9	86.8	89.7	91.6	92.8	93.7	95.2	96.2	97.2	98.5	98.7	99.4	99.9	99.9	99.9
≥ 0	48.2	84.9	86.8	89.7	91.6	92.8	93.7	95.2	96.2	97.2	98.5	98.7	99.4	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	28.4	45.5	45.8	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 20000	32.4	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 18000	32.4	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 16000	32.4	52.7	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 14000	32.6	53.1	53.4	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
≥ 12000	33.1	54.2	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 10000	33.6	56.3	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 9000	34.2	56.9	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 8000	35.9	59.3	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 7000	36.5	59.9	60.2	60.3	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 6000	37.1	60.8	61.1	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 5000	38.1	62.5	62.7	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
≥ 4500	39.5	64.6	64.9	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 4000	40.3	66.0	66.3	66.5	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 3500	41.1	67.0	67.3	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 3000	42.1	69.2	69.5	70.1	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 2500	45.4	74.8	75.0	75.7	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 2000	46.1	77.6	78.1	78.7	79.2	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 1800	46.9	79.8	79.3	80.0	80.5	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 1500	48.4	82.5	83.4	84.0	84.8	84.9	85.4	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1200	49.4	84.0	85.2	85.8	86.8	86.9	87.5	87.6	87.6	87.7	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1000	49.8	84.8	86.7	87.5	88.8	89.0	89.6	89.9	89.9	90.0	90.2	90.2	90.2	90.2	90.2	90.2
≥ 900	49.9	85.2	87.1	88.0	89.4	89.5	90.1	90.5	90.6	90.7	91.0	91.0	91.0	91.0	91.0	91.0
≥ 800	49.8	85.4	87.5	88.7	90.1	90.4	91.0	91.5	91.6	91.8	92.0	92.0	92.1	92.1	92.1	92.1
≥ 700	49.8	85.6	88.0	89.5	91.0	91.4	92.0	92.8	92.9	93.0	93.3	93.3	93.4	93.4	93.4	93.4
≥ 600	49.8	85.8	88.2	90.0	91.6	92.0	92.8	93.8	93.9	94.2	94.4	94.4	94.6	94.6	94.6	94.6
≥ 500	49.8	85.8	88.2	90.1	91.9	92.3	93.0	94.2	94.4	94.7	94.9	94.9	95.1	95.1	95.1	95.1
≥ 400	49.8	85.8	88.2	90.1	91.9	92.5	93.5	95.3	95.6	96.1	96.5	96.5	96.6	96.6	96.6	96.6
≥ 300	49.8	85.8	88.2	90.1	92.1	92.8	93.8	95.7	95.9	96.6	97.1	97.1	97.2	97.2	97.2	97.2
≥ 200	49.8	85.8	88.2	90.1	92.1	92.8	93.8	95.8	96.3	97.2	98.1	98.4	98.9	98.9	99.0	99.0
≥ 100	49.8	85.8	88.2	90.1	92.1	92.8	93.8	95.8	96.3	97.2	98.1	98.6	99.2	99.2	99.5	99.5
≥ 0	49.8	85.8	88.2	90.1	92.1	92.8	93.8	95.8	96.3	97.2	98.1	98.6	99.2	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 789

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING	24.6	47.4	47.4	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 20000	32.5	54.0	54.0	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
≥ 18000	32.5	54.0	54.0	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
≥ 16000	32.5	54.0	54.0	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
≥ 14000	32.5	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	32.9	55.5	55.5	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
≥ 10000	33.9	56.7	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 9000	34.2	57.0	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	57.1
≥ 8000	35.3	59.1	59.1	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 7000	36.1	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 6000	36.7	61.5	61.5	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
≥ 5000	37.7	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 4500	40.0	66.6	66.7	66.8	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 4000	40.6	67.6	67.7	67.8	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 3500	42.6	70.2	70.6	70.9	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 3000	43.6	72.4	73.0	73.5	74.4	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 2500	46.9	76.8	77.4	77.9	78.8	78.8	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 2000	48.0	79.2	79.8	80.3	81.2	81.3	81.7	81.8	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1
≥ 1800	48.3	80.1	81.0	81.6	82.5	82.6	83.0	83.1	83.2	83.2	83.2	83.2	83.4	83.4	83.4	83.4
≥ 1500	49.4	82.7	83.9	84.7	85.6	85.8	86.3	86.4	86.5	86.8	86.8	86.8	86.9	86.9	86.9	86.9
≥ 1200	50.2	83.6	85.2	86.1	87.1	87.3	87.8	88.0	88.1	88.4	88.5	88.5	88.7	88.7	88.7	88.7
≥ 1000	50.3	84.1	86.1	87.4	88.5	88.7	89.2	89.4	89.5	89.8	90.0	90.2	90.3	90.3	90.3	90.3
≥ 900	50.7	84.9	87.0	88.3	89.7	89.8	90.3	90.5	90.7	90.9	91.2	91.3	91.4	91.4	91.4	91.4
≥ 800	50.7	85.0	87.4	88.8	90.4	90.5	91.0	91.3	91.6	91.9	92.2	92.3	92.6	92.6	92.6	92.6
≥ 700	50.7	85.4	87.8	89.5	91.6	91.7	92.2	92.7	92.9	93.3	93.6	93.7	93.9	93.9	93.9	93.9
≥ 600	50.7	85.5	87.9	89.8	92.1	92.2	92.7	93.2	93.4	93.8	94.2	94.3	94.6	94.6	94.6	94.6
≥ 500	50.7	85.6	88.0	90.0	92.7	92.8	93.4	94.1	94.3	94.8	95.3	95.5	95.7	95.7	95.7	95.7
≥ 400	50.7	85.6	88.1	90.2	92.8	92.9	93.8	94.8	95.3	96.1	97.0	97.1	97.5	97.5	97.5	97.5
≥ 300	50.7	85.6	88.1	90.2	92.8	93.1	94.1	95.6	96.2	97.0	98.0	98.1	98.5	98.6	98.6	98.6
≥ 200	50.7	85.6	88.1	90.2	92.8	93.2	94.2	95.8	96.5	97.2	98.4	98.7	99.1	99.2	99.2	99.2
≥ 100	50.7	85.6	88.1	90.2	92.8	93.2	94.2	95.8	96.5	97.2	98.5	98.9	99.2	99.5	99.6	99.6
≥ 0	50.7	85.6	88.1	90.2	92.8	93.2	94.2	95.8	96.5	97.2	98.5	98.9	99.2	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14839 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 7	≥2	≥1 7	≥1 4	≥1	≥ 3 4	≥ 1 2	≥ 5 8	≥ 5 16	≥ 4	≥0
NO CEILING	26.5	43.4	43.6	43.6	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 20000	30.8	51.1	51.3	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
≥ 18000	30.8	51.3	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
≥ 16000	30.8	51.3	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
≥ 14000	31.1	51.8	52.1	52.1	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	31.5	53.0	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 10000	32.4	54.1	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
≥ 9000	32.4	54.2	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 8000	34.0	57.4	57.9	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
≥ 7000	35.7	59.3	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 6000	35.4	59.8	60.3	60.4	60.7	60.7	60.7	60.7	60.7	60.9	61.0	61.0	61.0	61.0	61.0	61.0
≥ 5000	36.4	61.9	63.1	63.2	63.4	63.4	63.4	63.4	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8
≥ 4500	39.0	64.9	66.2	66.7	67.0	67.2	67.2	67.3	67.3	67.7	67.8	67.8	67.8	67.8	67.8	67.8
≥ 4000	39.6	66.0	67.2	67.7	68.0	68.2	68.3	68.5	68.5	69.0	69.1	69.1	69.1	69.1	69.1	69.1
≥ 3500	41.4	68.3	69.7	70.4	70.6	70.9	71.0	71.1	71.1	71.6	71.8	71.8	71.8	71.8	71.8	71.8
≥ 3000	42.8	70.1	71.6	72.9	73.1	73.4	73.5	73.6	73.6	74.1	74.3	74.3	74.3	74.3	74.3	74.3
≥ 2500	44.9	74.1	75.8	77.2	77.6	77.8	77.9	78.1	78.1	78.6	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2000	47.0	77.3	79.2	80.7	81.1	81.3	81.5	81.7	81.7	82.3	82.5	82.5	82.5	82.5	82.5	82.5
≥ 1800	47.3	77.9	79.9	81.5	81.8	82.1	82.2	82.5	82.5	83.1	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1500	47.3	79.4	81.6	83.1	83.9	84.1	84.4	84.7	84.7	85.4	85.5	85.5	85.5	85.5	85.5	85.5
≥ 1200	47.4	79.8	82.2	83.7	84.5	85.0	85.2	85.6	85.8	86.5	86.6	86.6	86.6	86.6	86.6	86.6
≥ 1000	47.7	80.3	83.0	84.7	85.8	86.3	86.6	87.1	87.3	88.1	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	47.8	80.6	83.5	85.2	86.3	86.9	87.3	87.8	87.9	88.8	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	48.0	81.3	84.2	86.0	87.0	87.6	88.0	88.8	88.9	89.8	90.0	90.0	90.0	90.0	90.0	90.0
≥ 700	48.0	82.0	84.9	86.8	87.9	88.5	88.9	89.8	89.9	90.8	91.0	91.0	91.0	91.0	91.0	91.0
≥ 600	48.0	82.0	84.9	86.9	88.3	88.9	89.9	90.8	90.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2
≥ 500	48.0	82.1	85.5	87.5	89.2	90.0	91.3	92.3	92.4	93.4	94.1	94.2	94.3	94.6	94.6	94.6
≥ 400	48.0	82.1	85.5	87.6	89.5	90.7	92.2	93.4	93.8	95.7	96.6	96.7	96.8	97.1	97.1	97.1
≥ 300	48.2	82.2	85.6	87.8	89.7	91.0	92.8	94.1	94.5	96.6	97.6	97.7	97.9	98.1	98.1	98.1
≥ 200	48.2	82.2	85.6	87.8	89.7	91.0	92.8	94.3	94.7	97.2	98.6	98.7	98.9	99.1	99.1	99.1
≥ 100	48.2	82.2	85.6	87.8	89.7	91.0	92.8	94.3	94.8	97.4	98.7	98.9	99.0	99.4	99.6	99.7
≥ 0	48.2	82.2	85.6	87.8	89.7	91.0	92.8	94.3	94.8	97.4	98.7	98.9	99.0	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	29.1	48.6	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	30.2	51.9	52.5	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
≥ 18000	30.2	51.9	52.5	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
≥ 16000	30.2	51.9	52.5	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
≥ 14000	30.3	52.1	52.6	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
≥ 12000	30.6	52.3	52.8	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 10000	31.4	53.6	54.1	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 9000	31.7	53.8	54.3	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
≥ 8000	32.3	54.8	55.3	55.7	55.8	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 7000	33.3	56.2	56.9	57.2	57.4	57.4	57.7	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 6000	34.5	59.0	58.6	59.0	59.1	59.1	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 5000	36.5	61.6	62.3	62.9	63.1	63.1	63.5	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 4500	38.2	64.4	65.2	65.8	66.2	66.2	66.5	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 4000	38.4	65.2	65.9	66.7	67.0	67.0	67.4	67.7	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9
≥ 3500	39.9	67.7	68.8	69.8	70.2	70.2	70.6	70.8	70.9	70.9	70.9	70.9	71.1	71.1	71.1	71.1
≥ 3000	41.9	70.8	71.9	73.0	73.3	73.3	73.7	74.0	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2
≥ 2500	43.8	73.7	75.1	76.1	76.5	76.5	77.0	77.2	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5
≥ 2000	44.8	76.1	77.7	78.9	79.5	79.5	80.1	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6
≥ 1800	44.9	76.9	78.6	79.9	80.5	80.5	81.1	81.4	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6
≥ 1500	45.5	78.6	80.6	82.0	82.9	82.9	83.6	83.9	84.0	84.0	84.0	84.0	84.2	84.2	84.2	84.2
≥ 1200	45.7	79.2	81.4	82.8	83.8	83.8	84.5	84.8	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0
≥ 1000	46.0	80.4	82.9	84.5	85.5	85.7	86.5	86.9	87.0	87.0	87.0	87.0	87.2	87.2	87.2	87.2
≥ 900	46.0	80.5	83.0	84.7	85.8	85.9	86.8	87.2	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4
≥ 800	46.2	80.9	83.5	85.2	86.3	86.4	87.4	87.8	87.9	87.9	87.9	87.9	88.1	88.1	88.1	88.1
≥ 700	46.2	81.3	84.0	85.9	87.5	87.7	89.1	89.4	89.6	89.6	89.7	89.7	89.8	89.8	89.8	89.8
≥ 600	46.4	82.0	85.2	87.2	89.2	89.3	90.9	91.9	92.1	92.1	92.2	92.2	92.3	92.3	92.3	92.3
≥ 500	46.7	82.5	85.8	88.3	91.1	91.3	93.1	94.2	94.3	94.5	94.6	94.6	94.7	94.7	94.7	94.7
≥ 400	46.8	83.1	86.8	89.3	92.3	92.6	95.0	96.4	96.5	96.7	97.0	97.0	97.1	97.1	97.1	97.1
≥ 300	46.8	83.3	86.9	89.6	92.6	92.8	95.3	96.7	96.9	97.4	97.6	97.6	97.7	97.7	97.9	97.9
≥ 200	46.8	83.3	86.9	89.6	93.0	93.2	95.8	97.4	97.5	98.9	99.1	99.1	99.2	99.2	99.4	99.4
≥ 100	46.8	83.3	86.9	89.6	93.0	93.2	95.8	97.4	97.5	98.9	99.1	99.1	99.4	99.4	99.5	99.5
≥ 0	46.8	83.3	86.9	89.6	93.0	93.2	95.8	97.4	97.5	98.9	99.1	99.1	99.4	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 795

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72839 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	29.4	47.1	47.4	47.6	47.7	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.9	47.9	47.9	47.9
≥ 20000	31.4	52.3	52.6	52.8	52.9	52.9	52.9	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1
≥ 18000	31.4	52.3	52.6	52.8	52.9	52.9	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.2
≥ 16000	31.4	52.3	52.6	52.8	52.9	52.9	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.2
≥ 14000	32.0	52.7	53.0	53.1	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.5
≥ 12000	32.4	53.4	53.7	53.9	54.0	54.0	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3
≥ 10000	33.1	54.8	55.1	55.3	55.4	55.4	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7
≥ 9000	33.3	55.0	55.3	55.5	55.6	55.6	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.9	55.9
≥ 8000	34.6	57.2	57.5	57.7	57.9	57.9	58.0	58.0	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.2
≥ 7000	35.6	58.6	59.0	59.2	59.3	59.4	59.5	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.8
≥ 6000	36.3	59.8	60.1	60.4	60.5	60.6	60.7	60.8	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.0
≥ 5000	37.6	62.2	62.7	63.0	63.3	63.3	63.5	63.6	63.7	63.8	63.8	63.8	63.8	63.8	63.9	63.9
≥ 4500	39.1	64.6	65.2	65.6	65.9	66.0	66.2	66.4	66.5	66.6	66.6	66.6	66.7	66.7	66.7	66.7
≥ 4000	39.5	65.6	66.2	66.7	67.1	67.2	67.5	67.6	67.7	67.9	67.9	67.9	67.9	68.0	68.0	68.0
≥ 3500	40.6	67.7	68.4	68.9	69.4	69.5	69.8	70.0	70.1	70.2	70.3	70.3	70.3	70.3	70.4	70.4
≥ 3000	41.9	69.8	70.6	71.3	71.9	72.0	72.3	72.5	72.6	72.7	72.8	72.8	72.9	72.9	72.9	73.0
≥ 2500	43.7	73.4	74.4	75.1	75.8	75.9	76.3	76.5	76.5	76.7	76.8	76.8	76.8	76.8	76.9	76.9
≥ 2000	45.1	76.0	77.1	78.0	78.7	78.9	79.3	79.6	79.6	79.8	79.9	79.9	80.0	80.0	80.0	80.1
≥ 1800	45.5	76.9	78.1	79.0	79.8	79.9	80.3	80.6	80.7	80.9	80.9	80.9	81.0	81.0	81.1	81.1
≥ 1500	46.8	79.6	80.9	81.9	82.8	83.0	83.5	83.8	83.8	84.1	84.2	84.2	84.2	84.2	84.3	84.3
≥ 1200	47.1	80.7	82.2	83.3	84.3	84.5	85.0	85.3	85.4	85.7	85.9	85.9	85.9	85.9	86.0	86.0
≥ 1000	47.6	81.6	83.4	84.7	85.7	86.0	86.6	87.0	87.1	87.4	87.6	87.6	87.6	87.7	87.7	87.7
≥ 900	47.7	81.9	83.8	85.1	86.2	86.5	87.1	87.5	87.6	87.9	88.1	88.2	88.2	88.2	88.3	88.3
≥ 800	47.8	82.2	84.3	85.7	86.9	87.2	87.9	88.4	88.6	88.9	89.2	89.2	89.2	89.3	89.3	89.4
≥ 700	47.8	82.8	85.1	86.6	88.0	88.4	89.2	89.8	89.9	90.3	90.6	90.6	90.7	90.7	90.8	90.8
≥ 600	47.8	83.1	85.4	87.1	88.8	89.2	90.1	90.9	91.0	91.5	91.8	91.8	91.9	91.9	92.0	92.0
≥ 500	47.9	83.4	85.8	87.8	89.8	90.3	91.3	92.2	92.5	93.0	93.5	93.5	93.6	93.7	93.7	93.8
≥ 400	47.9	83.6	86.3	88.4	90.7	91.4	92.7	94.0	94.3	95.1	95.7	95.7	95.9	96.0	96.1	96.1
≥ 300	47.9	83.8	86.4	88.6	91.0	91.8	93.3	94.8	95.2	96.2	96.9	96.9	97.1	97.2	97.3	97.4
≥ 200	47.9	83.8	86.5	88.6	91.1	91.9	93.6	95.3	95.8	97.1	98.0	98.2	98.4	98.5	98.7	98.7
≥ 100	47.9	83.8	86.5	88.6	91.1	92.0	93.7	95.4	96.0	97.3	98.2	98.5	98.9	99.1	99.4	99.5
≥ 0	47.9	83.8	86.5	88.6	91.1	92.0	93.7	95.4	96.0	97.3	98.2	98.5	98.9	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6333

USAF ETAC FORM 101 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	32.3	56.1	57.2	58.9	60.2	60.3	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.9	60.9
≥ 20000	34.5	58.9	60.4	62.5	63.9	64.0	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6
≥ 18000	34.5	58.9	60.4	62.5	63.9	64.0	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6
≥ 16000	34.5	58.9	60.4	62.5	63.9	64.0	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6
≥ 14000	34.5	58.9	60.4	62.5	63.9	64.0	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6
≥ 12000	34.8	59.4	61.2	63.3	64.6	64.7	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.4	65.4
≥ 10000	35.6	61.0	62.8	64.9	66.2	66.3	66.8	66.8	66.8	67.0	67.0	67.0	67.0	67.0	67.1	67.1
≥ 9000	35.9	61.4	63.1	65.2	66.6	66.7	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.4	67.4
≥ 8000	37.1	63.6	65.5	67.7	69.1	69.2	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.9	69.9
≥ 7000	37.5	65.0	66.8	69.1	70.5	70.7	71.1	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.4	71.4
≥ 6000	37.9	66.5	68.6	70.9	72.4	72.5	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.2	73.2
≥ 5000	40.1	69.9	72.3	75.1	76.6	76.7	77.4	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.7	77.7
≥ 4500	42.3	72.3	74.7	77.8	79.3	79.4	80.1	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.5	80.5
≥ 4000	42.3	72.5	75.0	78.2	79.7	79.8	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.9	80.9
≥ 3500	42.4	74.6	77.1	80.5	81.8	81.9	82.7	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1
≥ 3000	43.0	75.2	77.7	81.0	82.5	82.6	83.5	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.8	83.8
≥ 2500	44.4	77.6	80.0	83.5	85.0	85.1	85.9	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.3	86.3
≥ 2000	44.5	78.1	80.6	84.1	85.6	85.7	86.6	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.9	86.9
≥ 1800	45.0	78.8	81.4	84.8	86.3	86.4	87.3	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.7	87.7
≥ 1500	46.2	80.5	83.1	86.7	88.2	88.3	89.3	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.6	89.6
≥ 1200	46.7	81.1	83.7	87.3	88.8	88.9	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.3	90.3
≥ 1000	47.2	82.1	85.0	88.8	90.3	90.4	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.9	91.9
≥ 900	47.2	82.1	85.0	88.8	90.3	90.4	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	92.0	92.0
≥ 800	47.5	82.5	85.3	89.3	90.9	91.0	92.1	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.6	92.6
≥ 700	47.7	82.7	85.8	89.9	91.5	91.6	92.7	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.2	93.2
≥ 600	47.8	82.9	86.4	90.8	92.4	92.5	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	94.1	94.1
≥ 500	47.8	82.9	86.4	90.8	92.4	92.5	93.7	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.2	94.2
≥ 400	47.8	82.9	86.6	91.9	94.2	94.5	95.7	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.3	96.3
≥ 300	47.8	82.9	86.6	92.0	94.3	94.7	96.3	96.7	96.7	96.8	96.9	96.9	96.9	96.9	97.2	97.2
≥ 200	47.8	82.9	86.6	92.2	94.7	95.1	96.8	97.2	97.2	97.9	98.2	98.2	98.2	98.2	98.4	98.4
≥ 100	47.8	82.9	86.7	92.4	94.8	95.2	97.2	97.7	97.8	98.6	99.0	99.0	99.0	99.0	99.3	99.3
≥ 0	47.8	82.9	86.7	92.4	94.8	95.2	97.2	97.7	97.8	98.6	99.0	99.0	99.0	99.0	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 811

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	51.1	52.5	54.2	55.8	56.9	57.2	57.9	58.4	58.4	58.7	58.7	58.7	58.7	58.7	58.9	58.9
≥ 20000	51.9	54.6	56.3	58.1	59.4	59.7	60.4	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.5	61.5
≥ 18000	51.9	54.6	56.3	58.1	59.4	59.7	60.4	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.5	61.5
≥ 16000	51.9	54.6	56.3	58.1	59.4	59.7	60.4	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.5	61.5
≥ 14000	51.9	54.6	56.3	58.1	59.4	59.7	60.4	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.5	61.5
≥ 12000	51.9	54.8	56.6	58.3	59.7	59.9	60.7	61.3	61.3	61.5	61.5	61.5	61.5	61.5	61.8	61.8
≥ 10000	32.3	56.5	58.2	59.9	61.3	61.5	62.3	62.9	62.9	63.2	63.2	63.2	63.2	63.2	63.4	63.4
≥ 9000	33.3	57.1	58.8	60.5	61.9	62.2	62.9	63.5	63.5	63.8	63.8	63.8	63.8	63.8	64.0	64.0
≥ 8000	34.4	58.9	60.7	62.4	63.9	64.1	64.9	65.5	65.5	65.8	65.8	65.8	65.8	65.8	66.0	66.0
≥ 7000	34.9	60.3	62.3	64.0	65.6	65.9	66.7	67.4	67.4	67.6	67.6	67.6	67.6	67.6	67.9	67.9
≥ 6000	35.9	62.2	64.3	66.1	67.9	68.1	69.0	69.6	69.6	69.9	69.9	69.9	69.9	69.9	70.1	70.1
≥ 5000	37.5	65.9	68.1	70.2	72.2	72.5	73.3	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.4	74.4
≥ 4500	40.6	70.0	72.2	74.4	76.4	76.7	77.5	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.7	78.7
≥ 4000	40.6	70.3	72.7	74.9	76.9	77.2	78.0	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.3	79.3
≥ 3500	41.3	71.6	73.9	76.2	78.2	78.4	79.4	8 .1	80.1	80.4	80.4	80.4	80.4	80.4	80.6	80.6
≥ 3000	42.1	73.1	75.4	77.7	79.8	80.0	81.0	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.4	82.4
≥ 2500	42.6	74.3	76.8	79.0	81.1	81.4	82.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.9	83.9
≥ 2000	43.2	75.6	78.0	80.3	82.4	82.6	83.7	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.4	85.4
≥ 1800	43.4	76.1	78.5	80.8	82.9	83.1	84.2	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.9	85.9
≥ 1500	43.7	76.9	79.4	81.6	83.7	84.0	85.4	86.5	86.5	86.7	86.7	86.7	86.7	86.7	87.0	87.0
≥ 1200	43.9	77.3	79.8	82.0	84.2	84.5	85.9	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.5	87.5
≥ 1000	43.9	78.2	80.6	83.0	85.4	85.6	87.0	88.1	88.1	8.3	88.3	88.3	88.3	88.3	88.6	88.6
≥ 900	43.9	78.4	80.9	83.3	85.6	85.9	87.2	88.3	88.3	88.6	88.6	88.6	88.6	88.6	88.8	88.8
≥ 800	44.5	79.3	81.8	84.1	86.5	86.7	88.1	89.2	89.2	89.5	89.5	89.5	89.5	89.5	89.7	89.7
≥ 700	45.2	79.9	82.4	84.7	87.1	87.5	88.8	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.6	90.6
≥ 600	45.2	80.4	83.1	85.5	87.8	88.2	89.6	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.3	91.3
≥ 500	45.2	80.9	83.9	86.2	89.1	89.5	90.8	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.6	92.6
≥ 400	45.2	80.9	84.4	87.3	90.7	91.3	92.7	93.9	94.0	94.3	94.4	94.4	94.5	94.5	94.8	94.8
≥ 300	45.2	81.1	84.9	88.0	91.7	92.6	94.5	95.8	96.0	96.4	96.8	96.8	96.9	96.9	97.1	97.1
≥ 200	45.2	81.1	85.0	88.6	92.3	93.3	95.3	96.5	96.8	97.3	97.8	97.8	98.1	98.1	98.5	98.5
≥ 100	45.2	81.1	85.0	88.6	92.3	93.3	95.4	96.7	96.9	97.6	98.4	98.5	98.9	98.9	99.8	99.8
≥ 0	45.2	81.1	85.0	88.6	92.3	93.3	95.4	96.7	96.9	97.6	98.4	98.5	98.9	99.0	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 806

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.[illegible]	≥2	≥1.[illegible]	≥1.[illegible]	≥1	≥[illegible]	≥[illegible]	≥[illegible]	≥5/16	≥[illegible]	≥0
NO CEILING	28.2	46.7	47.7	49.0	51.0	51.1	51.3	51.8	51.8	52.0	52.1	52.1	52.2	52.2	52.3	[illegible].4
≥ 20000	29.6	49.4	50.7	52.2	54.5	54.6	54.9	55.4	55.4	55.5	55.6	55.6	55.7	55.7	55.9	56.0
≥ 18000	29.6	49.4	50.7	52.2	54.5	54.6	54.9	55.4	55.4	55.5	55.6	55.6	55.7	55.7	55.9	56.0
≥ 16000	29.6	49.4	50.7	52.2	54.5	54.6	54.9	55.4	55.4	55.5	55.6	55.6	55.7	55.7	55.9	56.0
≥ 14000	29.6	49.4	50.7	52.2	54.5	54.6	54.9	55.4	55.4	55.5	55.6	55.6	55.7	55.7	55.9	56.0
≥ 12000	30.0	50.4	51.7	53.3	55.9	56.0	56.2	56.7	56.7	57.0	57.1	57.1	57.2	57.2	57.3	57.5
≥ 10000	30.7	52.3	53.9	55.5	58.4	58.6	58.9	59.4	59.4	59.7	59.8	59.8	59.9	59.9	60.0	60.1
≥ 9000	30.8	52.4	54.0	55.6	58.6	58.7	59.0	59.5	59.5	59.8	59.9	59.9	60.0	60.0	60.1	60.3
≥ 8000	32.3	55.3	56.8	58.4	61.4	61.5	61.9	62.3	62.3	62.6	62.7	62.7	62.8	62.8	63.0	63.1
≥ 7000	33.1	56.8	58.4	60.0	63.0	63.1	63.6	64.1	64.1	64.3	64.4	64.4	64.5	64.5	64.7	64.8
≥ 6000	34.2	59.2	59.8	61.6	64.8	64.9	65.5	66.0	66.0	66.3	66.4	66.4	66.5	66.5	66.6	66.7
≥ 5000	35.6	60.8	62.5	64.5	68.0	68.2	68.8	69.3	69.3	69.6	69.7	69.7	69.8	69.8	69.9	70.0
≥ 4500	38.3	64.1	66.1	68.2	71.6	72.1	72.7	73.5	73.6	73.8	74.0	74.0	74.1	74.1	74.2	74.3
≥ 4000	38.3	64.8	66.9	69.1	72.5	73.0	73.6	74.3	74.4	74.7	74.8	74.8	74.9	74.9	75.1	75.2
≥ 3500	39.6	66.4	68.5	70.7	74.4	74.9	75.6	76.3	76.4	76.8	76.9	76.9	77.0	77.0	77.1	77.3
≥ 3000	40.5	68.2	70.5	72.7	76.7	77.3	78.0	78.7	78.9	79.2	79.3	79.3	79.5	79.5	79.6	79.7
≥ 2500	41.2	69.3	71.8	74.0	78.0	78.6	79.3	80.1	80.2	80.6	80.7	80.7	80.8	80.8	80.9	81.1
≥ 2000	42.4	71.4	73.8	76.0	80.1	80.7	81.5	82.3	82.4	82.8	82.9	82.9	83.0	83.0	83.1	83.3
≥ 1800	42.5	71.8	74.2	76.5	80.6	81.2	82.3	83.0	83.1	83.5	83.6	83.6	83.7	83.7	83.9	84.0
≥ 1500	42.7	73.3	75.8	78.2	82.4	83.0	84.2	85.0	85.1	85.5	85.6	85.6	85.7	85.7	85.8	85.9
≥ 1200	43.4	74.6	77.0	79.5	83.6	84.2	85.5	86.2	86.3	86.7	86.8	86.8	86.9	86.9	87.0	87.2
≥ 1000	43.8	75.4	77.9	80.3	84.5	85.1	86.3	87.0	87.2	87.5	87.7	87.7	87.9	87.9	88.0	88.1
≥ 900	44.3	76.0	78.5	80.9	85.1	85.7	86.9	87.8	87.9	88.3	88.4	88.4	88.6	88.6	88.8	88.9
≥ 800	44.4	76.4	78.9	81.3	85.5	86.1	87.3	88.1	88.3	88.6	88.8	88.8	89.0	89.0	89.1	89.2
≥ 700	44.4	77.1	79.8	82.3	86.6	87.3	88.6	89.5	89.6	90.1	90.2	90.2	90.5	90.5	90.6	90.7
≥ 600	44.5	77.9	80.7	83.1	87.4	88.1	89.7	90.6	90.7	91.2	91.3	91.3	91.6	91.6	91.7	91.8
≥ 500	44.5	78.1	80.9	83.6	88.0	88.9	90.6	91.7	91.8	92.4	92.7	92.7	92.9	92.9	93.0	93.2
≥ 400	44.7	78.5	81.3	84.5	89.5	90.3	92.2	93.5	93.8	94.9	95.4	95.4	95.6	95.6	95.7	95.8
≥ 300	44.7	78.5	81.3	84.5	89.6	90.7	92.7	94.1	94.5	95.6	96.3	96.3	96.6	96.6	96.7	96.8
≥ 200	44.7	78.5	81.3	84.5	89.7	91.0	93.0	95.0	95.4	96.8	97.6	97.6	97.8	97.9	98.5	98.7
≥ 100	44.7	78.5	81.3	84.5	89.7	91.0	93.0	95.1	95.5	97.1	97.9	97.9	98.3	98.5	99.4	99.9
≥ 0	44.7	78.5	81.3	84.5	89.7	91.0	93.0	95.1	95.5	97.1	97.9	97.9	98.3	98.5	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 818

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7 639 — STATION | PHELPS-COLLINS/ALPENA MI — STATION NAME | 73-81 — YEARS | MAY — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1102 — HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0
NO CEILING	32.4	49.2	49.8	50.9	51.9	52.1	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 20000	34.4	52.9	54.[illegible]	55.3	56.3	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000	34.4	52.9	54.[illegible]	55.3	56.3	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 16000	34.4	52.9	54.[illegible]	55.3	56.3	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 14000	34.4	52.9	54.[illegible]	55.3	56.3	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 12000	34.7	53.5	54.5	55.9	56.9	57.1	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 10000	35.3	56.0	57.1	58.5	59.6	59.8	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000	35.3	56.0	57.1	58.5	59.6	59.8	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 8000	36.6	58.6	59.8	61.2	62.3	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000	37.1	59.7	60.9	62.3	63.4	63.7	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 6000	37.5	60.4	61.7	63.2	64.3	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 5000	38.7	62.0	63.5	65.1	66.2	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	40.7	64.7	66.7	68.3	69.4	69.7	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 4000	41.1	65.4	67.4	69.0	70.2	70.6	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 3500	41.5	66.3	68.5	70.2	71.4	71.8	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 3000	42.9	69.1	71.6	73.3	74.5	74.8	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 2500	45.1	72.9	75.5	77.2	78.4	78.8	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 2000	46.0	76.6	79.1	81.1	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 1800	46.5	77.5	80.1	82.1	83.8	84.1	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500	47.6	81.0	83.5	85.5	87.3	87.7	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1200	48.1	82.4	85.1	87.2	89.0	89.5	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1000	48.2	83.0	85.7	87.9	89.9	90.5	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	48.2	83.2	86.0	88.3	90.2	90.8	91.1	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5
≥ 800	48.5	83.4	86.3	88.9	91.1	91.8	92.1	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6
≥ 700	48.6	83.6	86.5	89.5	91.9	92.8	93.3	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9
≥ 600	48.6	83.8	86.8	89.7	92.4	93.3	93.8	94.3	94.3	94.4	94.6	94.6	94.6	94.6	94.6
≥ 500	48.6	83.9	87.2	90.2	93.2	94.3	95.0	95.5	95.5	95.7	96.0	96.0	96.0	96.0	96.0
≥ 400	48.6	83.9	87.2	90.4	93.3	94.4	95.1	95.7	95.7	96.3	96.8	96.8	96.8	96.8	96.8
≥ 300	48.6	83.9	87.2	90.4	93.4	94.5	95.2	96.0	96.0	97.3	97.9	97.9	97.9	98.2	98.2
≥ 200	48.6	83.9	87.2	90.4	93.4	94.7	95.6	96.3	96.3	97.9	98.8	98.8	98.9	99.3	99.3
≥ 100	48.6	83.9	87.2	90.4	93.4	94.7	95.6	96.3	96.3	97.9	99.0	99.0	99.3	99.4	100.0
≥ 0	48.6	83.9	87.2	90.4	93.4	94.7	95.6	96.3	96.3	97.9	99.0	99.0	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 819

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

/ 739 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	53.9	51.8	52.1	52.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	55.9	55.9	56.5	57.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 18000	55.9	55.9	56.5	57.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 16000	55.9	55.9	56.5	57.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 14000	55.9	55.9	56.9	57.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 12000	56.0	57.0	57.7	58.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 11000	58.7	59.0	60.1	61.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 9000	58.5	59.1	60.2	61.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 8000	59.2	61.2	62.7	64.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000	59.5	61.7	63.2	64.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 6000	59.7	62.0	63.5	64.9	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 5000	59.9	64.1	66.1	67.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 4500	41.7	67.4	69.4	70.7	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 4000	42.3	69.4	71.5	72.8	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3500	43.7	71.8	73.9	75.4	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3000	45.4	74.3	76.2	77.8	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 2500	47.3	76.2	80.5	82.2	83.3	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2000	49.1	82.2	84.5	86.2	87.3	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800	49.3	82.9	85.2	87.0	88.0	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1500	49.6	84.5	86.8	88.7	89.9	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1200	50.3	85.7	88.2	90.0	91.3	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1000	50.3	86.5	89.3	91.2	92.7	92.9	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 900	50.1	86.8	89.8	91.8	93.3	93.5	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
≥ 800	50.1	87.0	89.9	92.2	93.7	93.9	94.4	94.4	94.4	94.5	94.5	94.5	94.6	94.6	94.6
≥ 700	50.1	87.1	91.4	92.8	94.4	94.6	95.1	95.1	95.1	95.4	95.4	95.4	95.5	95.5	95.5
≥ 600	50.2	87.3	90.7	93.3	95.1	95.4	95.9	96.0	96.0	96.2	96.2	96.2	96.3	96.3	96.3
≥ 500	50.2	87.4	91.0	93.8	95.9	96.1	96.7	97.1	97.3	97.6	97.6	97.6	97.7	97.7	97.7
≥ 400	50.2	87.4	91.1	93.9	96.0	96.2	97.1	97.7	97.9	98.4	98.4	98.4	98.5	98.5	98.5
≥ 300	50.2	87.4	91.1	93.9	96.1	96.5	97.3	98.0	98.5	99.0	99.0	99.0	99.1	99.1	99.1
≥ 200	50.2	87.4	91.1	93.9	96.1	96.5	97.3	98.2	98.8	99.3	99.4	99.4	99.5	99.5	99.5
≥ 100	50.2	87.4	91.1	93.9	96.1	96.5	97.3	98.3	98.9	99.4	99.6	99.6	99.8	99.8	99.9	100.0
≥ 0	50.2	87.4	91.1	93.9	96.1	96.5	97.3	98.3	98.9	99.4	99.6	99.6	99.8	99.8	99.9	100.0

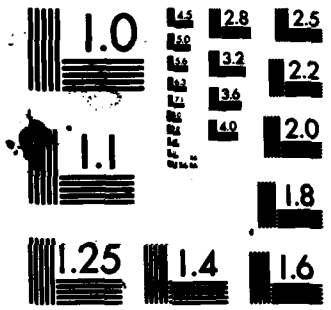
TOTAL NUMBER OF OBSERVATIONS 5[illegible]

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

AD-A116 099 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
PHELPS-COLLINS, ALPENA, MICHIGAN, REVISED UNIFORM SUMMARY OF SU--ETC(U)
MAY 82

UNCLASSIFIED USAFETAC/DS-82/031 SBI-AD-E850 176 NL

3 OF 5



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	31.5	49.9	50.3	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 20000	35.3	56.8	57.4	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 18000	35.3	56.8	57.4	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 16000	35.3	56.8	57.4	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 14000	35.3	56.9	57.5	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 12000	35.5	57.8	58.4	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 10000	36.6	61.0	61.6	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 9000	36.6	61.0	61.6	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 8000	37.3	62.5	63.2	64.4	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 7000	38.3	63.8	64.5	66.0	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 6000	39.2	65.0	65.9	67.3	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 5000	40.5	66.6	67.9	69.6	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4500	43.9	71.5	73.1	74.8	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 4000	44.4	73.2	75.2	76.9	77.4	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 3500	44.7	75.4	77.4	79.3	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	46.0	79.6	81.6	83.7	84.3	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2500	47.5	83.0	85.3	87.5	88.1	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	47.9	84.0	86.5	89.2	89.8	90.1	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	48.1	84.6	87.1	89.8	90.5	90.7	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500	48.7	85.6	88.4	91.2	91.8	92.0	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200	49.1	86.3	89.2	92.0	92.7	92.9	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	49.1	87.0	90.2	93.4	94.0	94.4	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 900	49.1	87.1	90.3	93.5	94.1	94.5	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 800	49.2	87.3	90.5	93.6	94.4	94.7	95.2	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 700	49.2	87.3	90.5	93.9	94.7	95.1	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 600	49.2	87.4	90.6	94.4	95.0	95.3	95.8	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 500	49.3	88.0	91.2	94.6	95.7	96.1	96.7	97.2	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	49.3	88.0	91.3	94.9	96.1	96.7	97.4	98.0	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	49.3	88.0	91.3	94.9	96.2	96.9	97.7	98.4	98.5	98.8	99.1	99.1	99.4	99.4	99.4	99.4
≥ 200	49.3	88.0	91.3	94.9	96.2	96.9	97.7	98.4	98.5	98.8	99.1	99.1	99.5	99.5	99.5	99.5
≥ 100	49.3	88.0	91.3	94.9	96.2	96.9	97.7	98.4	98.5	98.8	99.3	99.3	99.9	99.9	99.9	99.9
≥ 0	49.3	88.0	91.3	94.9	96.2	96.9	97.7	98.4	98.5	98.8	99.3	99.3	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 817

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 1800-2000

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	32.0	50.5	51.7	52.4	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 20000	35.2	56.6	58.5	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 18000	35.2	56.6	58.5	59.2	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	35.2	56.6	58.5	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 14000	35.3	57.1	59.0	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 12000	35.9	58.9	60.8	61.7	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 10000	37.5	62.2	64.1	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	37.6	62.3	64.2	65.1	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 8000	38.8	64.1	66.2	67.3	67.8	67.8	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.1
≥ 7000	39.5	65.7	67.8	68.9	69.3	69.5	69.5	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.8
≥ 6000	40.1	67.4	69.5	70.6	71.0	71.0	71.2	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.5
≥ 5000	41.0	68.9	70.9	72.1	72.6	72.6	72.7	73.0	73.0	73.2	73.2	73.4	73.4	73.4	73.4	73.5
≥ 4500	43.7	73.2	75.3	76.5	77.0	77.0	77.1	77.4	77.4	77.6	77.7	77.9	77.9	77.9	77.9	78.0
≥ 4000	44.3	75.1	77.3	78.5	79.2	79.3	79.6	79.8	79.8	80.0	80.2	80.3	80.3	80.3	80.3	80.4
≥ 3500	46.2	78.0	80.3	81.6	82.5	82.6	82.8	83.1	83.1	83.3	83.5	83.6	83.6	83.6	83.6	83.7
≥ 3000	46.8	79.6	82.0	83.6	84.4	84.7	84.9	85.2	85.2	85.4	85.5	85.6	85.6	85.6	85.6	85.8
≥ 2500	47.7	81.9	84.4	86.3	87.3	87.6	87.8	88.1	88.1	88.3	88.4	88.6	88.7	88.7	88.7	88.8
≥ 2000	48.3	82.8	85.5	87.6	88.7	88.9	89.3	89.5	89.5	89.8	89.9	90.0	90.1	90.1	90.1	90.3
≥ 1800	48.5	83.1	86.0	88.2	89.4	89.8	90.1	90.4	90.4	90.6	90.8	90.9	91.0	91.0	91.0	91.1
≥ 1500	48.8	83.7	86.7	88.9	90.3	90.6	91.0	91.2	91.4	91.7	91.8	92.0	92.2	92.2	92.2	92.3
≥ 1200	48.9	84.3	87.3	89.5	91.1	91.6	92.0	92.2	92.3	92.7	92.8	92.9	93.2	93.2	93.2	93.3
≥ 1000	49.0	84.7	87.8	90.1	91.8	92.3	92.7	92.9	93.1	93.4	93.6	93.7	93.9	93.9	93.9	94.0
≥ 900	49.0	84.8	88.0	90.3	92.0	92.5	92.8	93.1	93.2	93.6	93.7	93.8	94.0	94.0	94.0	94.2
≥ 800	49.0	84.8	88.1	90.5	92.3	92.9	93.3	93.6	93.7	94.0	94.2	94.3	94.5	94.5	94.5	94.6
≥ 700	49.1	85.0	88.3	90.8	92.6	93.2	93.6	93.8	93.9	94.3	94.4	94.5	94.8	94.8	94.8	94.9
≥ 600	49.1	85.3	88.6	91.0	93.1	93.7	94.0	94.3	94.4	94.8	94.9	95.0	95.3	95.3	95.3	95.4
≥ 500	49.1	85.3	88.6	91.5	93.8	94.3	94.8	95.1	95.3	95.6	95.9	96.0	96.4	96.4	96.4	96.5
≥ 400	49.1	85.8	89.3	92.3	94.9	95.6	96.4	96.8	97.0	97.6	98.1	98.2	98.5	98.5	98.5	98.7
≥ 300	49.1	85.8	89.3	92.3	95.3	96.0	96.7	97.4	97.6	98.3	98.8	98.9	99.3	99.3	99.3	99.4
≥ 200	49.1	85.8	89.3	92.5	95.4	96.1	96.8	97.7	97.8	98.5	99.0	99.1	99.5	99.5	99.5	99.6
≥ 100	49.1	85.8	89.3	92.5	95.4	96.1	96.8	97.7	97.8	98.5	99.0	99.1	99.5	99.5	99.5	99.6
≥ 0	49.1	85.8	89.3	92.5	95.4	96.1	96.8	97.7	97.8	98.5	99.0	99.1	99.5	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 822

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0100-0300 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING	32.3	55.7	56.8	57.9	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9
≥ 20000	34.3	59.5	61.1	62.4	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4
≥ 18000	34.3	59.5	61.1	62.4	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4
≥ 16000	34.3	59.5	61.1	62.4	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4
≥ 14000	34.3	59.6	61.2	62.5	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5
≥ 12000	34.5	60.2	61.9	63.3	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.3	64.3
≥ 10000	35.0	61.8	63.5	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.9	65.9
≥ 9000	35.9	62.7	64.4	65.7	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.7	66.7
≥ 8000	37.5	65.0	67.1	68.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.8	69.8
≥ 7000	38.4	66.1	68.2	69.8	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
≥ 6000	39.2	67.9	70.0	71.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.1	73.1
≥ 5000	40.0	70.1	72.5	74.7	75.9	76.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.6	76.6
≥ 4500	41.4	73.1	75.9	78.1	79.4	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.2	80.2
≥ 4000	42.0	73.8	76.7	78.9	80.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0
≥ 3500	43.8	76.5	79.4	81.6	83.1	83.2	84.0	84.0	84.0	84.2	84.2	84.2	84.2	84.2	84.3	84.3
≥ 3000	44.1	77.4	80.4	82.7	84.2	84.3	85.1	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.4	85.4
≥ 2500	44.6	78.9	82.0	84.6	86.0	86.2	87.0	87.0	87.0	87.3	87.3	87.3	87.3	87.3	87.4	87.4
≥ 2000	45.7	81.0	84.2	87.1	88.6	88.7	89.6	89.6	89.6	89.8	89.8	89.8	89.8	89.8	90.0	90.0
≥ 1800	46.0	81.8	85.1	88.1	89.6	89.7	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.9	90.9
≥ 1500	46.1	82.0	85.6	88.6	90.2	90.3	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.6	91.6
≥ 1200	46.4	82.3	85.8	89.0	90.6	90.7	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.9	91.9
≥ 1000	46.6	83.0	86.7	90.1	91.8	91.9	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.1	93.1
≥ 900	46.8	83.0	86.8	90.2	91.9	92.0	92.9	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.3	93.3
≥ 800	46.9	83.1	87.0	90.5	92.2	92.3	93.1	93.1	93.1	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥ 700	46.9	83.2	87.4	90.8	92.5	92.9	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 600	46.9	83.2	87.4	90.8	92.5	92.9	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 500	46.9	83.4	87.5	91.1	92.8	93.1	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.4	94.4
≥ 400	46.9	83.5	87.9	92.2	94.4	94.9	95.8	96.1	96.1	96.6	96.6	96.6	96.6	96.6	96.7	96.7
≥ 300	46.9	83.5	87.9	92.7	94.9	95.5	96.6	96.9	96.9	97.6	97.8	97.8	97.8	97.8	97.9	97.9
≥ 200	46.9	83.5	87.9	93.0	95.3	96.0	97.6	97.9	97.9	98.5	98.8	98.8	98.8	98.8	98.9	98.9
≥ 100	46.9	83.5	87.9	93.0	95.3	96.0	97.6	97.9	98.0	98.8	99.1	99.1	99.4	99.4	99.5	99.5
≥ 0	46.9	83.5	87.9	93.0	95.3	96.0	97.6	97.9	98.0	98.8	99.1	99.1	99.4	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 817

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

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	51.7	51.5	52.5	53.6	54.6	54.7	54.8	55.0	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.2
≥ 20000	58.9	55.6	56.9	58.2	59.2	59.4	59.5	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.9
≥ 18000	33.9	55.6	56.9	58.2	59.3	59.4	59.5	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.9	59.9
≥ 16000	33.9	55.6	56.9	58.2	59.3	59.4	59.5	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.9	59.9
≥ 14000	33.9	55.7	57.0	58.3	59.4	59.5	59.6	59.8	59.8	59.9	59.9	59.9	59.9	59.9	60.0	60.0
≥ 12000	34.2	56.5	57.9	59.3	60.4	60.5	60.6	60.8	60.8	60.9	60.9	60.9	60.9	60.9	61.0	61.0
≥ 10000	35.0	58.7	60.2	61.5	62.7	62.8	63.0	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.4	63.4
≥ 9000	35.3	59.0	60.4	61.8	63.0	63.1	63.3	63.4	63.4	63.5	63.5	63.5	63.6	63.6	63.6	63.6
≥ 8000	36.5	61.2	62.7	64.2	65.5	65.6	65.8	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.2	66.2
≥ 7000	37.1	62.4	64.0	65.6	66.8	67.0	67.2	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.6	67.6
≥ 6000	37.8	63.7	65.4	67.0	68.4	68.5	68.8	68.9	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.2
≥ 5000	39.1	66.0	67.9	69.8	71.2	71.4	71.7	71.9	71.9	72.0	72.1	72.1	72.1	72.1	72.2	72.2
≥ 4500	41.5	69.5	71.7	73.6	75.0	75.2	75.6	75.8	75.8	75.9	76.0	76.0	76.0	76.0	76.1	76.1
≥ 4000	41.9	70.6	72.8	74.8	76.2	76.5	76.9	77.1	77.1	77.2	77.3	77.3	77.3	77.3	77.4	77.4
≥ 3500	43.0	72.6	74.9	76.9	78.5	78.7	79.1	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.7	79.7
≥ 3000	43.8	74.5	76.9	79.1	80.7	8 .9	81.4	81.7	81.7	81.8	81.9	81.9	81.9	81.9	82.0	82.0
≥ 2500	45.0	77.0	79.5	81.8	83.4	83.7	84.2	84.5	84.5	84.7	84.7	84.7	84.8	84.8	84.8	84.9
≥ 2000	45.9	79.0	81.6	84.0	85.7	85.9	86.5	86.8	86.8	87.0	87.0	87.0	87.1	87.1	87.2	87.2
≥ 1800	46.2	79.6	82.2	84.7	86.4	86.7	87.3	87.6	87.6	87.8	87.8	87.8	87.9	87.9	87.9	88.0
≥ 1500	46.7	80.9	83.7	86.2	88.0	88.3	89.0	89.3	89.3	89.5	89.5	89.6	89.6	89.6	89.7	89.7
≥ 1200	47.1	81.8	84.5	87.1	88.9	89.2	90.0	90.3	90.3	90.5	90.5	90.5	90.6	90.6	90.7	90.7
≥ 1000	47.3	82.5	85.4	88.1	90.0	90.4	91.1	91.5	91.5	91.7	91.7	91.7	91.8	91.8	91.9	91.9
≥ 900	47.3	82.7	85.7	88.4	90.3	90.7	91.4	91.8	91.8	92.0	92.0	92.1	92.1	92.1	92.2	92.2
≥ 800	47.5	83.0	86.0	88.8	90.8	91.2	92.0	92.3	92.4	92.6	92.6	92.6	92.7	92.7	92.8	92.8
≥ 700	47.7	83.3	86.4	89.3	91.4	91.9	92.7	93.1	93.2	93.4	93.4	93.4	93.5	93.5	93.6	93.6
≥ 600	47.7	83.5	86.8	89.8	92.0	92.4	93.3	93.7	93.8	94.0	94.1	94.1	94.2	94.2	94.3	94.3
≥ 500	47.7	83.7	87.1	90.2	92.6	93.1	94.0	94.6	94.6	94.9	95.0	95.0	95.1	95.1	95.2	95.3
≥ 400	47.7	83.9	87.4	90.9	93.6	94.2	95.3	96.0	96.1	96.6	96.8	96.8	96.9	96.9	97.0	97.0
≥ 300	47.7	83.9	87.6	91.1	93.9	94.7	95.9	96.7	96.8	97.5	97.8	97.9	98.0	98.0	98.1	98.1
≥ 200	47.7	83.9	87.5	91.2	94.2	94.9	96.3	97.2	97.3	98.1	98.6	98.6	98.8	98.8	99.0	99.1
≥ 100	47.7	83.9	87.5	91.3	94.2	95.0	96.3	97.3	97.5	98.3	98.9	99.0	99.2	99.3	99.6	99.7
≥ 0	47.7	83.9	87.5	91.3	94.2	95.0	96.3	97.3	97.5	98.3	98.9	99.0	99.2	99.3	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6330

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

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

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	54.3	55.8	58.9	59.9	60.9	61.0	61.8	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3	62.3
≥ 20000	54.7	57.5	60.9	62.2	63.6	63.7	64.8	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.4	65.4
≥ 18000	54.7	57.6	61.0	62.3	63.7	63.8	64.9	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.6	65.6
≥ 16000	54.7	57.6	61.0	62.3	63.7	63.8	64.9	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.6	65.6
≥ 14000	54.7	57.7	61.1	62.4	63.8	63.9	65.1	65.4	65.4	65.4	65.4	65.4	65.6	65.6	65.7	65.7
≥ 12000	55.3	58.4	61.8	63.2	64.6	64.7	65.8	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.5	66.5
≥ 10000	56.5	60.3	63.8	65.2	66.6	66.7	67.8	68.2	68.2	68.2	68.2	68.2	68.4	68.4	68.5	68.5
≥ 9000	56.6	60.6	64.3	65.7	67.1	67.2	68.4	68.7	68.7	68.7	68.7	68.7	68.9	68.9	69.0	69.0
≥ 8000	57.1	62.4	66.2	67.8	69.2	69.4	70.5	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.1	71.[illegible]
≥ 7000	57.5	64.1	68.1	69.7	71.3	71.4	72.5	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.2	73.[illegible]
≥ 6000	58.5	66.3	70.4	72.5	74.1	74.2	75.3	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.9	76.[illegible]
≥ 5000	59.7	69.4	73.5	75.6	77.7	77.8	79.0	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.6	79.[illegible]
≥ 4500	61.6	71.8	76.2	78.4	80.6	80.8	81.9	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.5	82.[illegible]
≥ 4000	61.6	71.9	76.3	79.0	81.1	81.3	82.5	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.2	83.[illegible]
≥ 3500	62.0	74.6	79.4	82.0	84.2	84.3	85.8	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.5	86.[illegible]
≥ 3000	62.2	75.3	80.3	83.2	85.4	85.6	87.2	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.8	87.8
≥ 2500	62.3	75.8	80.8	83.7	85.9	86.1	87.7	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.4	88.4
≥ 2000	62.5	77.1	82.3	85.2	87.5	87.6	89.2	89.6	89.6	89.6	89.6	89.6	89.7	89.7	89.9	89.9
≥ 1800	62.9	77.6	82.8	85.7	88.0	88.1	89.7	90.1	90.1	90.1	90.1	90.1	90.3	90.3	90.4	90.4
≥ 1500	63.0	79.0	84.3	87.2	89.5	89.6	91.3	91.6	91.6	91.6	91.8	91.8	91.9	91.9	92.0	92.0
≥ 1200	63.2	79.5	84.8	88.0	90.3	90.4	92.0	92.4	92.4	92.4	92.5	92.5	92.7	92.7	92.8	92.8
≥ 1000	63.2	80.0	85.3	88.6	90.9	91.0	92.7	93.0	93.0	93.0	93.2	93.2	93.3	93.3	93.4	93.4
≥ 900	63.4	80.4	85.7	89.0	91.3	91.4	93.0	93.4	93.4	93.4	93.5	93.5	93.7	93.7	93.8	93.8
≥ 800	63.4	80.8	86.1	89.4	91.8	91.9	93.5	93.9	93.9	93.9	94.1	94.1	94.2	94.2	94.3	94.3
≥ 700	63.4	81.0	86.6	90.0	92.4	92.5	94.2	94.6	94.6	94.6	94.7	94.7	94.8	94.8	94.9	94.9
≥ 600	63.4	81.0	86.8	90.4	92.8	92.9	94.6	94.9	94.9	94.9	95.1	95.1	95.2	95.2	95.3	95.3
≥ 500	63.5	81.3	87.2	90.9	93.3	93.4	95.1	95.4	95.4	95.4	95.6	95.6	95.7	95.7	95.8	95.8
≥ 400	63.5	81.3	87.7	91.4	93.8	93.9	95.6	95.9	95.9	95.9	96.2	96.2	96.3	96.3	96.5	96.5
≥ 300	63.9	81.6	88.0	91.6	94.1	94.2	95.8	96.3	96.3	96.3	96.7	96.7	96.8	96.8	97.0	97.0
≥ 200	63.9	81.6	88.0	91.6	94.1	94.2	95.9	96.5	96.5	96.5	97.3	97.3	97.5	97.5	97.6	97.6
≥ 100	63.9	81.6	88.0	91.6	94.1	94.2	95.9	96.5	96.5	97.0	97.7	97.7	98.0	98.0	99.0	99.0
≥ 0	63.9	81.6	88.0	91.6	94.1	94.2	95.9	96.5	96.5	97.0	97.7	97.7	98.0	98.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 790

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	29.6	48.3	50.2	50.9	52.2	52.3	53.2	54.0	54.0	54.2	54.6	54.6	54.7	54.7	55.2	58.2
≥ 20000	30.0	51.2	53.2	54.7	56.0	56.1	57.1	58.1	58.2	58.5	58.9	58.9	59.0	59.0	59.5	59.6
≥ 18000	30.0	51.2	53.2	54.7	56.0	56.1	57.1	58.1	58.2	58.5	58.9	58.9	59.0	59.0	59.5	59.6
≥ 16000	30.8	51.2	53.2	54.7	56.0	56.1	57.1	58.1	58.2	58.5	58.9	58.9	59.0	59.0	59.5	59.6
≥ 14000	30.9	51.6	53.6	55.1	56.4	56.5	57.5	58.5	58.6	58.9	59.2	59.2	59.4	59.4	59.9	60.0
≥ 12000	31.7	52.3	54.3	56.0	57.2	57.4	58.4	59.4	59.5	59.7	60.1	60.1	60.3	60.3	60.8	60.9
≥ 10000	32.5	54.0	56.0	57.7	59.0	59.1	60.1	61.1	61.3	61.5	61.9	61.9	62.0	62.0	62.5	62.6
≥ 9000	32.5	54.5	56.5	58.4	59.6	59.7	60.8	61.8	61.9	62.1	62.5	62.5	62.6	62.6	63.1	63.3
≥ 8000	33.7	57.5	60.0	61.9	63.1	63.4	64.4	65.4	65.5	65.8	66.2	66.2	66.3	66.3	66.8	66.9
≥ 7000	34.3	59.5	62.0	63.9	65.2	65.4	66.4	67.4	67.5	67.8	68.2	68.2	68.3	68.3	68.8	68.9
≥ 6000	34.7	60.8	63.5	65.9	67.4	67.7	68.8	69.8	69.9	70.2	70.6	70.6	70.7	70.7	71.2	71.3
≥ 5000	35.2	63.3	66.3	69.4	71.1	71.3	72.6	73.6	73.7	74.1	74.5	74.5	74.6	74.6	75.2	75.3
≥ 4500	36.1	66.5	69.7	73.2	74.8	75.1	76.4	77.4	77.5	77.9	78.2	78.2	78.4	78.4	79.0	79.1
≥ 4000	36.2	66.9	70.1	73.8	75.5	75.7	77.0	78.0	78.1	78.6	79.0	79.0	79.1	79.1	79.7	79.9
≥ 3500	37.0	69.2	72.3	76.1	77.7	78.0	79.2	80.3	80.4	80.9	81.3	81.3	81.4	81.4	82.0	82.1
≥ 3000	37.5	70.9	74.3	78.2	80.0	80.3	81.6	82.6	82.8	83.3	83.6	83.6	83.8	83.8	84.4	84.5
≥ 2500	37.6	71.4	74.8	78.9	80.8	81.0	82.6	83.6	83.8	84.3	84.7	84.7	84.8	84.8	85.4	85.5
≥ 2000	38.0	72.7	76.2	80.3	82.1	82.4	84.0	85.0	85.2	85.8	86.2	86.2	86.3	86.3	86.9	87.0
≥ 1800	38.0	73.1	76.6	80.6	82.5	82.8	84.4	85.4	85.5	86.2	86.5	86.5	86.7	86.7	87.3	87.4
≥ 1500	38.7	74.5	78.0	82.0	83.9	84.2	85.8	86.8	86.9	87.5	87.9	87.9	88.1	88.1	88.7	88.8
≥ 1200	39.2	75.6	79.1	83.1	85.0	85.3	86.9	87.9	88.1	88.7	89.1	89.1	89.2	89.2	89.8	89.9
≥ 1000	39.2	76.5	80.0	84.0	85.9	86.2	88.1	89.1	89.2	89.8	90.2	90.2	90.4	90.4	91.1	91.2
≥ 900	39.5	77.0	80.6	84.7	86.5	86.8	88.7	89.7	89.8	90.4	90.8	90.8	91.1	91.1	91.7	91.8
≥ 800	39.7	77.5	81.1	85.3	87.3	87.5	89.4	90.4	90.6	91.2	91.6	91.6	91.8	91.8	92.5	92.6
≥ 700	40.1	78.2	81.9	86.2	88.3	88.6	90.4	91.4	91.6	92.2	92.6	92.6	92.8	92.8	93.5	93.6
≥ 600	40.3	78.7	82.4	86.8	88.9	89.2	91.1	92.1	92.2	92.8	93.2	93.2	93.5	93.5	94.1	94.2
≥ 500	40.5	79.0	82.8	87.3	89.4	89.7	91.6	92.6	92.7	93.3	93.7	93.7	94.0	94.0	94.6	94.7
≥ 400	40.5	79.0	82.9	87.4	89.7	89.9	91.8	92.8	93.0	93.6	94.0	94.0	94.2	94.2	94.8	95.0
≥ 300	40.5	79.0	83.0	87.7	90.1	90.4	92.5	93.7	93.8	94.5	95.0	95.0	95.2	95.2	95.8	96.0
≥ 200	40.5	79.0	83.0	87.7	90.1	90.4	92.7	94.2	94.3	95.0	95.7	95.8	96.2	96.2	96.9	97.0
≥ 100	40.5	79.0	83.0	87.8	90.2	90.6	92.8	94.3	94.5	95.3	96.1	96.2	97.0	97.0	98.2	98.7
≥ 0	40.6	79.1	83.1	87.9	90.3	90.7	93.0	94.5	94.6	95.5	96.2	96.4	97.1	97.2	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 795

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	28.4	47.6	49.2	50.1	51.8	52.2	53.0	53.5	53.5	54.1	54.2	54.2	54.2	54.2	54.2	54.3
≥ 20000	29.5	50.9	52.5	53.7	55.8	56.2	57.1	57.6	57.6	58.1	58.2	58.2	58.2	58.2	58.2	58.5
≥ 18000	29.5	50.9	52.5	53.7	55.8	56.2	57.1	57.6	57.6	58.1	58.2	58.2	58.2	58.2	58.2	58.5
≥ 16000	29.5	50.9	52.5	53.7	55.8	56.2	57.1	57.6	57.6	58.1	58.2	58.2	58.2	58.2	58.2	58.5
≥ 14000	29.6	51.1	52.8	53.9	56.1	56.5	57.3	57.8	57.8	58.4	58.5	58.5	58.5	58.5	58.5	58.7
≥ 12000	30.0	51.5	53.2	54.3	56.5	56.8	57.7	58.2	58.2	58.7	58.9	58.9	58.9	58.9	58.9	59.1
≥ 10000	30.8	53.4	55.1	56.5	58.6	59.0	60.1	60.8	60.8	61.3	61.4	61.4	61.4	61.4	61.4	61.6
≥ 9000	31.0	54.6	56.2	57.7	59.9	60.3	61.4	62.0	62.0	62.5	62.7	62.7	62.7	62.7	62.7	62.9
≥ 8000	32.2	56.8	58.5	60.3	62.7	63.2	64.3	64.9	64.9	65.4	65.7	65.7	65.7	65.7	65.7	65.9
≥ 7000	33.5	59.1	60.8	62.5	64.9	65.4	66.7	67.5	67.5	68.0	68.2	68.2	68.2	68.2	68.2	68.5
≥ 6000	34.1	60.4	62.2	64.1	66.5	67.0	68.2	69.0	69.0	69.5	69.7	69.7	69.7	69.7	69.7	70.0
≥ 5000	34.6	61.9	63.7	65.7	68.1	68.6	70.0	70.8	70.8	71.3	71.5	71.5	71.5	71.5	71.5	71.8
≥ 4500	35.3	63.5	65.4	67.5	69.9	70.4	71.8	72.7	72.7	73.2	73.4	73.4	73.4	73.4	73.4	73.7
≥ 4000	35.8	65.1	67.0	69.1	71.5	72.0	73.4	74.3	74.3	74.8	75.1	75.1	75.1	75.1	75.1	75.3
≥ 3500	36.3	67.2	69.2	71.3	74.2	74.7	76.3	77.3	77.3	77.8	78.1	78.1	78.1	78.1	78.1	78.4
≥ 3000	36.5	68.5	70.5	72.8	75.4	75.9	77.6	78.6	78.6	79.1	79.4	79.4	79.4	79.4	79.4	79.6
≥ 2500	37.0	69.7	71.8	74.1	77.1	77.7	79.6	80.6	80.6	81.1	81.6	81.6	81.6	81.6	81.6	81.9
≥ 2000	37.5	71.1	73.3	75.7	78.7	79.5	81.4	82.4	82.4	82.9	83.4	83.4	83.4	83.4	83.4	83.7
≥ 1800	38.0	71.8	74.1	76.5	79.5	80.3	82.2	83.2	83.2	83.7	84.2	84.2	84.2	84.2	84.2	84.4
≥ 1500	38.2	73.0	75.6	78.1	81.1	82.0	83.9	84.9	84.9	85.4	85.9	85.9	86.2	86.2	86.2	86.5
≥ 1200	38.4	73.8	76.5	79.6	82.3	83.2	85.1	86.1	86.1	86.6	87.1	87.1	87.3	87.3	87.3	87.6
≥ 1000	39.1	75.6	78.4	80.9	84.2	85.2	87.3	88.4	88.4	88.9	89.4	89.4	89.6	89.6	89.6	89.9
≥ 900	39.2	76.2	79.2	81.8	85.1	86.1	88.2	89.2	89.2	89.7	90.3	90.3	90.5	90.5	90.5	90.8
≥ 800	39.7	77.2	80.3	82.8	86.3	87.3	89.5	90.5	90.5	91.0	91.5	91.5	91.8	91.8	91.8	92.0
≥ 700	39.7	77.6	80.6	83.4	87.0	88.0	90.1	91.3	91.3	91.8	92.3	92.3	92.5	92.7	92.7	92.9
≥ 600	39.7	78.2	81.3	84.3	88.0	89.0	91.1	92.4	92.4	92.9	93.4	93.4	93.7	93.8	93.8	94.1
≥ 500	39.7	78.4	81.5	84.7	88.5	89.7	92.2	93.7	93.7	94.2	94.7	94.7	94.9	95.1	95.1	95.4
≥ 400	39.7	78.5	81.8	85.3	89.2	90.5	93.2	94.8	94.8	95.8	96.3	96.3	96.7	96.8	96.8	97.2
≥ 300	39.7	78.6	82.0	85.7	89.7	91.1	93.9	95.8	95.8	97.1	97.6	97.6	98.0	98.1	98.2	98.6
≥ 200	39.7	78.6	82.0	85.7	89.7	91.1	93.9	95.9	95.9	97.2	97.8	97.8	98.4	98.5	98.6	99.1
≥ 100	39.7	78.6	82.0	85.7	89.7	91.1	93.9	95.9	95.9	97.2	97.8	97.8	98.4	98.9	99.1	99.7
≥ 0	39.7	78.6	82.0	85.7	89.7	91.1	93.9	95.9	95.9	97.2	97.8	97.8	98.4	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 790

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	31.9	50.7	51.3	52.0	52.5	52.5	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 20000	33.0	53.7	54.4	55.0	55.5	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 18000	33.0	53.7	54.4	55.0	55.5	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 16000	33.0	53.7	54.4	55.0	55.5	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 14000	33.3	54.2	54.9	55.5	56.0	56.1	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 12000	33.9	55.1	55.7	56.5	57.0	57.1	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	34.6	57.8	58.5	59.5	60.0	60.2	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 9000	34.7	58.4	59.1	60.2	60.7	60.8	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 8000	36.7	61.7	62.7	64.2	64.9	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 7000	37.1	63.4	64.5	66.0	66.7	66.8	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000	37.8	64.4	65.7	67.5	68.2	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 5000	38.5	65.8	67.2	69.0	69.7	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4500	39.0	67.1	68.7	70.7	71.5	71.6	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 4000	39.8	68.7	70.4	72.4	73.1	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 3500	41.1	71.4	73.0	75.0	75.8	75.9	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 3000	41.2	72.0	73.8	76.0	76.9	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 2500	42.5	74.3	76.0	78.4	79.6	79.7	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 2000	43.8	76.8	78.7	81.3	82.5	82.6	82.8	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1800	44.1	77.6	79.7	82.3	83.5	83.6	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 1500	45.3	81.2	83.6	86.3	87.4	87.5	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1200	46.2	83.7	86.1	88.8	89.9	90.0	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1000	46.3	85.1	87.6	90.4	91.6	91.7	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 900	46.3	85.5	88.0	90.9	92.1	92.2	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 800	46.5	86.3	88.9	92.3	93.4	93.6	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	46.7	86.6	89.5	92.9	94.3	94.5	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 600	46.7	87.0	90.0	93.4	95.0	95.2	95.6	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	46.7	87.4	90.7	94.1	95.7	96.3	96.8	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 400	46.7	87.6	91.0	94.6	96.5	97.1	98.2	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	46.7	87.6	91.0	94.7	96.6	97.2	98.6	99.0	99.0	99.2	99.4	99.4	99.5	99.5	99.5	99.5
≥ 200	46.7	87.6	91.0	94.7	96.6	97.2	98.6	99.1	99.1	99.4	99.5	99.5	99.7	99.7	99.7	99.7
≥ 100	46.7	87.6	91.0	94.7	96.6	97.2	98.6	99.1	99.1	99.4	99.5	99.5	99.7	99.7	100.0	100.0
≥ 0	46.7	87.6	91.0	94.7	96.6	97.2	98.6	99.1	99.1	99.4	99.5	99.5	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	31.5	49.1	49.2	49.4	49.4	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 20000	35.4	56.7	56.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000	35.4	56.7	56.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 16000	35.4	56.7	56.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 14000	35.8	57.6	57.8	58.1	58.1	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 12000	36.7	58.8	58.9	59.3	59.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 10000	37.6	61.5	61.7	62.2	62.4	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 9000	37.8	62.0	62.2	62.7	62.9	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 8000	38.6	63.9	64.2	64.7	65.2	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 7000	39.6	65.3	65.6	66.1	66.6	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 6000	40.1	66.3	66.6	67.2	67.7	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 5000	40.7	68.0	68.3	69.0	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 4500	41.6	69.9	70.4	71.0	71.5	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4000	43.1	73.5	74.1	74.9	75.5	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 3500	44.6	76.0	76.9	77.7	78.3	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 3000	46.3	78.7	79.6	80.5	81.1	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2500	47.4	82.0	83.2	84.5	85.1	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000	49.1	85.5	86.8	88.4	89.0	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1800	49.4	86.3	87.5	89.2	89.8	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	50.3	89.3	90.7	92.3	92.9	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1200	50.4	89.8	91.2	92.9	93.7	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	50.7	90.4	91.9	93.8	94.6	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	50.7	90.4	92.1	93.9	94.7	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	50.7	90.5	92.3	94.2	95.0	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 700	50.8	90.7	92.6	94.6	95.3	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 600	50.8	90.9	92.8	94.8	95.7	96.7	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500	50.8	91.2	93.1	95.1	96.2	97.2	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400	50.8	91.3	93.3	95.3	96.5	97.9	98.2	98.6	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	50.8	91.3	93.3	95.5	96.6	98.0	98.4	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	50.8	91.3	93.3	95.5	96.6	98.1	98.5	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	50.8	91.3	93.3	95.5	96.6	98.1	98.5	98.9	99.2	99.4	99.5	99.5	99.5	99.6	99.7	100.0
≥ 0	50.8	91.3	93.3	95.5	96.6	98.1	98.5	98.9	99.2	99.4	99.5	99.5	99.5	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	52.4	51.0	51.3	52.4	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 20000	35.8	57.3	57.8	59.1	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 18000	35.8	57.3	57.8	59.1	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 16000	35.8	57.3	57.8	59.1	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 14000	36.1	58.1	58.6	59.9	60.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 12000	36.6	58.7	59.2	60.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 10000	37.6	60.3	60.8	62.2	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 9000	37.7	60.9	61.4	62.8	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 8000	38.2	64.2	64.7	66.1	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 7000	39.6	66.2	66.7	68.2	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 6000	40.4	68.2	68.7	70.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	42.5	71.3	71.9	74.1	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	44.9	75.9	76.6	79.0	80.3	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 4000	45.4	77.7	78.4	80.9	82.2	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3500	47.1	80.4	81.1	83.7	84.9	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3000	48.4	83.3	84.1	86.6	87.8	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	49.4	84.9	85.7	88.5	90.0	90.4	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2000	49.9	86.8	87.6	90.5	92.0	92.4	92.5	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1800	50.1	87.2	88.0	91.0	92.7	93.0	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1500	50.5	88.1	89.2	92.5	94.2	94.8	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1200	50.8	88.9	90.0	93.3	95.1	95.7	95.9	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1000	50.8	89.6	90.8	94.2	95.9	96.6	96.8	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	50.8	89.7	90.9	94.3	96.3	97.0	97.2	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	50.8	89.9	91.1	94.6	96.6	97.2	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	50.8	90.0	91.3	94.7	96.7	97.3	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 600	50.8	90.1	91.4	94.8	96.8	97.5	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	50.8	90.5	91.9	95.3	97.3	98.0	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 400	50.8	90.5	91.9	95.3	97.3	98.0	98.5	98.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0
≥ 300	50.8	90.5	91.9	95.3	97.3	98.0	98.5	99.0	99.1	99.2	99.2	99.5	99.5	99.5	99.5	99.5
≥ 200	50.8	90.5	91.9	95.3	97.3	98.0	98.5	99.1	99.2	99.5	99.5	99.9	99.9	99.9	99.9	99.9
≥ 100	50.8	90.5	91.9	95.3	97.3	98.0	98.5	99.1	99.2	99.5	99.5	99.9	99.9	100.0	100.0	100.0
≥ 0	50.8	90.5	91.9	95.3	97.3	98.0	98.5	99.1	99.2	99.5	99.5	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 790

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	[illegible]
NO CEILING	54.0	55.1	54.0	56.0	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	[illegible]
≥ 20000	57.6	58.3	59.1	61.4	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	[illegible]
≥ 18000	37.6	58.3	59.1	61.4	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	[illegible]
≥ 16000	37.6	58.3	59.1	61.4	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	[illegible]
≥ 14000	37.6	58.3	59.1	61.4	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	[illegible]
≥ 12000	38.7	59.8	60.7	62.9	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	[illegible]
≥ 10000	40.0	65.2	64.2	66.6	67.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	[illegible]
≥ 9000	40.1	65.7	64.7	67.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	[illegible]
≥ 8000	41.4	67.3	68.5	71.2	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	[illegible]
≥ 7000	42.1	69.1	70.2	73.1	74.4	74.7	74.7	74.7	74.7	74.9	74.9	74.9	74.9	74.9	74.9	[illegible]
≥ 6000	42.5	69.9	71.0	74.0	75.4	75.7	75.7	75.7	75.7	75.9	75.9	75.9	75.9	75.9	75.9	[illegible]
≥ 5000	43.0	72.0	73.5	76.8	78.4	78.7	78.7	78.7	78.7	78.9	78.9	78.9	78.9	78.9	78.9	[illegible]
≥ 4500	45.8	77.0	78.8	82.6	84.2	84.5	84.5	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	[illegible]
≥ 4000	46.3	78.3	80.1	84.0	86.0	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	[illegible]
≥ 3500	47.0	79.7	81.6	85.8	87.9	88.1	88.1	88.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	[illegible]
≥ 3000	48.3	81.7	83.6	87.8	89.9	90.2	90.2	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	[illegible]
≥ 2500	48.3	82.6	84.9	89.2	91.3	91.6	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	[illegible]
≥ 2000	49.1	84.7	87.0	91.3	93.6	93.8	93.9	93.9	93.9	94.2	94.3	94.3	94.3	94.3	94.3	[illegible]
≥ 1800	49.4	85.6	87.9	92.2	94.5	94.7	94.8	94.8	94.8	95.1	95.2	95.2	95.2	95.2	95.2	[illegible]
≥ 1500	49.7	86.5	88.8	93.2	95.6	95.8	96.1	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	[illegible]
≥ 1200	49.7	87.0	89.3	93.7	96.1	96.3	96.6	96.6	96.6	96.8	97.0	97.0	97.0	97.0	97.0	[illegible]
≥ 1000	49.7	87.0	89.3	93.7	96.1	96.5	96.8	96.8	96.8	97.1	97.2	97.2	97.2	97.2	97.2	[illegible]
≥ 900	49.7	87.1	89.5	93.9	96.3	96.7	97.1	97.1	97.1	97.4	97.5	97.5	97.5	97.5	97.5	[illegible]
≥ 800	49.7	87.3	89.7	94.1	96.5	96.8	97.2	97.2	97.2	97.5	97.6	97.6	97.6	97.6	97.6	[illegible]
≥ 700	49.7	87.3	89.7	94.3	96.7	97.1	97.5	97.5	97.5	97.7	97.9	97.9	97.9	97.9	97.9	[illegible]
≥ 600	49.8	87.4	89.9	94.7	97.1	97.5	98.0	98.0	98.0	98.2	98.4	98.5	98.5	98.5	98.5	[illegible]
≥ 500	49.8	87.5	90.0	94.8	97.2	97.6	98.1	98.1	98.1	98.4	98.5	98.6	98.6	98.6	98.6	[illegible]
≥ 400	49.8	87.5	90.2	95.0	97.4	97.7	98.4	98.4	98.4	98.6	98.9	99.0	99.0	99.0	99.0	[illegible]
≥ 300	49.8	87.5	90.2	95.0	97.4	97.7	98.6	98.6	98.6	98.9	99.2	99.4	99.4	99.4	99.4	[illegible]
≥ 200	49.8	87.5	90.2	95.0	97.4	97.7	98.6	98.6	98.6	98.9	99.2	99.5	99.5	99.5	99.5	[illegible]
≥ 100	49.8	87.5	90.2	95.0	97.4	97.7	98.6	98.6	98.6	98.9	99.2	99.5	99.5	99.7	100.0	[illegible]
≥ 0	49.8	87.5	90.2	95.0	97.4	97.7	98.6	98.6	98.6	98.9	99.2	99.5	99.5	99.7	100.0	[illegible]

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	53.4	53.4	55.5	56.9	58.0	58.3	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.9
≥ 20000	55.0	57.0	59.7	61.6	62.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	64.0	64.0	64.0	64.0
≥ 18000	35.0	57.0	59.7	61.6	62.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	64.0	64.0	64.0	64.0
≥ 16000	35.0	57.0	59.7	61.6	62.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	64.0	64.0	64.0	64.0
≥ 14000	35.0	57.0	59.7	61.6	62.8	63.1	63.8	63.8	63.8	63.8	63.8	63.8	64.0	64.0	64.0	64.0
≥ 12000	35.9	57.9	60.6	62.5	63.7	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.9	64.9	64.9	64.9
≥ 10000	36.5	59.5	62.6	64.7	66.0	66.2	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1
≥ 9000	36.5	59.9	63.0	65.1	66.5	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6
≥ 8000	38.4	63.7	66.8	69.2	70.5	70.8	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7
≥ 7000	38.9	65.9	68.9	71.3	72.7	72.9	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8
≥ 6000	39.7	67.1	70.2	72.8	74.5	74.7	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6
≥ 5000	41.1	69.0	72.2	74.8	77.0	77.2	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1
≥ 4500	42.7	71.8	75.7	78.8	80.9	81.2	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0
≥ 4000	43.1	72.6	76.5	79.6	81.9	82.2	82.9	82.9	82.9	82.9	82.9	82.9	83.1	83.1	83.1	83.1
≥ 3500	44.1	74.5	78.4	81.8	84.2	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3
≥ 3000	45.0	76.2	80.3	83.9	86.3	86.6	87.5	87.5	87.5	87.6	87.6	87.6	87.7	87.7	87.7	87.7
≥ 2500	45.1	77.4	81.8	85.5	87.9	88.4	89.3	89.3	89.3	89.5	89.5	89.5	89.6	89.6	89.6	89.6
≥ 2000	45.5	79.3	83.8	87.6	90.0	90.8	91.7	91.7	91.7	91.9	91.9	91.9	92.0	92.0	92.0	92.0
≥ 1800	45.5	79.4	83.9	87.7	90.1	90.9	91.8	91.8	91.8	92.0	92.0	92.0	92.2	92.2	92.2	92.2
≥ 1500	45.6	80.5	85.2	89.0	91.7	92.4	93.3	93.6	93.6	93.8	93.8	93.8	93.9	93.9	93.9	93.9
≥ 1200	45.6	80.8	85.6	89.4	92.2	92.9	93.8	94.1	94.1	94.3	94.3	94.3	94.4	94.4	94.4	94.4
≥ 1000	45.8	81.4	86.2	90.1	93.0	93.8	94.7	94.9	94.9	95.2	95.2	95.2	95.3	95.3	95.3	95.3
≥ 900	45.8	81.5	86.3	90.3	93.2	93.9	94.9	95.2	95.2	95.4	95.4	95.4	95.6	95.6	95.6	95.6
≥ 800	45.8	81.8	86.6	90.5	93.4	94.2	95.3	95.6	95.6	95.8	95.8	95.8	96.0	96.0	96.0	96.0
≥ 700	45.8	82.0	87.0	90.9	93.9	94.7	95.8	96.1	96.1	96.3	96.3	96.3	96.5	96.5	96.5	96.5
≥ 600	45.8	82.0	87.2	91.3	94.3	95.1	96.3	96.6	96.6	96.8	96.8	96.8	97.0	97.0	97.0	97.0
≥ 500	45.9	82.3	87.6	91.7	94.8	95.7	97.0	97.2	97.2	97.5	97.5	97.5	97.6	97.6	97.6	97.6
≥ 400	45.9	82.3	87.6	91.9	95.1	96.0	97.3	97.6	97.6	97.9	97.9	97.9	98.0	98.0	98.0	98.0
≥ 300	45.9	82.7	88.0	92.3	95.6	96.5	98.0	98.2	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7
≥ 200	45.9	82.7	88.0	92.3	95.6	96.5	98.1	98.4	98.4	98.9	98.9	99.0	99.1	99.1	99.1	99.1
≥ 100	45.9	82.7	88.0	92.3	95.6	96.5	98.1	98.4	98.4	98.9	99.0	99.2	99.5	99.6	100.0	100.0
≥ 0	45.9	82.7	88.0	92.3	95.6	96.5	98.1	98.4	98.4	98.9	99.0	99.2	99.5	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 791

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	32.0	51.1	52.4	53.4	54.3	54.6	55.0	55.2	55.2	55.3	55.4	55.4	55.4	55.4	55.5	55.5
≥ 20000	34.0	55.3	56.8	58.1	59.2	59.4	59.9	60.2	60.2	60.3	60.3	60.3	60.4	60.4	60.5	60.5
≥ 18000	34.0	55.3	56.8	58.1	59.2	59.4	59.9	60.2	60.2	60.3	60.4	60.4	60.4	60.4	60.5	60.5
≥ 16000	34.0	55.3	56.8	58.1	59.2	59.4	59.9	60.2	60.2	60.3	60.4	60.4	60.4	60.4	60.5	60.5
≥ 14000	34.1	55.7	57.2	58.5	59.5	59.8	60.3	60.6	60.6	60.7	60.7	60.7	60.8	60.8	60.9	60.9
≥ 12000	34.9	56.6	58.0	59.4	60.4	60.7	61.2	61.5	61.5	61.6	61.6	61.6	61.7	61.7	61.8	61.8
≥ 10000	35.7	58.7	60.3	61.8	62.9	63.2	63.7	64.0	64.0	64.1	64.2	64.2	64.2	64.2	64.3	64.3
≥ 9000	35.9	59.3	60.9	62.5	63.6	63.9	64.4	64.7	64.7	64.8	64.8	64.8	64.9	64.9	65.0	65.0
≥ 8000	37.0	62.2	63.9	65.7	66.9	67.2	67.7	68.0	68.0	68.1	68.2	68.2	68.2	68.2	68.3	68.4
≥ 7000	37.8	64.0	65.8	67.6	68.9	69.2	69.7	70.0	70.0	70.1	70.2	70.2	70.3	70.3	70.3	70.4
≥ 6000	38.5	65.4	67.3	69.3	70.6	71.0	71.5	71.8	71.8	71.9	72.0	72.0	72.1	72.1	72.1	72.2
≥ 5000	39.5	67.6	69.6	71.8	73.3	73.6	74.2	74.5	74.5	74.7	74.7	74.7	74.8	74.8	74.9	74.9
≥ 4500	40.9	70.4	72.7	75.2	76.7	77.0	77.6	77.9	78.0	78.1	78.2	78.2	78.2	78.2	78.3	78.4
≥ 4000	41.4	71.8	74.1	76.7	78.4	78.7	79.3	79.6	79.6	79.8	79.9	79.9	79.9	79.9	80.0	80.1
≥ 3500	42.4	74.1	76.5	79.2	80.9	81.2	81.9	82.3	82.3	82.4	82.5	82.5	82.6	82.6	82.7	82.7
≥ 3000	43.2	75.8	78.3	81.1	82.9	83.2	83.9	84.3	84.3	84.5	84.6	84.6	84.6	84.6	84.7	84.8
≥ 2500	43.7	77.3	79.9	82.8	84.7	85.1	85.9	86.3	86.3	86.5	86.6	86.6	86.6	86.6	86.7	86.8
≥ 2000	44.4	79.3	82.0	85.0	86.9	87.4	88.2	88.5	88.6	88.8	88.9	88.9	89.0	89.0	89.0	89.1
≥ 1800	44.7	79.8	82.6	85.7	87.6	88.0	88.8	89.2	89.2	89.4	89.5	89.5	89.6	89.6	89.7	89.7
≥ 1500	45.2	81.5	84.4	87.6	89.5	90.0	90.9	91.3	91.3	91.5	91.6	91.6	91.7	91.7	91.8	91.9
≥ 1200	45.4	82.4	85.3	88.5	90.6	91.0	91.9	92.3	92.3	92.5	92.7	92.7	92.8	92.8	92.9	92.9
≥ 1000	45.6	83.2	86.2	89.5	91.5	92.0	93.0	93.4	93.4	93.6	93.8	93.8	93.9	93.9	94.0	94.0
≥ 900	45.7	83.5	86.6	89.9	91.9	92.4	93.4	93.8	93.8	94.1	94.2	94.2	94.3	94.3	94.4	94.4
≥ 800	45.8	83.9	87.0	90.4	92.5	93.1	94.1	94.5	94.5	94.7	94.8	94.8	94.9	94.9	95.0	95.1
≥ 700	45.9	84.2	87.4	90.9	93.1	93.6	94.6	95.0	95.0	95.3	95.4	95.4	95.5	95.5	95.6	95.7
≥ 600	45.9	84.4	87.7	91.3	93.6	94.1	95.2	95.6	95.6	95.9	96.0	96.0	96.1	96.1	96.2	96.3
≥ 500	46.0	84.7	88.1	91.7	94.1	94.7	95.8	96.3	96.3	96.6	96.7	96.7	96.8	96.8	96.9	97.0
≥ 400	46.0	84.8	88.3	92.0	94.4	95.1	96.4	96.9	97.0	97.3	97.5	97.5	97.6	97.6	97.7	97.8
≥ 300	46.0	84.9	88.4	92.2	94.7	95.4	96.8	97.4	97.5	97.9	98.1	98.2	98.3	98.3	98.4	98.5
≥ 200	46.0	84.9	88.4	92.2	94.7	95.4	96.9	97.6	97.7	98.1	98.4	98.5	98.7	98.7	98.8	98.9
≥ 100	46.0	84.9	88.4	92.2	94.7	95.4	96.9	97.6	97.7	98.2	98.5	98.7	98.9	99.1	99.5	99.7
≥ 0	46.0	84.9	88.4	92.2	94.7	95.4	96.9	97.6	97.7	98.2	98.6	98.7	98.9	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6335

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639D — STATION | PHELPS-COLLINS/ALPENA MI — STATION NAME | 73-81 — YEARS | JUL — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200 — HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	38.4	60.6	64.8	67.2	68.6	68.9	70.3	70.3	70.3	70.4	70.4	70.4	70.6	70.6	70.7	70.7
≥ 20000	39.0	63.5	67.8	70.2	71.6	71.9	73.3	73.3	73.3	73.4	73.4	73.4	73.5	73.5	73.7	73.7
≥ 18000	39.1	63.7	68.1	70.4	71.8	72.2	73.5	73.5	73.5	73.7	73.7	73.7	73.8	73.8	73.9	73.9
≥ 16000	39.1	63.7	68.1	70.4	71.8	72.2	73.5	73.5	73.5	73.7	73.7	73.7	73.8	73.8	73.9	73.9
≥ 14000	39.1	63.7	68.2	70.6	71.9	72.3	73.7	73.7	73.7	73.8	73.8	73.8	73.9	73.9	74.0	74.0
≥ 12000	39.6	64.3	68.8	71.2	72.7	73.2	74.5	74.5	74.5	74.7	74.7	74.7	74.8	74.8	74.9	74.9
≥ 10000	41.1	66.5	71.1	73.4	75.0	75.5	76.9	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.3	77.3
≥ 9000	41.2	66.7	71.3	73.7	75.3	75.8	77.1	77.1	77.1	77.3	77.3	77.3	77.4	77.4	77.5	77.5
≥ 8000	41.9	68.2	72.9	75.4	77.0	77.6	79.1	79.1	79.1	79.3	79.3	79.3	79.4	79.4	79.5	79.5
≥ 7000	42.0	68.6	73.4	76.1	77.8	78.4	79.9	79.9	79.9	80.0	80.0	80.0	80.1	80.1	80.2	80.2
≥ 6000	42.2	69.2	74.4	77.1	78.9	79.5	81.0	81.0	81.0	81.1	81.1	81.1	81.2	81.2	81.4	81.4
≥ 5000	43.4	71.2	76.8	79.8	81.6	82.2	83.9	83.9	83.9	84.0	84.0	84.0	84.1	84.1	84.2	84.2
≥ 4500	44.3	73.2	79.0	82.4	84.5	85.1	86.8	86.8	86.8	87.0	87.0	87.0	87.1	87.1	87.2	87.2
≥ 4000	44.7	73.9	79.8	83.1	85.2	85.8	87.6	87.6	87.6	87.7	87.7	87.7	87.8	87.8	88.0	88.0
≥ 3500	45.0	74.7	81.2	84.7	87.0	87.6	89.3	89.3	89.3	89.6	89.7	89.7	89.8	89.8	89.9	89.9
≥ 3000	45.6	75.1	82.5	86.2	88.6	89.2	90.9	90.9	90.9	91.2	91.3	91.3	91.4	91.4	91.6	91.6
≥ 2500	46.2	76.4	83.4	87.1	89.4	90.3	92.2	92.2	92.2	92.4	92.5	92.5	92.7	92.7	92.8	92.8
≥ 2000	46.2	76.4	83.5	87.2	89.6	90.6	92.4	92.4	92.4	92.7	92.8	92.8	92.9	92.9	93.0	93.0
≥ 1800	46.3	76.5	83.7	87.5	89.8	90.8	92.7	92.7	92.7	92.9	93.0	93.0	93.2	93.2	93.3	93.3
≥ 1500	46.5	77.0	84.3	88.1	90.4	91.6	93.5	93.5	93.5	93.8	93.9	93.9	94.0	94.0	94.2	94.2
≥ 1200	46.6	77.1	84.5	88.2	90.6	91.7	93.7	93.7	93.7	93.9	94.0	94.0	94.2	94.2	94.3	94.3
≥ 1000	46.8	77.4	84.8	88.8	91.3	92.4	94.5	94.5	94.5	94.8	94.9	94.9	95.0	95.0	95.2	95.2
≥ 900	47.0	77.5	85.0	88.9	91.4	92.5	94.7	94.7	94.7	94.9	95.0	95.0	95.2	95.2	95.3	95.3
≥ 800	47.0	77.8	85.2	89.2	91.7	92.8	94.9	94.9	94.9	95.2	95.3	95.3	95.4	95.4	95.5	95.5
≥ 700	47.0	78.1	85.7	89.7	92.2	93.4	95.5	95.5	95.5	95.8	95.9	95.9	96.0	96.0	96.1	96.1
≥ 600	47.0	78.1	85.7	89.7	92.2	93.4	95.7	95.8	95.8	96.0	96.1	96.1	96.3	96.3	96.4	96.4
≥ 500	47.0	78.1	85.8	89.8	92.3	93.5	95.9	96.4	96.4	96.6	96.8	96.8	96.9	96.9	97.0	97.0
≥ 400	47.0	78.1	85.8	89.9	92.4	93.8	96.1	96.6	96.6	96.9	97.0	97.0	97.1	97.1	97.3	97.3
≥ 300	47.0	78.1	85.8	89.9	92.4	93.8	96.4	97.0	97.0	97.3	97.4	97.4	97.5	97.5	97.6	97.6
≥ 200	47.0	78.1	85.8	89.9	92.4	93.8	96.4	97.0	97.0	97.4	97.5	97.5	97.8	97.8	97.9	97.9
> 100	47.0	78.1	85.8	89.9	92.4	93.8	96.4	97.0	97.0	97.5	97.9	97.9	98.3	98.3	98.6	98.8
≥ 0	47.0	78.1	85.8	89.9	92.4	93.8	96.4	97.0	97.0	97.5	97.9	97.9	98.3	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 805

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 (HOUR LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	34.2	52.0	56.2	59.2	62.1	62.6	64.3	64.7	64.7	65.4	66.0	66.1	66.4	66.4	66.7	67.4
≥ 20000	35.2	54.6	58.7	61.8	64.8	65.4	67.2	67.6	67.6	68.3	69.1	69.2	69.4	69.4	69.8	70.4
≥ 18000	35.2	54.6	58.7	61.8	64.8	65.4	67.2	67.6	67.6	68.3	69.1	69.2	69.4	69.4	69.8	70.4
≥ 16000	35.2	54.6	58.7	61.8	64.8	65.4	67.2	67.6	67.6	68.3	69.1	69.2	69.4	69.4	69.8	70.4
≥ 14000	35.2	54.6	58.7	61.8	64.8	65.4	67.2	67.6	67.6	68.3	69.1	69.2	69.4	69.4	69.8	70.4
≥ 12000	35.7	55.2	59.3	62.4	65.4	66.1	68.1	68.5	68.5	69.2	69.9	70.0	70.3	70.3	70.6	71.3
≥ 10000	36.7	57.2	61.4	64.7	67.7	68.5	70.4	70.8	70.8	71.5	72.2	72.4	72.6	72.6	73.0	73.6
≥ 9000	36.9	57.5	61.6	64.9	68.0	68.7	70.6	71.0	71.0	71.7	72.5	72.6	72.8	72.8	73.2	73.8
≥ 8000	38.1	59.7	63.8	67.4	70.4	71.1	73.1	73.4	73.4	74.3	75.0	75.2	75.4	75.4	75.8	76.5
≥ 7000	38.7	60.9	65.2	68.7	71.7	72.5	74.4	74.8	74.8	75.6	76.4	76.5	76.7	76.7	77.1	77.8
≥ 6000	38.9	61.4	65.7	69.2	72.4	73.1	75.0	75.4	75.4	76.2	77.0	77.1	77.3	77.3	77.7	78.4
≥ 5000	39.5	63.1	67.7	71.4	74.5	75.3	77.3	77.7	77.7	78.6	79.3	79.4	79.7	79.7	80.0	80.8
≥ 4500	40.6	64.8	69.4	73.6	76.7	77.5	79.7	80.0	80.0	80.9	81.6	81.7	82.0	82.0	82.3	83.1
≥ 4000	41.0	66.0	70.6	74.9	78.1	78.8	81.0	81.4	81.4	82.2	82.9	83.1	83.3	83.3	83.7	84.4
≥ 3500	41.5	67.4	72.1	76.5	79.7	80.4	82.7	83.2	83.2	84.0	84.8	84.9	85.1	85.1	85.5	86.2
≥ 3000	41.8	68.3	73.2	77.8	81.1	81.9	84.4	84.9	84.9	85.7	86.6	86.7	87.0	87.0	87.3	88.1
≥ 2500	41.8	68.7	73.6	78.3	81.7	82.5	85.1	85.6	85.6	86.5	87.3	87.5	87.7	87.7	88.1	88.8
≥ 2000	42.3	69.4	74.3	79.3	82.7	83.6	86.4	86.8	86.8	87.7	88.6	88.7	88.9	88.9	89.3	90.0
≥ 1800	42.3	69.7	74.7	79.8	83.2	84.0	86.8	87.3	87.3	88.2	89.0	89.2	89.4	89.4	89.8	90.5
≥ 1500	42.6	70.4	75.5	80.6	84.0	84.9	87.8	88.3	88.3	89.2	90.0	90.1	90.4	90.4	90.7	91.5
≥ 1200	42.8	70.8	76.0	81.1	84.5	85.4	88.3	88.8	88.8	89.6	90.5	90.6	90.9	90.9	91.2	92.0
≥ 1000	42.9	71.1	76.4	81.5	84.9	85.7	88.8	89.3	89.3	90.1	91.0	91.1	91.4	91.4	91.7	92.4
≥ 900	42.9	71.3	76.5	81.6	85.1	86.0	89.0	89.5	89.5	90.4	91.2	91.4	91.6	91.6	92.0	92.7
≥ 800	43.2	71.9	77.1	82.3	85.9	86.7	89.9	90.4	90.4	91.2	92.1	92.2	92.4	92.4	92.8	93.5
≥ 700	43.4	72.2	77.6	83.1	86.8	87.7	90.9	91.5	91.5	92.3	93.4	93.5	93.8	93.8	94.2	94.9
≥ 600	43.4	72.2	77.7	83.2	87.1	87.9	91.1	91.7	91.7	92.6	93.7	93.8	94.0	94.0	94.4	95.1
≥ 500	43.4	72.4	77.8	83.4	87.3	88.2	91.5	92.3	92.3	93.2	94.3	94.4	94.6	94.6	95.0	95.7
≥ 400	43.4	72.6	78.1	83.8	87.8	88.7	92.2	93.1	93.1	94.2	95.2	95.4	95.6	95.6	96.0	96.7
≥ 300	43.4	72.6	78.1	83.9	87.9	88.8	92.3	93.5	93.5	95.0	96.1	96.2	96.5	96.5	96.8	97.6
≥ 200	43.4	72.6	78.1	83.9	88.2	89.0	92.7	93.9	93.9	95.4	96.5	96.6	97.0	97.0	97.4	98.2
≥ 100	43.4	72.6	78.1	83.9	88.2	89.0	92.7	93.9	93.9	95.4	96.5	96.7	97.1	97.1	98.2	99.1
≥ 0	43.4	72.6	78.1	83.9	88.2	89.0	92.7	93.9	93.9	95.4	96.5	96.7	97.1	97.1	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	28.2	46.9	50.2	52.8	54.6	56.1	57.1	57.9	58.0	58.5	59.0	59.0	59.0	59.0	59.2	59.5
≥ 20000	29.5	49.4	53.0	55.8	57.7	59.3	60.4	61.4	61.5	62.1	62.6	62.6	62.6	62.6	62.7	63.1
≥ 18000	29.5	49.4	53.0	55.8	57.7	59.3	60.4	61.4	61.5	62.1	62.6	62.6	62.6	62.6	62.7	63.1
≥ 16000	29.5	49.4	53.0	55.8	57.7	59.3	60.4	61.4	61.5	62.1	62.6	62.6	62.6	62.6	62.7	63.1
≥ 14000	29.7	49.6	53.2	56.1	57.9	59.7	60.8	61.8	61.9	62.5	63.0	63.0	63.0	63.0	63.1	63.5
≥ 12000	30.2	50.5	54.1	56.9	58.8	60.5	61.6	62.6	62.7	63.4	63.9	63.9	63.9	63.9	64.0	64.4
≥ 10000	30.9	53.6	57.7	60.5	62.5	64.2	65.5	66.6	66.7	67.5	67.9	67.9	67.9	67.9	68.1	68.4
≥ 9000	31.1	54.0	58.0	60.9	62.9	64.6	65.8	67.0	67.1	67.8	68.3	68.3	68.3	68.3	68.4	68.8
≥ 8000	33.2	57.5	61.8	65.0	67.2	68.9	70.2	71.5	71.7	72.4	73.1	73.1	73.1	73.1	73.3	73.6
≥ 7000	34.5	59.7	64.1	67.3	69.6	71.3	72.5	73.9	74.0	74.8	75.5	75.5	75.5	75.5	75.6	76.0
≥ 6000	34.8	60.5	65.0	68.2	70.4	72.2	73.5	74.9	75.0	75.7	76.5	76.5	76.5	76.5	76.6	77.0
≥ 5000	36.0	62.9	67.5	70.9	73.3	75.0	76.4	77.7	77.8	78.7	79.5	79.5	79.5	79.5	79.6	80.0
≥ 4500	36.5	64.2	68.8	72.6	75.2	77.4	78.8	80.2	80.3	81.3	82.1	82.1	82.1	82.1	82.2	82.5
≥ 4000	37.0	64.9	69.6	73.4	76.1	78.2	79.7	81.1	81.2	82.2	82.9	82.9	82.9	82.9	83.0	83.4
≥ 3500	37.4	65.8	70.7	74.5	77.2	79.3	80.9	82.3	82.4	83.4	84.2	84.2	84.2	84.2	84.3	84.7
≥ 3000	37.6	66.7	71.7	75.9	78.6	80.7	82.3	83.7	83.8	84.8	85.5	85.5	85.5	85.5	85.6	86.0
≥ 2500	38.1	67.3	72.8	77.0	79.8	81.9	83.5	84.9	85.0	86.1	87.0	87.0	87.0	87.0	87.1	87.5
≥ 2000	38.4	67.8	73.3	77.5	80.4	82.5	84.3	85.6	85.8	86.9	87.7	87.7	87.7	87.7	87.9	88.2
≥ 1800	38.6	68.7	74.1	78.3	81.3	83.4	85.3	86.8	86.9	88.0	88.9	88.9	88.9	88.9	89.0	89.4
≥ 1500	38.9	69.2	74.8	79.0	81.9	84.0	86.0	87.6	87.7	88.9	89.7	89.7	89.7	89.7	89.9	90.2
≥ 1200	39.4	69.9	75.5	80.0	82.9	85.1	87.4	89.2	89.4	90.5	91.3	91.3	91.3	91.3	91.5	91.8
≥ 1000	39.9	70.4	76.2	80.8	83.9	86.1	88.7	90.6	90.7	91.8	92.7	92.7	92.7	92.7	92.8	93.2
≥ 900	40.2	70.8	76.6	81.2	84.3	86.5	89.1	91.0	91.1	92.2	93.1	93.1	93.1	93.1	93.2	93.6
≥ 800	40.5	71.0	77.0	81.6	84.8	87.0	89.6	91.5	91.6	92.7	93.6	93.6	93.6	93.6	93.7	94.1
≥ 700	40.5	71.2	77.1	81.8	85.1	87.5	90.3	92.5	92.6	93.7	94.6	94.6	94.6	94.6	94.7	95.0
≥ 600	40.5	71.4	77.4	82.1	85.4	87.7	90.7	92.8	92.9	94.1	94.9	94.9	94.9	94.9	95.0	95.4
≥ 500	40.6	71.7	77.6	82.4	86.0	88.4	91.3	93.7	93.8	94.9	95.8	95.8	95.8	95.8	95.9	96.3
≥ 400	40.6	71.9	77.8	82.8	86.5	89.0	92.1	94.6	94.7	96.0	96.9	96.9	96.9	96.9	97.0	97.4
≥ 300	40.6	72.0	78.0	82.9	86.6	89.2	92.3	94.9	95.0	96.5	97.4	97.4	97.4	97.4	97.5	97.9
≥ 200	40.6	72.0	78.0	83.0	86.8	89.4	92.5	95.0	95.2	96.9	98.0	98.0	98.0	98.0	98.1	98.5
≥ 100	40.6	72.0	78.0	83.0	86.8	89.4	92.5	95.0	95.2	96.9	98.1	98.1	98.4	98.4	98.8	99.5
≥ 0	40.6	72.0	78.0	83.0	86.8	89.4	92.5	95.0	95.2	96.9	98.1	98.1	98.4	98.4	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 808

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100 (HOUR (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0	0
NO CEILING	55.9	56.1	57.2	58.4	59.6	59.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 20000	58.1	60.3	61.4	62.8	64.0	64.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 18000	58.1	60.3	61.4	62.8	64.0	64.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000	58.1	60.3	61.4	62.8	64.0	64.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000	58.6	60.8	61.9	63.3	64.5	64.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000	60.0	63.1	64.4	65.7	67.0	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 10000	60.9	65.7	67.2	68.8	70.3	70.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000	61.4	66.1	67.6	69.2	70.7	70.8	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 8000	62.4	67.9	69.5	71.3	72.7	73.0	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 7000	63.5	70.0	71.6	73.6	75.2	75.5	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 6000	64.1	70.8	72.4	74.8	76.4	76.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 5000	65.3	72.9	74.5	77.1	78.8	79.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 4500	66.0	74.5	76.1	78.8	80.6	80.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 4000	66.2	75.4	76.9	79.7	81.5	81.8	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	66.7	76.1	78.1	80.9	82.9	83.1	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 3000	67.3	77.3	79.3	82.4	84.3	84.6	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 2500	68.0	78.2	80.1	83.2	85.2	85.5	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2000	68.5	78.8	80.8	83.8	85.9	86.2	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1800	68.8	79.0	81.0	84.2	86.4	86.7	87.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1500	69.4	80.6	82.6	86.2	88.7	88.9	90.1	90.5	90.5	90.6	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1200	80.4	82.2	84.3	88.2	90.9	91.1	92.4	92.7	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1000	80.9	83.0	85.2	89.3	92.1	92.4	93.6	94.1	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3
≥ 900	81.2	83.2	85.6	89.6	92.6	92.8	94.1	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8
≥ 800	81.3	83.7	86.1	90.1	93.1	93.3	94.6	95.1	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700	81.5	83.8	86.2	90.2	93.2	93.5	94.7	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4
≥ 600	81.5	84.3	86.8	91.0	94.1	94.3	95.8	96.3	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	81.5	84.6	87.1	91.2	94.7	94.9	96.4	97.2	97.3	97.5	97.7	97.7	97.7	97.7	97.7	97.7
≥ 400	81.5	84.6	87.1	91.2	95.1	95.4	97.0	97.9	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300	81.5	84.8	87.4	91.7	95.8	96.2	97.8	98.6	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	81.5	84.8	87.4	91.7	95.9	96.3	97.9	98.9	99.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	81.5	84.8	87.4	91.7	95.9	96.3	97.9	98.9	99.1	99.5	99.8	99.8	99.8	99.9	99.9	100.0
0	81.5	84.8	87.4	91.7	95.9	96.3	97.9	98.9	99.1	99.5	99.8	99.8	99.8	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 811

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

72639 PHELPS-COLLINS/ALPENA MI 73-81

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	0
NO CEILING	40.5	54.9	56.0	57.1	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	43.3	61.2	62.3	64.2	65.8	65.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 18000	43.3	61.2	62.3	64.2	65.8	65.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 16000	43.3	61.2	62.3	64.2	65.8	65.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 14000	43.4	61.6	62.7	64.5	66.1	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 12000	44.7	63.1	64.2	66.0	67.6	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 10000	46.8	66.1	67.2	69.1	70.9	71.0	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 9000	47.3	66.7	67.8	69.7	71.5	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 8000	48.8	68.7	69.9	71.9	74.0	74.1	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 7000	49.1	69.9	71.5	73.2	75.5	75.4	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 6000	49.4	70.7	72.1	74.1	76.2	76.3	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 5000	50.2	71.9	73.5	75.6	77.8	77.9	78.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500	51.6	73.8	75.7	78.2	80.6	80.7	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 4000	52.0	74.4	76.4	79.0	81.8	81.9	82.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 3500	52.1	75.1	77.3	79.8	82.6	82.8	83.1	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 3000	53.3	77.5	79.8	82.4	85.3	85.5	85.8	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 2500	54.8	80.1	82.4	85.2	88.4	88.5	88.9	89.4	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2000	55.6	81.5	83.9	86.8	90.0	90.1	90.5	91.2	91.2	91.6	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1800	55.9	82.0	84.6	87.9	91.1	91.2	91.7	92.4	92.4	92.8	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500	56.4	83.1	85.8	89.5	93.0	93.2	93.8	94.5	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	56.5	83.5	86.3	90.1	93.8	93.9	94.5	95.2	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000	56.7	83.7	86.7	90.5	94.1	94.4	95.1	95.8	95.8	96.2	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900	56.8	83.9	86.8	90.7	94.4	94.6	95.5	96.2	96.2	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800	57.0	84.1	87.0	91.0	94.6	94.9	96.0	96.7	96.7	97.1	97.2	97.2	97.2	97.2	97.2	97.2
≥ 700	57.0	84.1	87.0	91.0	94.7	95.0	96.2	96.9	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600	57.0	84.6	87.5	91.4	95.4	95.6	96.8	97.7	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2
≥ 500	57.1	84.7	87.8	91.9	96.0	96.2	97.6	98.4	98.4	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	57.1	85.0	88.0	92.2	96.5	96.7	98.3	99.3	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	57.1	85.0	88.0	92.2	96.5	96.7	98.3	99.3	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	57.1	85.0	88.0	92.2	96.5	96.7	98.3	99.3	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	57.1	85.0	88.0	92.2	96.5	96.7	98.3	99.3	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	57.1	85.0	88.0	92.2	96.5	96.7	98.3	99.3	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 818

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72654 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 (HOUR (L.T.))

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥½	≥¼	≥0	≥0	≥0
NO CEILING	41.4	56.5	58.0	59.0	59.7	59.7	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	45.1	63.1	64.8	66.1	67.0	67.1	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 18000	45.1	63.1	64.8	66.1	67.0	67.1	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 16000	45.1	63.1	64.8	66.1	67.0	67.1	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 14000	45.2	63.2	64.9	66.3	67.1	67.2	67.8	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 12000	46.4	64.9	66.7	68.2	69.2	69.3	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 10000	48.5	67.8	69.8	71.4	72.4	72.5	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 9000	48.5	67.8	69.8	71.4	72.4	72.5	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 8000	49.7	69.5	71.7	73.3	74.3	74.4	75.0	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000	50.2	70.6	73.0	74.5	75.6	75.8	76.4	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 6000	50.5	71.5	73.8	75.4	76.5	76.6	77.3	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 5000	51.9	73.3	75.6	77.3	78.6	78.8	79.5	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4500	53.1	76.0	78.4	80.4	81.7	82.0	82.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000	53.6	77.1	79.5	81.5	83.3	83.6	84.4	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	54.4	78.6	81.2	83.2	85.0	85.3	86.2	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000	56.0	80.9	83.9	86.4	87.8	88.1	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	57.7	82.9	86.1	88.3	90.4	90.6	92.0	92.1	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3
≥ 2000	58.2	83.7	87.1	89.3	91.8	92.1	93.5	93.8	93.8	93.9	93.9	93.9	94.0	94.0	94.0	94.0
≥ 1800	58.3	83.8	87.2	89.5	92.3	92.6	94.0	94.3	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5
≥ 1500	58.3	84.0	87.5	89.9	92.8	93.2	94.6	94.9	94.9	95.0	95.0	95.0	95.1	95.1	95.1	95.1
≥ 1200	58.6	84.8	88.4	90.9	93.9	94.3	95.7	96.0	96.0	96.1	96.1	96.1	96.2	96.2	96.2	96.2
≥ 1000	58.6	84.9	88.9	91.4	94.4	95.8	96.6	96.8	96.8	97.1	97.1	97.1	97.2	97.2	97.2	97.2
≥ 900	58.6	84.9	88.9	91.4	94.4	95.0	96.7	97.1	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4
≥ 800	58.6	84.9	88.9	91.5	94.5	95.1	97.0	97.3	97.3	97.7	97.7	97.7	97.9	97.9	97.9	97.9
≥ 700	58.6	85.4	89.4	92.0	95.0	95.6	97.4	97.8	97.8	98.2	98.2	98.2	98.4	98.4	98.4	98.4
≥ 600	58.6	85.4	89.4	92.2	95.2	95.9	97.8	98.2	98.2	98.5	98.5	98.5	98.8	98.8	98.8	98.8
≥ 500	58.6	85.5	89.5	92.8	95.9	96.5	98.4	98.8	98.8	99.4	99.4	99.4	99.6	99.6	99.6	99.6
≥ 400	58.6	85.5	89.5	92.9	96.0	96.6	98.5	98.9	98.9	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 300	58.6	85.5	89.5	92.9	96.0	96.6	98.5	98.9	98.9	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 200	58.6	85.5	89.5	92.9	96.0	96.6	98.5	98.9	98.9	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 100	58.6	85.5	89.5	92.9	96.0	96.6	98.5	98.9	98.9	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 0	58.6	85.6	89.5	92.9	96.4	96.6	98.5	98.9	98.9	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS (LST))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	40.1	56.5	58.3	59.5	59.6	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 20000	45.1	64.2	66.0	67.9	68.5	68.5	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000	45.1	64.2	66.0	67.9	68.5	68.5	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000	45.1	64.2	66.0	67.9	68.5	68.5	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 14000	45.2	64.4	66.3	68.1	68.8	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 12000	46.2	65.7	67.7	69.8	70.4	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 10000	48.0	68.8	71.1	73.3	74.0	74.0	74.3	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.8
≥ 9000	48.1	68.9	71.2	73.5	74.1	74.1	74.4	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.9
≥ 8000	50.1	71.2	73.8	76.4	77.2	77.2	77.5	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.0
≥ 7000	50.5	71.9	74.7	77.3	78.0	78.0	78.4	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.9
≥ 6000	51.2	73.0	76.0	78.8	79.8	79.9	80.2	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.7
≥ 5000	52.3	74.9	78.3	81.0	82.2	82.6	83.0	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.5
≥ 4500	52.6	76.2	79.5	82.7	84.0	84.3	84.7	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.2
≥ 4000	53.5	77.5	81.0	84.3	85.8	86.2	86.5	87.2	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.5
≥ 3500	54.6	79.8	83.6	87.2	88.8	89.3	89.6	90.2	90.2	90.4	90.5	90.5	90.5	90.5	90.5	90.6
≥ 3000	55.6	81.6	85.9	89.5	91.2	91.7	92.1	92.7	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.1
≥ 2500	55.9	82.2	86.5	90.5	92.2	92.8	93.5	94.1	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.4
≥ 2000	56.4	83.2	87.7	91.6	93.3	94.0	94.4	95.3	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.7
≥ 1800	56.4	83.3	87.8	92.0	93.7	94.3	94.8	95.7	95.7	95.8	95.9	95.9	95.9	95.9	95.9	96.0
≥ 1500	56.9	84.2	88.8	93.0	94.7	95.3	95.8	96.7	96.7	96.8	96.9	96.9	96.9	96.9	96.9	97.0
≥ 1200	56.9	84.3	88.9	93.1	94.8	95.4	95.9	96.8	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.2
≥ 1000	56.9	84.3	89.0	93.3	95.1	95.7	96.2	97.0	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.4
≥ 900	56.9	84.3	89.0	93.6	95.3	95.9	96.5	97.4	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.8
≥ 800	56.9	84.3	89.0	93.7	95.4	96.0	96.7	97.5	97.5	97.7	97.8	97.8	97.9	97.9	97.9	98.0
≥ 700	56.9	84.4	89.1	93.8	95.7	96.3	96.9	97.8	97.8	97.9	98.0	98.0	98.1	98.1	98.1	98.3
≥ 600	56.9	84.4	89.3	94.1	95.9	96.5	97.2	98.0	98.0	98.1	98.3	98.3	98.4	98.4	98.4	98.5
≥ 500	57.0	84.6	89.4	94.5	96.2	96.8	97.4	98.4	98.4	98.5	98.6	98.6	98.8	98.8	98.8	98.9
≥ 400	57.0	84.6	89.5	94.7	96.8	97.4	98.0	99.0	99.0	99.4	99.5	99.5	99.6	99.6	99.6	99.8
≥ 300	57.0	84.6	89.5	94.7	96.8	97.4	98.0	99.0	99.0	99.4	99.5	99.5	99.6	99.6	99.6	99.8
≥ 200	57.0	84.6	89.5	94.7	96.8	97.4	98.0	99.1	99.1	99.5	99.6	99.6	99.8	99.8	99.8	99.9
≥ 100	57.0	84.6	89.5	94.7	96.8	97.4	98.0	99.1	99.1	99.5	99.6	99.6	99.8	99.8	99.8	99.9
≥ 0	57.0	84.6	89.5	94.7	96.8	97.4	98.0	99.1	99.1	99.5	99.6	99.6	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	40.0	61.0	65.4	65.6	66.7	67.1	67.4	67.6	67.6	68.0	68.2	68.2	68.3	68.3	68.4	68.4
≥ 20000	42.6	65.4	67.8	70.2	72.2	72.4	72.9	73.3	73.3	73.8	73.9	73.9	74.0	74.0	74.1	74.1
≥ 18000	42.6	65.5	67.9	70.4	72.3	72.7	73.0	73.4	73.4	73.9	74.0	74.0	74.1	74.1	74.3	74.3
≥ 16000	42.6	65.5	67.9	70.4	72.3	72.7	73.0	73.4	73.4	73.9	74.0	74.0	74.1	74.1	74.3	74.3
≥ 14000	42.6	65.6	68.0	70.5	72.4	72.[illegible]	73.2	73.5	73.5	74.0	74.1	74.1	74.3	74.3	74.4	74.4
≥ 12000	43.7	66.8	69.3	71.8	73.9	74.3	74.6	75.0	75.0	75.5	75.6	75.6	75.7	75.7	75.9	75.9
≥ 10000	45.5	69.6	72.2	75.2	77.4	77.8	78.7	79.0	79.0	79.5	79.6	79.6	79.8	79.8	79.9	79.9
≥ 9000	45.7	69.9	72.4	75.5	77.7	78.0	78.9	79.3	79.3	79.8	79.9	79.9	80.0	80.0	80.1	80.1
≥ 8000	46.6	71.2	73.9	77.7	80.0	80.4	81.2	81.6	81.6	82.1	82.2	82.2	82.3	82.3	82.4	82.4
≥ 7000	47.0	71.7	74.5	78.3	80.7	81.1	82.1	82.4	82.4	82.9	83.0	83.0	83.2	83.2	83.3	83.3
≥ 6000	47.4	72.6	75.4	79.3	82.1	82.4	83.4	83.9	83.9	84.4	84.5	84.5	84.6	84.6	84.8	84.8
≥ 5000	48.4	74.1	77.1	81.0	84.0	84.4	85.4	85.9	85.9	86.3	86.5	86.5	86.6	86.6	86.7	86.7
≥ 4500	49.4	75.9	79.0	82.9	86.0	86.3	87.3	87.8	87.8	88.3	88.4	88.4	88.5	88.5	88.7	88.7
≥ 4000	49.9	76.3	79.9	83.8	87.0	87.3	88.3	88.9	88.9	89.4	89.5	89.5	89.6	89.6	89.8	89.8
≥ 3500	50.2	77.0	80.5	84.5	87.7	88.0	89.1	89.8	89.8	90.2	90.4	90.4	90.5	90.5	90.6	90.6
≥ 3000	50.5	77.3	81.2	85.4	88.9	89.6	90.9	91.5	91.5	92.0	92.1	92.1	92.2	92.2	92.3	92.3
≥ 2500	51.2	78.3	82.4	86.6	90.1	90.9	92.1	92.7	92.7	93.2	93.3	93.3	93.4	93.4	93.5	93.5
≥ 2000	51.8	78.8	83.2	87.4	91.1	91.8	93.3	93.9	93.9	94.4	94.5	94.5	94.6	94.6	94.8	94.8
≥ 1800	51.8	79.0	83.4	87.7	91.5	92.2	93.7	94.3	94.3	94.8	94.9	94.9	95.0	95.0	95.1	95.1
≥ 1500	52.3	79.5	84.0	88.3	92.2	92.9	94.4	95.0	95.0	95.5	95.6	95.6	95.7	95.7	95.9	95.9
≥ 1200	52.6	80.0	84.5	88.8	92.7	93.4	94.9	95.5	95.5	96.0	96.1	96.1	96.2	96.2	96.3	96.3
≥ 1000	52.6	80.1	84.6	88.9	92.8	93.5	95.0	95.6	95.6	96.1	96.2	96.2	96.3	96.3	96.5	96.5
≥ 900	52.6	80.2	84.8	89.0	92.9	93.7	95.1	95.7	95.7	96.2	96.3	96.3	96.5	96.5	96.6	96.6
≥ 800	52.6	80.4	84.9	89.1	93.0	93.8	95.2	95.9	95.9	96.3	96.5	96.5	96.6	96.6	96.7	96.7
≥ 700	52.6	80.4	84.9	89.1	93.0	93.8	95.2	95.9	95.9	96.3	96.5	96.5	96.6	96.6	96.7	96.7
≥ 600	52.6	80.4	84.9	89.1	93.2	93.9	95.4	96.0	96.0	96.5	96.6	96.6	96.7	96.7	96.8	96.8
≥ 500	52.6	80.4	85.1	89.4	93.7	94.4	96.2	97.0	97.0	97.4	97.6	97.6	97.7	97.7	97.8	97.8
≥ 400	52.6	80.4	85.1	89.5	94.0	94.8	96.6	97.4	97.4	97.9	98.0	98.0	98.2	98.2	98.3	98.3
≥ 300	52.6	80.4	85.1	89.5	94.1	94.9	96.8	97.8	97.8	98.4	98.7	98.7	98.8	98.8	98.9	98.9
≥ 200	52.6	80.4	85.2	89.6	94.3	95.0	97.0	98.0	98.0	98.7	98.9	98.9	99.0	99.0	99.1	99.1
≥ 100	52.6	80.4	85.2	89.6	94.3	95.0	97.0	98.0	98.0	98.7	98.9	98.9	99.3	99.3	99.8	99.9
≥ 0	52.6	80.4	85.2	89.6	94.3	95.0	97.1	98.2	98.2	98.8	99.0	99.0	99.4	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 820

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	37.4	55.6	58.0	59.9	61.1	61.5	62.2	62.4	62.4	62.6	62.8	62.8	62.9	62.9	63.0	63.1
≥ 20000	39.7	60.2	62.7	64.9	66.4	66.9	67.6	67.9	67.9	68.2	68.3	68.3	68.4	68.4	68.5	68.6
≥ 18000	39.7	60.3	62.8	64.9	66.5	66.9	67.7	67.9	67.9	68.2	68.4	68.4	68.5	68.5	68.5	68.7
≥ 16000	39.7	60.3	62.8	64.9	66.5	66.9	67.7	67.9	67.9	68.2	68.4	68.4	68.5	68.5	68.5	68.7
≥ 14000	39.9	60.5	63.0	65.1	66.7	67.1	67.9	68.2	68.2	68.4	68.6	68.6	68.7	68.7	68.8	68.9
≥ 12000	40.8	61.7	64.3	66.5	68.1	68.6	69.4	69.6	69.6	69.9	70.1	70.1	70.1	70.1	70.2	70.4
≥ 10000	42.3	64.4	67.2	69.6	71.3	71.7	72.7	72.9	72.9	73.2	73.4	73.4	73.5	73.5	73.6	73.7
≥ 9000	42.5	64.7	67.5	69.8	71.6	72.0	72.9	73.2	73.2	73.5	73.7	73.7	73.8	73.8	73.9	74.0
≥ 8000	43.9	66.8	69.7	72.3	74.1	74.6	75.5	75.9	75.9	76.2	76.4	76.4	76.5	76.5	76.6	76.7
≥ 7000	44.5	67.9	71.0	73.6	75.5	76.0	76.9	77.3	77.3	77.6	77.8	77.8	77.9	77.9	78.0	78.2
≥ 6000	44.8	68.7	71.8	74.6	76.6	77.1	78.1	78.5	78.5	78.8	79.0	79.0	79.1	79.1	79.2	79.4
≥ 5000	45.9	70.5	73.9	76.8	78.8	79.4	80.5	80.9	80.9	81.2	81.4	81.4	81.5	81.5	81.6	81.7
≥ 4500	46.8	72.3	75.7	79.0	81.2	81.8	82.9	83.3	83.3	83.7	83.9	83.9	83.9	83.9	84.0	84.2
≥ 4000	47.3	73.2	76.7	80.0	82.3	82.9	84.1	84.6	84.6	84.9	85.1	85.2	85.2	85.2	85.3	85.5
≥ 3500	47.8	74.3	78.1	81.4	83.9	84.5	85.7	86.2	86.2	86.6	86.8	86.8	86.9	86.9	87.0	87.1
≥ 3000	48.5	75.7	79.7	83.2	85.7	86.4	87.7	88.2	88.2	88.5	88.8	88.8	88.9	88.9	89.0	89.1
≥ 2500	49.2	76.8	80.9	84.5	87.2	87.9	89.2	89.7	89.7	90.1	90.4	90.4	90.5	90.5	90.6	90.8
≥ 2000	49.7	77.5	81.7	85.4	88.1	88.9	90.3	90.9	90.9	91.3	91.6	91.6	91.7	91.7	91.8	91.9
≥ 1800	49.8	77.8	82.1	85.9	88.7	89.4	90.9	91.5	91.5	91.9	92.2	92.2	92.3	92.3	92.4	92.5
≥ 1500	50.2	78.5	82.9	86.8	89.7	90.5	92.0	92.6	92.6	93.1	93.4	93.4	93.5	93.5	93.6	93.7
≥ 1200	50.5	79.1	83.6	87.5	90.5	91.3	92.8	93.5	93.5	93.9	94.2	94.2	94.3	94.3	94.4	94.6
≥ 1000	50.7	79.4	84.0	88.1	91.1	91.9	93.6	94.2	94.2	94.7	95.0	95.0	95.1	95.1	95.2	95.3
≥ 900	50.8	79.5	84.1	88.3	91.3	92.1	93.8	94.5	94.5	95.0	95.3	95.3	95.4	95.4	95.5	95.6
≥ 800	50.9	79.8	84.4	88.6	91.6	92.5	94.2	94.9	94.9	95.4	95.7	95.7	95.8	95.8	95.9	96.0
≥ 700	50.9	80.0	84.6	88.8	92.0	92.8	94.7	95.4	95.4	95.9	96.2	96.2	96.3	96.3	96.4	96.5
≥ 600	50.9	80.1	84.8	89.1	92.3	93.2	95.1	95.8	95.8	96.3	96.6	96.6	96.7	96.7	96.8	97.0
≥ 500	51.0	80.2	85.0	89.4	92.8	93.6	95.6	96.5	96.5	97.1	97.4	97.4	97.5	97.5	97.6	97.7
≥ 400	51.0	80.3	85.1	89.6	93.1	94.0	96.1	97.1	97.1	97.8	98.1	98.1	98.2	98.2	98.3	98.5
≥ 300	51.0	80.4	85.2	89.7	93.3	94.2	96.3	97.4	97.4	98.2	98.5	98.5	98.6	98.6	98.7	98.9
≥ 200	51.0	80.4	85.2	89.8	93.4	94.3	96.4	97.5	97.6	98.4	98.7	98.8	98.9	98.9	99.0	99.2
≥ 100	51.0	80.4	85.2	89.8	93.4	94.3	96.4	97.5	97.6	98.4	98.8	98.8	99.1	99.1	99.4	99.6
≥ 0	51.0	80.4	85.2	89.8	93.4	94.3	96.4	97.5	97.6	98.4	98.8	98.8	99.1	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6514

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	34.8	54.2	56.1	58.5	60.9	61.0	61.4	62.0	62.0	62.6	62.6	62.6	63.0	63.0	63.1	63.6
≥ 20000	35.9	56.8	58.8	61.5	64.4	64.5	65.2	66.0	66.0	66.7	66.7	66.7	67.1	67.1	67.2	67.7
≥ 18000	35.9	56.8	58.8	61.5	64.4	64.5	65.2	66.0	66.0	66.7	66.7	66.7	67.1	67.1	67.2	67.7
≥ 16000	35.9	56.8	58.8	61.5	64.4	64.5	65.2	66.0	66.0	66.7	66.7	66.7	67.1	67.1	67.2	67.7
≥ 14000	35.9	56.9	59.0	61.8	64.6	64.7	65.5	66.2	66.2	67.0	67.0	67.0	67.3	67.3	67.5	67.9
≥ 12000	36.0	57.5	59.7	62.4	65.3	65.5	66.2	67.0	67.0	67.7	67.7	67.7	68.1	68.1	68.2	68.7
≥ 10000	36.9	59.0	61.6	64.6	67.7	67.8	68.6	69.3	69.3	70.0	70.0	70.0	70.4	70.4	70.5	71.0
≥ 9000	37.5	59.5	62.5	65.5	68.6	68.7	69.4	70.2	70.2	70.9	70.9	70.9	71.3	71.3	71.4	71.9
≥ 8000	37.6	60.1	63.2	66.2	69.3	69.4	70.2	70.9	70.9	71.7	71.7	71.7	72.0	72.0	72.2	72.6
≥ 7000	38.0	60.9	64.0	67.0	70.0	70.3	71.0	71.8	71.8	72.5	72.5	72.5	72.9	72.9	73.0	73.5
≥ 6000	38.2	61.6	64.7	67.7	70.8	71.0	71.8	72.5	72.5	73.3	73.3	73.3	73.6	73.6	73.8	74.3
≥ 5000	38.6	62.6	65.8	69.1	72.3	72.5	73.3	74.0	74.0	74.8	74.8	74.8	75.1	75.1	75.2	75.7
≥ 4500	39.4	63.6	66.8	70.2	73.5	73.8	74.5	75.2	75.2	76.0	76.0	76.0	76.4	76.4	76.5	77.0
≥ 4000	39.9	64.4	67.7	71.0	74.4	74.6	75.5	76.2	76.2	77.0	77.0	77.0	77.4	77.4	77.5	78.0
≥ 3500	41.0	66.3	69.9	73.5	77.1	77.4	78.3	79.1	79.1	79.8	79.8	79.8	80.2	80.2	80.3	80.8
≥ 3000	42.2	67.8	71.5	75.1	78.8	79.2	80.6	81.3	81.3	82.1	82.1	82.1	82.4	82.4	82.5	83.0
≥ 2500	43.1	69.8	73.8	77.6	81.3	81.7	83.0	83.8	83.8	84.5	84.5	84.5	84.9	84.9	85.0	85.5
≥ 2000	43.9	72.2	76.2	80.2	83.9	84.3	86.1	86.9	86.9	87.9	87.9	87.9	88.2	88.2	88.4	88.9
≥ 1800	44.1	72.5	76.5	80.4	84.2	84.7	86.5	87.3	87.3	88.2	88.2	88.2	88.6	88.6	88.7	89.2
≥ 1500	44.3	73.1	77.6	81.8	85.6	86.1	88.2	89.1	89.1	90.1	90.1	90.1	90.5	90.5	90.7	91.2
≥ 1200	44.7	73.8	78.3	82.5	86.4	86.9	89.0	89.9	89.9	91.0	91.0	91.0	91.3	91.3	91.6	92.1
≥ 1000	44.8	74.1	78.7	83.0	86.9	87.4	89.6	90.5	90.5	91.6	91.6	91.6	92.0	92.0	92.2	92.7
≥ 900	44.8	74.3	79.0	83.3	87.1	87.6	90.0	90.8	90.8	92.0	92.0	92.0	92.3	92.3	92.6	93.1
≥ 800	44.9	74.6	79.3	83.7	87.6	88.1	90.7	91.6	91.6	92.7	92.7	92.7	93.1	93.1	93.3	93.8
≥ 700	45.3	75.0	79.7	84.0	88.1	88.6	91.2	92.2	92.2	93.3	93.3	93.3	93.8	93.8	94.1	94.6
≥ 600	45.3	75.4	80.1	84.5	88.9	89.5	92.1	93.1	93.1	94.2	94.2	94.2	94.7	94.7	94.9	95.4
≥ 500	45.3	75.4	80.3	85.0	89.4	90.0	92.6	93.6	93.6	94.7	94.7	94.7	95.2	95.2	95.4	95.9
≥ 400	45.3	75.4	80.3	85.1	89.7	90.3	92.9	94.1	94.1	95.2	95.2	95.2	95.7	95.7	95.9	96.4
≥ 300	45.3	75.4	80.3	85.3	89.9	90.5	93.3	94.4	94.4	95.5	95.5	95.5	96.0	96.0	96.3	96.8
≥ 200	45.3	75.5	80.4	85.4	90.0	90.6	93.4	94.7	94.8	96.5	96.7	96.7	97.5	97.5	97.8	98.4
≥ 100	45.3	75.5	80.4	85.4	90.0	90.6	93.4	94.7	94.8	96.5	96.7	96.8	97.9	97.9	98.3	99.3
≥ 0	45.3	75.5	80.4	85.4	90.0	90.6	93.4	94.7	94.8	96.5	96.7	96.8	97.9	97.9	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 808

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500 (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	29.9	47.5	49.4	52.6	55.7	56.0	56.5	56.6	56.9	57.6	58.0	58.0	58.2	58.5	59.2	60.0
≥ 20000	31.2	50.2	52.3	55.5	59.2	59.6	60.3	60.5	60.8	61.6	62.0	62.0	62.3	62.5	63.4	64.3
≥ 18000	31.2	50.2	52.3	55.5	59.2	59.6	60.3	60.5	60.8	61.6	62.0	62.0	62.3	62.5	63.4	64.3
≥ 16000	31.2	50.2	52.3	55.5	59.2	59.6	60.3	60.5	60.8	61.6	62.0	62.0	62.3	62.5	63.4	64.3
≥ 14000	31.3	50.3	52.5	55.6	59.4	59.7	60.4	60.6	60.9	61.8	62.1	62.1	62.4	62.6	63.5	64.4
≥ 12000	31.7	50.8	53.0	56.1	59.9	60.3	60.9	61.1	61.4	62.3	62.6	62.6	62.9	63.1	64.0	64.9
≥ 10000	32.3	52.7	55.0	58.5	62.3	62.6	63.3	63.5	63.8	64.7	65.0	65.0	65.3	65.5	66.4	67.3
≥ 9000	32.8	53.5	55.7	59.2	63.0	63.4	64.0	64.3	64.5	65.4	65.8	65.8	66.0	66.3	67.2	68.1
≥ 8000	33.6	54.2	56.5	60.0	63.8	64.2	64.8	65.0	65.3	66.2	66.5	66.5	66.8	67.0	67.9	68.8
≥ 7000	34.1	54.7	57.0	60.5	64.3	64.7	65.4	65.7	65.9	66.8	67.2	67.2	67.4	67.7	68.6	69.4
≥ 6000	34.3	55.8	58.9	62.4	66.2	66.5	67.3	67.5	67.8	68.7	69.1	69.1	69.3	69.6	70.4	71.3
≥ 5000	35.0	56.7	59.7	63.3	67.0	67.4	68.2	68.4	68.7	69.6	69.9	69.9	70.2	70.4	71.3	72.2
≥ 4500	35.7	58.0	61.1	64.9	68.7	69.1	69.8	70.1	70.3	71.3	71.7	71.7	71.9	72.2	73.1	74.0
≥ 4000	36.4	58.7	61.9	65.8	69.6	69.9	70.8	71.3	71.6	72.6	73.0	73.0	73.2	73.5	74.3	75.2
≥ 3500	37.2	60.4	63.5	67.4	71.2	71.6	72.5	73.0	73.2	74.2	74.7	74.7	75.0	75.2	76.1	77.0
≥ 3000	38.7	62.3	65.4	69.3	73.2	73.6	74.5	75.0	75.2	76.2	76.7	76.7	77.0	77.2	78.1	79.0
≥ 2500	40.1	64.8	67.9	72.1	76.5	76.9	77.9	78.5	78.7	79.7	80.3	80.3	80.5	80.8	81.6	82.5
≥ 2000	40.5	65.9	69.2	73.5	78.4	78.9	79.9	80.5	80.8	82.1	82.6	82.6	82.9	83.1	84.0	84.9
≥ 1800	40.6	66.5	69.8	74.1	79.0	79.5	80.5	81.1	81.4	82.8	83.3	83.3	83.5	83.8	84.7	85.5
≥ 1500	40.9	67.5	70.9	75.3	80.8	81.4	82.6	83.3	83.6	85.0	85.5	85.5	85.8	86.0	86.9	87.8
≥ 1200	41.3	68.4	71.8	76.4	81.8	82.4	83.8	84.4	84.9	86.3	86.8	86.8	87.0	87.3	88.3	89.2
≥ 1000	41.5	69.2	72.6	77.1	82.5	83.3	84.8	85.4	85.9	87.3	87.8	87.8	88.1	88.3	89.3	90.2
≥ 900	41.5	69.3	73.1	77.6	83.0	83.8	85.3	85.9	86.4	87.8	88.3	88.3	88.6	88.8	89.8	90.7
≥ 800	41.8	69.9	74.0	78.6	84.4	85.3	87.2	87.8	88.3	89.7	90.2	90.2	90.4	90.7	91.7	92.6
≥ 700	42.1	70.8	74.8	79.5	85.3	86.2	88.1	88.8	89.3	90.8	91.3	91.3	91.6	91.8	92.8	93.7
≥ 600	42.1	71.1	75.1	79.7	85.7	86.5	88.8	89.6	90.1	91.7	92.2	92.2	92.5	92.7	93.7	94.6
≥ 500	42.1	71.1	75.2	80.0	86.0	86.9	89.3	90.1	90.6	92.2	92.7	92.7	93.0	93.2	94.2	95.1
≥ 400	42.1	71.3	75.5	80.3	86.3	87.2	89.7	90.4	91.1	93.1	93.6	93.7	94.0	94.2	95.2	96.1
≥ 300	42.1	71.3	75.5	80.3	86.4	87.3	89.8	90.6	91.3	93.3	93.8	94.0	94.2	94.5	95.5	96.4
≥ 200	42.1	71.3	75.7	80.5	86.7	87.7	90.2	91.1	91.8	94.1	94.7	94.8	95.3	95.6	96.7	97.6
≥ 100	42.1	71.3	75.7	80.5	86.8	87.8	90.3	91.2	91.9	94.2	94.8	95.0	95.5	96.1	97.4	98.6
≥ 0	42.1	71.3	75.7	80.5	86.8	87.8	90.3	91.2	91.9	94.2	94.8	95.0	95.5	96.1	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 795

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST: 0600-0800

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	26.2	41.4	43.2	45.7	48.9	50.4	51.0	52.0	52.0	53.3	53.7	53.7	53.8	54.1	54.6	56.2
≥ 20000	28.2	44.4	46.5	49.4	53.1	55.1	56.1	57.1	57.2	58.6	58.9	58.9	59.1	59.4	59.9	62.0
≥ 18000	28.3	44.5	46.7	49.5	53.2	55.2	56.2	57.2	57.3	58.7	59.1	59.1	59.2	59.6	60.0	62.2
≥ 16000	28.3	44.5	46.7	49.5	53.2	55.2	56.2	57.2	57.3	58.7	59.1	59.1	59.2	59.6	60.0	62.2
≥ 14000	28.4	44.7	46.8	49.8	53.5	55.5	56.5	57.4	57.6	58.9	59.3	59.3	59.4	59.8	60.3	62.4
≥ 12000	28.8	45.5	47.6	50.6	54.3	56.3	57.3	58.3	58.4	59.8	60.2	60.2	60.3	60.7	61.2	63.3
≥ 10000	30.1	47.6	49.9	53.2	57.1	59.2	60.3	61.3	61.4	62.9	63.3	63.3	63.4	63.8	64.3	66.5
≥ 9000	30.1	47.9	50.1	53.5	57.3	59.4	60.5	61.5	61.7	63.2	63.5	63.5	63.6	64.0	64.5	66.7
≥ 8000	32.1	50.7	53.1	56.6	60.4	62.5	63.8	64.8	64.9	66.4	66.7	66.7	66.9	67.2	67.7	70.0
≥ 7000	32.3	51.2	53.6	57.1	60.9	63.0	64.3	65.3	65.4	66.9	67.2	67.2	67.4	67.7	68.2	70.5
≥ 6000	33.1	52.6	55.0	58.4	62.3	64.4	65.6	66.6	66.7	68.2	68.6	68.6	68.7	69.1	69.6	71.8
≥ 5000	33.5	53.5	55.8	59.4	63.8	65.9	67.1	68.1	68.2	69.9	70.2	70.3	70.5	70.8	71.3	73.6
≥ 4500	34.2	54.6	57.1	60.7	65.1	67.5	68.9	69.9	70.0	71.6	72.0	72.1	72.2	72.6	73.1	75.3
≥ 4000	34.6	55.1	57.6	61.2	65.6	68.0	69.4	70.3	70.5	72.1	72.5	72.6	72.7	73.1	73.6	75.8
≥ 3500	35.2	56.3	58.8	62.4	66.9	69.2	70.6	71.7	71.8	73.6	73.9	74.1	74.3	74.7	75.2	77.4
≥ 3000	36.1	57.7	60.4	64.4	68.9	71.3	72.8	73.9	74.1	75.8	76.2	76.3	76.6	76.9	77.5	79.8
≥ 2500	36.7	58.9	61.8	65.9	70.6	73.3	74.9	76.1	76.2	77.9	78.3	78.5	78.8	79.2	79.8	82.0
≥ 2000	37.6	60.7	63.8	67.9	72.6	75.3	76.9	78.3	78.4	80.4	80.8	81.0	81.3	81.6	82.3	84.5
≥ 1800	37.6	60.7	63.8	67.9	72.7	75.4	77.0	78.4	78.5	80.6	81.0	81.3	81.5	81.9	82.5	84.7
≥ 1500	38.7	62.5	65.6	69.7	74.6	77.3	79.0	80.4	80.5	82.6	83.0	83.3	83.5	83.9	84.5	86.7
≥ 1200	39.2	63.8	66.9	71.1	76.1	78.9	80.6	82.0	82.1	84.4	84.9	85.1	85.5	85.9	86.5	88.7
≥ 1000	39.2	63.9	67.4	71.7	76.7	79.7	81.5	83.1	83.3	85.6	86.1	86.4	86.7	87.1	87.7	90.0
≥ 900	39.5	64.6	68.4	72.7	77.8	80.8	82.6	84.2	84.4	86.7	87.2	87.5	87.8	88.2	88.8	91.1
≥ 800	40.0	65.3	69.2	73.6	78.9	82.0	83.9	85.6	85.7	88.1	88.6	88.8	89.2	89.6	90.2	92.4
≥ 700	40.1	65.9	70.0	74.3	79.7	82.8	84.6	86.4	86.5	89.0	89.5	89.7	90.1	90.4	91.1	93.3
≥ 600	40.1	66.0	70.5	74.8	80.1	83.6	85.6	87.3	87.5	90.0	90.4	90.7	91.1	91.4	92.1	94.3
≥ 500	40.1	66.3	70.8	75.2	80.9	84.6	87.0	88.8	89.1	91.6	92.3	92.6	92.9	93.3	93.9	96.2
≥ 400	40.1	66.3	70.8	75.5	81.0	84.9	87.3	89.2	89.5	91.9	92.7	92.9	93.3	93.7	94.3	96.5
≥ 300	40.1	66.3	70.8	75.6	81.4	85.2	87.7	89.7	90.0	92.4	93.8	94.0	94.4	94.8	95.4	97.6
≥ 200	40.1	66.3	70.8	75.6	81.4	85.2	87.8	90.1	90.3	92.9	94.3	94.7	95.0	95.7	96.4	98.9
≥ 100	40.1	66.3	70.8	75.6	81.4	85.2	87.8	90.1	90.3	92.9	94.3	94.7	95.0	95.8	97.0	99.8
≥ 0	40.1	66.3	70.8	75.6	81.4	85.2	87.8	90.1	90.3	92.9	94.3	94.7	95.0	95.8	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS 806

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	AUG

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100 HOURS (LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	28.5	46.5	48.2	50.2	51.1	51.3	51.4	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 20000	30.7	49.8	51.7	54.0	55.1	55.4	55.6	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 18000	30.9	49.9	51.8	54.2	55.3	55.5	55.8	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 16000	30.9	49.9	51.8	54.2	55.3	55.5	55.8	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 14000	30.9	49.9	51.8	54.4	55.5	55.8	56.1	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 12000	31.5	51.2	53.0	55.6	56.9	57.1	57.6	57.7	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 10000	33.2	54.5	56.6	59.4	61.1	61.6	62.3	62.5	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7
≥ 9000	33.6	55.0	57.1	60.0	62.0	62.5	63.2	63.3	63.3	63.4	63.6	63.6	63.6	63.6	63.6	63.6
≥ 8000	35.9	58.1	60.8	63.8	65.8	66.3	67.0	67.2	67.2	67.3	67.5	67.5	67.5	67.5	67.5	67.5
≥ 7000	36.7	59.0	61.8	64.9	66.9	67.4	68.2	68.4	68.4	68.5	68.8	68.8	68.8	68.8	68.8	68.8
≥ 6000	37.2	59.6	62.5	65.6	67.5	68.0	68.8	69.0	69.0	69.1	69.4	69.4	69.4	69.4	69.4	69.4
≥ 5000	37.5	60.5	63.3	66.4	68.6	69.1	69.9	70.1	70.1	70.3	70.5	70.5	70.5	70.5	70.5	70.5
≥ 4500	37.8	61.0	63.8	66.9	69.3	69.8	70.6	70.9	70.9	71.0	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4000	38.3	61.7	64.6	67.7	70.0	70.5	71.4	71.9	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2
≥ 3500	39.3	62.9	65.8	69.0	71.4	72.1	73.0	73.5	73.5	73.6	73.9	73.9	73.9	73.9	73.9	73.9
≥ 3000	40.0	64.2	67.3	70.6	73.2	74.0	75.0	75.6	75.6	75.7	76.0	76.0	76.0	76.0	76.0	76.0
≥ 2500	41.1	66.5	69.4	72.9	75.6	76.5	77.5	77.9	77.9	78.1	78.5	78.5	78.5	78.5	78.5	78.5
≥ 2000	43.0	69.6	73.1	77.0	79.7	80.5	81.5	82.2	82.2	82.3	82.5	82.5	82.5	82.5	82.5	82.5
≥ 1800	43.0	70.1	73.6	77.4	80.2	81.0	82.2	82.8	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1500	44.4	73.4	77.0	81.3	84.1	85.0	86.4	87.0	87.0	87.1	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1200	45.2	75.5	79.3	83.8	87.0	88.1	89.5	90.1	90.1	90.2	90.5	90.5	90.5	90.5	90.5	90.5
≥ 1000	45.7	77.2	81.0	85.5	88.8	90.0	91.4	92.2	92.3	92.4	92.7	92.7	92.7	92.7	92.7	92.7
≥ 900	45.7	77.5	81.2	85.6	89.1	90.2	91.7	92.7	92.8	92.9	93.2	93.2	93.2	93.2	93.2	93.2
≥ 800	46.3	78.4	82.3	86.7	90.5	91.6	93.2	94.3	94.4	94.5	94.8	94.8	94.8	94.8	94.8	94.8
≥ 700	46.5	78.8	82.7	87.1	91.0	92.4	94.1	95.3	95.4	95.5	95.8	95.8	95.8	95.8	95.8	95.8
≥ 600	46.5	79.1	83.0	87.5	91.7	93.2	94.8	96.0	96.2	96.4	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	46.5	79.1	83.0	87.6	92.3	93.8	95.4	96.7	96.8	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 400	46.5	79.1	83.0	87.7	92.4	94.1	95.7	97.4	97.5	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	46.5	79.1	83.0	87.7	92.4	94.1	96.0	97.9	98.0	98.6	99.0	99.0	99.1	99.3	99.3	99.3
≥ 200	46.5	79.1	83.0	87.7	92.4	94.1	96.0	97.9	98.1	99.0	99.5	99.6	99.9	100.0	100.0	100.0
≥ 100	46.5	79.1	83.0	87.7	92.4	94.1	96.0	97.9	98.1	99.0	99.5	99.6	99.9	100.0	100.0	100.0
≥ 0	46.5	79.1	83.0	87.7	92.4	94.1	96.0	97.9	98.1	99.0	99.5	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 807

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOUR LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING	50.0	48.7	49.6	51.1	51.4	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 20000	54.9	55.3	56.8	58.2	58.6	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 18000	34.9	55.3	56.8	58.2	58.6	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 16000	34.9	55.3	56.8	58.2	58.6	58.7	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 14000	35.3	55.8	57.6	59.2	59.6	59.7	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000	35.8	56.9	58.7	60.3	60.7	61.0	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 10000	36.8	58.6	60.8	62.7	63.1	63.4	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 9000	37.5	59.4	61.7	63.6	63.9	64.3	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 8000	38.9	61.2	63.6	65.4	65.9	66.5	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 7000	39.7	62.1	64.6	66.4	67.0	67.7	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 6000	39.9	62.6	65.1	66.9	67.5	68.2	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 5000	40.6	63.3	65.8	67.9	68.5	69.1	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 4500	40.9	64.1	66.5	68.6	69.3	69.9	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
≥ 4000	41.8	65.7	68.2	70.4	71.0	71.7	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 3500	43.2	67.5	71.0	72.2	72.9	73.6	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 3000	45.1	71.0	73.6	75.8	76.7	77.4	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 2500	47.7	75.3	78.1	80.4	81.3	82.0	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 2000	48.8	77.8	80.8	83.6	84.9	85.6	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1800	49.2	79.1	82.0	85.4	86.6	87.4	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1500	49.9	80.8	83.9	87.9	89.3	90.5	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1200	50.6	81.9	85.1	89.3	91.2	92.3	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	50.9	82.8	86.4	90.6	92.4	93.6	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 900	50.9	82.8	86.4	90.6	92.4	93.6	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	51.4	83.4	87.0	91.2	93.4	94.5	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 700	51.4	83.4	87.0	91.3	93.7	94.8	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 600	51.4	83.4	87.2	91.9	94.5	95.7	97.0	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	51.4	83.6	87.5	92.2	95.0	96.2	97.5	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 400	51.4	83.8	87.9	92.6	95.5	96.7	98.0	98.9	98.9	99.0	99.3	99.3	99.4	99.4	99.4	99.4
≥ 300	51.4	83.8	87.9	92.6	95.5	96.7	98.0	98.9	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	51.4	83.8	87.9	92.6	95.5	96.7	98.0	98.9	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	51.4	83.8	87.9	92.6	95.5	96.7	98.0	98.9	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	51.4	83.8	87.9	92.6	95.5	96.7	98.0	98.9	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 807

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST: 1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	52.2	50.9	52.2	53.4	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	58.3	59.5	61.8	63.6	64.1	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000	58.3	59.5	61.8	63.6	64.1	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 16000	38.3	59.5	61.8	63.6	64.1	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000	38.8	60.1	62.5	64.4	64.9	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000	39.7	61.2	64.0	66.0	66.5	66.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 10000	40.3	63.1	66.0	67.9	68.4	68.7	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 9000	40.7	63.5	66.5	68.4	68.9	69.2	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 8000	42.0	65.6	68.6	70.6	71.1	71.4	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 7000	42.8	67.2	70.3	72.5	73.2	73.5	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	42.8	67.8	70.9	73.1	73.8	74.1	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	43.2	68.7	71.7	74.0	74.7	74.9	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 4500	44.3	69.9	73.0	75.2	76.0	76.3	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 4000	45.5	71.5	74.8	77.0	77.9	78.3	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 3500	46.7	73.1	76.8	79.0	80.0	80.8	81.4	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3000	48.5	75.7	79.4	81.9	82.9	84.2	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 2500	49.9	77.6	81.3	84.3	85.3	86.5	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 2000	50.5	79.5	83.3	86.2	87.5	88.8	89.4	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1800	50.9	80.1	84.0	87.1	88.3	89.8	90.4	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 1500	52.2	81.9	86.0	89.2	90.4	91.9	92.6	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1200	52.6	82.4	86.6	89.8	91.2	92.8	93.5	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000	52.9	83.4	87.7	90.9	92.4	94.1	94.8	95.2	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900	52.9	83.4	87.7	91.0	92.5	94.2	95.1	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 800	52.9	83.5	87.8	91.2	92.6	94.3	95.3	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 700	52.9	83.7	88.0	91.3	92.9	94.6	95.8	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 600	52.9	83.7	88.0	91.3	92.9	94.7	96.1	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 500	52.9	83.8	88.1	91.5	93.4	95.3	96.7	97.5	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400	52.9	83.9	88.3	91.9	94.1	96.2	97.9	98.9	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 300	52.9	83.9	88.3	91.9	94.3	96.6	98.3	99.3	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9
≥ 200	52.9	83.9	88.3	91.9	94.3	96.6	98.3	99.3	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 100	52.9	83.9	88.3	91.9	94.3	96.6	98.3	99.3	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 0	52.9	83.9	88.3	91.9	94.3	96.6	98.3	99.3	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 814

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥½	≥	≥5/16	≥	≥0
NO CEILING	36.4	54.6	56.0	57.4	58.3	58.5	59.0	59.3	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 20000	40.0	62.1	64.6	66.4	67.4	67.7	68.3	68.6	68.6	68.9	68.9	68.9	69.0	69.0	69.0	69.0
≥ 18000	40.0	62.2	64.7	66.5	67.5	67.8	68.4	68.8	68.8	69.0	69.0	69.0	69.1	69.1	69.1	69.1
≥ 16000	40.0	62.2	64.7	66.5	67.5	67.8	68.4	68.8	68.8	69.0	69.0	69.0	69.1	69.1	69.1	69.1
≥ 14000	40.4	62.6	65.1	66.9	67.9	68.1	68.8	69.1	69.1	69.4	69.4	69.4	69.5	69.5	69.5	69.5
≥ 12000	40.5	63.3	66.0	67.9	69.3	69.5	70.1	70.5	70.5	70.7	70.7	70.7	70.9	70.9	70.9	70.9
≥ 10000	41.1	64.4	67.5	69.5	70.9	71.4	72.0	72.3	72.3	72.6	72.6	72.6	72.7	72.7	72.7	72.7
≥ 9000	41.2	64.6	67.8	69.8	71.1	71.6	72.2	72.6	72.6	72.8	72.8	72.8	73.0	73.0	73.0	73.0
≥ 8000	42.3	66.2	69.6	71.9	73.3	74.0	74.6	74.9	74.9	75.2	75.2	75.2	75.3	75.3	75.3	75.3
≥ 7000	43.5	67.3	70.7	73.0	74.4	75.1	75.7	76.0	76.0	76.3	76.3	76.3	76.4	76.4	76.4	76.4
≥ 6000	44.0	68.3	71.9	74.1	75.6	76.3	76.9	77.3	77.3	77.5	77.5	77.5	77.7	77.7	77.7	77.7
≥ 5000	44.6	69.6	73.2	75.6	77.2	77.9	78.5	78.9	78.9	79.1	79.1	79.1	79.3	79.3	79.3	79.3
≥ 4500	45.2	70.6	74.4	76.8	78.6	79.5	80.1	80.5	80.5	80.7	80.7	80.7	80.9	80.9	80.9	80.9
≥ 4000	45.8	71.9	75.7	78.1	80.1	81.0	81.9	82.2	82.2	82.5	82.5	82.5	82.6	82.6	82.6	82.6
≥ 3500	46.3	73.1	77.3	79.8	81.9	82.7	83.6	84.1	84.1	84.3	84.3	84.3	84.4	84.4	84.4	84.4
≥ 3000	47.8	74.8	79.4	82.3	84.8	85.9	86.8	87.3	87.3	87.5	87.5	87.5	87.7	87.7	87.7	87.7
≥ 2500	48.1	75.7	80.4	83.6	86.3	87.7	88.8	89.3	89.3	89.8	89.8	89.8	89.9	89.9	89.9	89.9
≥ 2000	49.1	77.5	82.2	85.7	88.4	90.0	91.2	91.9	91.9	92.3	92.3	92.3	92.5	92.5	92.5	92.5
≥ 1800	49.4	77.9	82.6	86.0	88.8	90.4	91.6	92.2	92.2	92.7	92.7	92.7	92.8	92.8	92.8	92.8
≥ 1500	49.6	78.4	83.2	86.7	89.4	91.0	92.2	92.8	92.8	93.3	93.3	93.3	93.6	93.6	93.6	93.6
≥ 1200	49.6	78.6	83.5	86.9	89.6	91.4	92.6	93.3	93.3	93.8	93.8	94.0	94.1	94.1	94.1	94.1
≥ 1000	49.9	79.3	84.2	87.7	90.5	92.2	93.6	94.3	94.3	94.9	94.9	95.1	95.2	95.2	95.3	95.3
≥ 900	50.1	79.8	84.7	88.4	91.2	93.0	94.3	95.1	95.1	95.7	95.7	95.8	95.9	95.9	96.0	96.0
≥ 800	50.2	79.9	85.2	88.9	91.7	93.5	94.8	95.6	95.6	96.2	96.2	96.3	96.4	96.4	96.5	96.5
≥ 700	50.2	79.9	85.2	88.9	91.7	93.5	94.9	95.7	95.7	96.3	96.3	96.4	96.5	96.5	96.7	96.7
≥ 600	50.2	80.0	85.3	89.0	92.0	93.8	95.4	96.2	96.2	96.8	96.8	96.9	97.0	97.0	97.2	97.2
≥ 500	50.4	80.1	85.4	89.3	92.3	94.2	95.8	96.5	96.5	97.3	97.3	97.4	97.7	97.7	97.8	97.8
≥ 400	50.4	80.1	85.4	89.4	93.1	94.9	96.7	97.7	97.7	98.4	98.4	98.6	99.0	99.0	99.1	99.1
≥ 300	50.4	80.1	85.4	89.4	93.1	94.9	96.7	97.7	97.7	98.5	98.6	98.9	99.5	99.5	99.6	99.6
≥ 200	50.4	80.1	85.4	89.4	93.1	94.9	96.7	97.7	97.7	98.6	99.0	99.3	99.9	99.9	100.0	100.0
≥ 100	50.4	80.1	85.4	89.4	93.1	94.9	96.7	97.7	97.7	98.6	99.0	99.3	99.9	99.9	100.0	100.0
≥ 0	50.4	80.1	85.4	89.4	93.1	94.9	96.7	97.7	97.7	98.6	99.0	99.3	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	35.6	56.0	58.6	61.2	62.5	62.5	63.5	64.0	64.0	64.4	64.4	64.4	64.5	64.5	64.6	64.9
≥ 20000	37.2	60.1	63.3	66.4	68.4	68.4	69.5	70.0	70.0	70.3	70.3	70.3	70.5	70.5	70.6	70.8
≥ 18000	37.2	60.1	63.3	66.4	68.4	68.4	69.5	70.0	70.0	70.3	70.3	70.3	70.5	70.5	70.6	70.8
≥ 16000	37.2	60.1	63.3	66.4	68.4	68.4	69.5	70.0	70.0	70.3	70.3	70.3	70.5	70.5	70.6	70.8
≥ 14000	37.2	60.2	63.4	66.5	68.5	68.5	69.6	70.1	70.1	70.5	70.5	70.5	70.6	70.6	70.7	71.0
≥ 12000	37.5	60.7	64.3	67.4	69.5	69.5	70.6	71.1	71.1	71.4	71.4	71.4	71.6	71.6	71.7	71.9
≥ 10000	38.2	62.5	67.0	70.3	72.4	72.6	73.7	74.2	74.2	74.5	74.5	74.5	74.7	74.7	74.8	75.0
≥ 9000	38.9	63.3	67.7	71.1	73.2	73.3	74.4	74.9	74.9	75.3	75.3	75.3	75.4	75.4	75.5	75.8
≥ 8000	39.2	63.9	68.7	72.1	74.2	74.3	75.4	75.9	75.9	76.3	76.3	76.3	76.4	76.4	76.5	76.8
≥ 7000	39.9	65.1	70.0	73.3	75.4	75.5	76.6	77.1	77.1	77.5	77.5	77.5	77.6	77.6	77.8	78.0
≥ 6000	40.5	66.8	71.1	74.5	76.6	76.8	77.9	78.4	78.4	78.7	78.7	78.7	78.9	78.9	79.0	79.2
≥ 5000	41.0	67.2	72.4	76.0	78.1	78.2	79.4	79.9	79.9	80.2	80.2	80.2	80.3	80.3	80.5	80.7
≥ 4500	41.2	67.7	73.1	76.6	79.0	79.1	80.3	80.8	80.8	81.5	81.5	81.5	81.6	81.6	81.7	82.0
≥ 4000	41.8	69.0	74.3	77.9	80.2	80.3	81.6	82.1	82.1	82.7	82.7	82.7	82.8	82.8	82.9	83.2
≥ 3500	41.9	69.8	75.5	79.1	81.7	81.8	83.2	83.7	83.7	84.3	84.5	84.5	84.7	84.7	84.8	85.0
≥ 3000	42.3	70.7	76.8	80.5	83.6	83.7	85.3	85.8	85.8	86.4	86.7	86.7	86.8	86.8	86.9	87.1
≥ 2500	42.9	71.7	77.9	81.7	84.8	84.9	87.0	87.5	87.5	88.3	88.5	88.5	88.6	88.6	88.8	89.0
≥ 2000	43.6	72.9	79.4	83.4	86.8	86.9	89.1	89.9	89.9	90.7	91.0	91.0	91.1	91.1	91.2	91.5
≥ 1800	44.4	73.8	80.3	84.7	88.0	88.1	90.4	91.1	91.1	92.0	92.2	92.2	92.3	92.3	92.5	92.7
≥ 1500	44.6	74.4	81.3	85.8	89.1	89.2	91.5	92.2	92.2	93.1	93.3	93.3	93.4	93.4	93.6	93.8
≥ 1200	44.6	74.4	81.6	86.2	89.5	89.6	92.0	92.7	92.7	93.6	93.8	93.8	93.9	93.9	94.1	94.3
≥ 1000	44.9	74.9	82.2	86.8	90.1	90.2	92.7	93.6	93.6	94.4	94.7	94.7	94.8	94.8	94.9	95.2
≥ 900	45.0	75.2	82.4	87.0	90.4	90.5	93.0	93.8	93.8	94.7	94.9	94.9	95.1	95.1	95.2	95.4
≥ 800	45.1	75.5	82.9	87.6	91.0	91.1	93.6	94.4	94.4	95.3	95.6	95.6	95.7	95.7	95.8	96.0
≥ 700	45.1	75.5	82.9	87.6	91.1	91.2	93.7	94.6	94.6	95.4	95.7	95.7	95.8	95.8	95.9	96.2
≥ 600	45.1	75.5	82.9	87.6	91.2	91.3	93.8	94.7	94.7	95.6	95.8	95.8	95.9	95.9	96.0	96.3
≥ 500	45.2	75.8	83.4	88.1	91.8	92.0	94.6	95.4	95.4	96.3	96.5	96.5	96.7	96.7	96.8	97.0
≥ 400	45.2	75.8	83.4	88.1	92.2	92.3	95.1	96.0	96.0	97.2	97.4	97.5	97.7	97.7	97.8	98.0
≥ 300	45.2	75.8	83.4	88.3	92.5	92.6	95.6	96.5	96.5	97.8	98.0	98.1	98.3	98.3	98.4	98.6
≥ 200	45.2	75.8	83.4	88.3	92.5	92.7	95.8	96.9	96.9	98.3	98.6	98.8	98.9	98.9	99.0	99.3
≥ 100	45.2	75.8	83.4	88.3	92.5	92.7	95.8	96.9	96.9	98.3	98.6	98.8	98.9	98.9	99.3	99.5
≥ 0	45.2	75.8	83.4	88.3	92.5	92.7	95.8	96.9	96.9	98.3	98.6	98.8	98.9	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 809

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	31.7	50.0	51.7	53.8	55.3	55.7	56.1	56.4	56.4	56.8	56.9	56.9	57.0	57.1	57.3	57.7
≥ 20000	34.6	54.8	57.0	59.4	61.3	61.7	62.3	62.7	62.7	63.2	63.3	63.3	63.4	63.5	63.7	64.2
≥ 18000	34.6	54.8	57.0	59.4	61.4	61.8	62.3	62.7	62.8	63.2	63.3	63.3	63.5	63.5	63.7	64.2
≥ 16000	34.6	54.8	57.0	59.4	61.4	61.8	62.3	62.7	62.8	63.2	63.3	63.3	63.5	63.5	63.7	64.2
≥ 14000	34.8	55.1	57.4	59.8	61.7	62.2	62.7	63.1	63.2	63.6	63.7	63.7	63.9	63.9	64.1	64.6
≥ 12000	35.2	55.9	58.3	60.8	62.8	63.2	63.9	64.3	64.3	64.8	64.9	64.9	65.0	65.1	65.3	65.8
≥ 10000	36.1	57.9	60.6	63.3	65.4	65.9	66.7	67.1	67.1	67.6	67.7	67.7	67.9	67.9	68.1	68.6
≥ 9000	36.5	58.3	61.2	63.9	66.0	66.6	67.3	67.7	67.8	68.3	68.4	68.4	68.5	68.6	68.8	69.3
≥ 8000	37.7	60.0	63.0	65.8	68.0	68.6	69.4	69.8	69.8	70.3	70.4	70.4	70.6	70.6	70.8	71.3
≥ 7000	38.4	61.0	64.0	66.9	69.1	69.7	70.5	70.9	70.9	71.4	71.5	71.5	71.7	71.7	71.9	72.4
≥ 6000	38.8	61.8	65.0	67.9	70.1	70.7	71.5	71.9	71.9	72.4	72.6	72.6	72.7	72.8	73.0	73.4
≥ 5000	39.5	62.8	66.0	69.0	71.3	71.9	72.7	73.1	73.2	73.7	73.8	73.8	73.9	74.0	74.2	74.7
≥ 4500	39.9	63.7	67.0	70.0	72.5	73.1	74.0	74.4	74.4	75.0	75.1	75.1	75.2	75.3	75.5	76.0
≥ 4000	40.5	64.8	68.1	71.2	73.6	74.3	75.2	75.7	75.7	76.3	76.4	76.4	76.6	76.6	76.8	77.3
≥ 3500	41.4	66.2	69.7	72.8	75.4	76.2	77.1	77.6	77.7	78.2	78.4	78.4	78.6	78.6	78.8	79.3
≥ 3000	42.6	68.0	71.7	75.0	77.8	78.7	79.8	80.3	80.3	80.9	81.1	81.1	81.2	81.3	81.5	82.0
≥ 2500	43.7	70.0	73.8	77.3	80.2	81.2	82.4	82.9	82.9	83.6	83.7	83.8	83.9	84.0	84.2	84.7
≥ 2000	44.7	72.0	76.0	79.7	82.8	83.8	85.1	85.7	85.8	86.5	86.7	86.7	86.9	86.9	87.2	87.6
≥ 1800	44.9	72.6	76.6	80.4	83.5	84.6	85.9	86.5	86.6	87.3	87.5	87.5	87.7	87.7	87.9	88.4
≥ 1500	45.6	74.0	78.2	82.2	85.4	86.6	88.0	88.7	88.7	89.5	89.7	89.7	89.9	89.9	90.2	90.6
≥ 1200	46.0	74.9	79.2	83.3	86.6	87.8	89.3	90.0	90.1	90.9	91.1	91.1	91.3	91.4	91.6	92.1
≥ 1000	46.3	75.6	80.0	84.2	87.6	88.8	90.4	91.2	91.3	92.1	92.3	92.4	92.5	92.6	92.9	93.3
≥ 900	46.3	75.9	80.4	84.8	88.2	89.2	90.8	91.7	91.8	92.6	92.8	92.8	93.0	93.1	93.3	93.8
≥ 800	46.6	76.3	81.0	85.2	88.8	90.1	91.8	92.7	92.8	93.6	93.8	93.8	94.0	94.1	94.3	94.8
≥ 700	46.7	76.6	81.3	85.5	89.2	90.5	92.3	93.2	93.3	94.2	94.4	94.4	94.6	94.7	94.9	95.4
≥ 600	46.7	76.8	81.5	85.8	89.6	91.1	93.0	93.9	94.0	94.9	95.1	95.2	95.3	95.4	95.7	96.2
≥ 500	46.8	76.9	81.8	86.1	90.2	91.6	93.6	94.6	94.7	95.7	96.0	96.0	96.2	96.3	96.5	97.0
≥ 400	46.8	77.0	81.9	86.3	90.6	92.1	94.2	95.3	95.5	96.5	96.8	96.9	97.1	97.2	97.5	98.0
≥ 300	46.8	77.0	81.9	86.4	90.7	92.2	94.4	95.6	95.8	96.9	97.3	97.4	97.7	97.8	98.0	98.5
≥ 200	46.8	77.0	81.9	86.4	90.8	92.3	94.5	95.8	96.0	97.4	97.8	97.9	98.3	98.5	98.7	99.3
≥ 100	46.8	77.0	81.9	86.4	90.8	92.3	94.6	95.8	96.0	97.4	97.8	98.0	98.4	98.6	99.0	99.6
≥ 0	46.8	77.0	81.9	86.4	90.8	92.3	94.6	95.8	96.0	97.4	97.8	98.0	98.4	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6956

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	36.9	50.7	52.1	53.7	55.0	55.0	55.1	55.1	55.1	55.5	55.5	55.5	55.5	55.5	55.6	55.7
≥ 20000	37.5	52.4	53.8	55.5	56.9	56.9	57.0	57.0	57.0	57.4	57.4	57.4	57.4	57.4	57.5	57.7
≥ 18000	37.5	52.4	53.8	55.5	56.9	56.9	57.0	57.0	57.0	57.4	57.4	57.4	57.4	57.4	57.5	57.7
≥ 16000	37.5	52.4	53.8	55.5	56.9	56.9	57.0	57.0	57.0	57.4	57.4	57.4	57.4	57.4	57.5	57.7
≥ 14000	37.5	52.4	53.8	55.5	56.9	56.9	57.0	57.0	57.0	57.4	57.4	57.4	57.4	57.4	57.5	57.7
≥ 12000	38.2	54.1	55.6	57.3	58.7	58.7	58.8	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.3	59.5
≥ 10000	39.5	55.9	57.5	59.2	60.7	60.7	61.0	61.1	61.1	61.5	61.5	61.5	61.5	61.5	61.6	61.8
≥ 9000	39.5	55.9	57.5	59.2	60.7	60.7	61.0	61.1	61.1	61.5	61.5	61.5	61.5	61.5	61.6	61.8
≥ 8000	39.9	56.2	57.9	59.7	61.3	61.3	61.5	61.6	61.6	62.0	62.0	62.0	62.0	62.0	62.2	62.3
≥ 7000	40.7	57.0	58.7	60.5	62.0	62.0	62.3	62.4	62.4	62.8	62.8	62.8	62.8	62.8	62.9	63.1
≥ 6000	42.0	58.9	60.6	62.4	64.0	64.0	64.2	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.9	65.0
≥ 5000	43.6	61.9	64.0	65.8	67.4	67.4	67.7	67.8	67.8	68.2	68.2	68.2	68.2	68.2	68.3	68.5
≥ 4500	45.2	64.4	66.5	68.3	70.0	70.0	70.3	70.4	70.4	70.8	70.8	70.8	70.8	70.8	70.9	71.0
≥ 4000	45.9	65.5	67.7	69.5	71.2	71.2	71.4	71.6	71.6	71.9	71.9	71.9	71.9	71.9	72.1	72.2
≥ 3500	47.1	68.0	70.3	72.1	73.9	73.9	74.1	74.3	74.3	74.8	74.8	74.8	74.8	74.8	74.9	75.0
≥ 3000	47.7	70.0	72.3	74.1	75.9	75.9	76.2	76.3	76.3	76.8	76.8	76.8	76.8	76.8	77.0	77.1
≥ 2500	50.5	74.1	77.0	78.9	80.8	80.8	81.1	81.2	81.2	81.7	81.7	81.7	81.7	81.7	81.9	82.0
≥ 2000	51.7	76.7	79.7	81.6	83.7	83.7	83.9	84.2	84.2	84.7	84.7	84.7	84.7	84.7	84.8	84.9
≥ 1800	52.8	77.7	80.7	82.6	84.7	84.7	84.9	85.2	85.2	85.7	85.7	85.7	85.7	85.7	85.8	86.0
≥ 1500	53.7	79.9	83.0	84.9	87.0	87.0	87.3	87.5	87.5	88.0	88.0	88.0	88.0	88.0	88.2	88.3
≥ 1200	54.3	81.5	84.6	86.5	88.5	88.5	88.8	89.2	89.2	89.7	89.7	89.7	89.7	89.7	89.8	90.0
≥ 1000	55.0	82.4	85.5	87.5	89.7	89.7	90.2	90.7	90.7	91.2	91.2	91.2	91.2	91.2	91.4	91.5
≥ 900	55.0	82.5	85.6	87.6	89.8	89.8	90.3	90.9	90.9	91.4	91.4	91.4	91.4	91.4	91.5	91.6
≥ 800	55.0	82.9	86.7	89.1	91.5	91.5	92.0	92.5	92.5	93.2	93.2	93.2	93.2	93.2	93.3	93.4
≥ 700	55.1	83.0	86.9	89.4	92.1	92.1	92.7	93.2	93.2	93.8	93.8	93.8	93.8	93.8	94.0	94.1
≥ 600	55.1	83.4	87.4	90.1	92.8	92.9	93.4	94.0	94.0	94.6	94.6	94.6	94.6	94.6	94.7	94.9
≥ 500	55.1	83.5	87.5	90.3	93.4	93.6	94.1	94.7	94.7	95.4	95.4	95.4	95.4	95.4	95.5	95.8
≥ 400	55.1	83.8	87.9	91.0	94.2	94.5	95.4	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.8	97.0
≥ 300	55.1	83.9	88.0	91.4	94.6	94.9	95.9	96.7	96.7	97.3	97.4	97.4	97.4	97.4	97.6	97.8
≥ 200	55.1	83.9	88.0	91.4	94.6	94.9	96.1	97.2	97.3	97.9	98.1	98.1	98.5	98.5	98.6	98.8
≥ 100	55.1	83.9	88.0	91.4	94.6	94.9	96.1	97.4	97.6	98.3	98.5	98.5	99.0	99.0	99.1	99.5
≥ 0	55.1	83.9	88.0	91.4	94.6	94.9	96.1	97.4	97.6	98.3	98.5	98.5	99.0	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 777

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

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 (HOURS (LST))

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	32.6	47.6	49.2	50.9	52.2	52.2	52.7	52.7	52.7	52.8	52.8	52.8	52.9	52.9	52.9	53.0
≥ 20000	33.5	48.7	50.4	52.0	53.3	53.3	53.8	53.8	53.8	53.9	53.9	53.9	54.1	54.1	54.1	54.2
≥ 18000	33.5	48.7	50.4	52.0	53.3	53.3	53.8	53.8	53.8	53.9	53.9	53.9	54.1	54.1	54.1	54.2
≥ 16000	33.5	48.7	50.4	52.0	53.3	53.3	53.8	53.8	53.8	53.9	53.9	53.9	54.1	54.1	54.1	54.2
≥ 14000	33.5	48.7	50.4	52.0	53.3	53.3	53.8	53.8	53.8	53.9	53.9	53.9	54.1	54.1	54.1	54.2
≥ 12000	33.5	49.5	51.1	52.8	54.1	54.1	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8	54.9
≥ 10000	34.5	51.1	52.8	54.4	56.1	56.1	56.6	56.6	56.6	56.7	56.7	56.7	56.9	56.9	56.9	57.2
≥ 9000	34.8	51.3	52.9	54.6	56.2	56.2	56.7	56.7	56.7	56.9	56.9	56.9	57.0	57.0	57.0	57.4
≥ 8000	36.2	52.9	54.6	56.2	57.9	57.9	58.4	58.4	58.4	58.5	58.5	58.5	58.6	58.6	58.6	59.0
≥ 7000	37.1	53.9	55.6	57.2	58.9	58.9	59.4	59.4	59.4	59.5	59.5	59.5	59.6	59.6	59.6	60.0
≥ 6000	38.5	55.8	57.5	59.1	60.9	60.9	61.4	61.4	61.4	61.5	61.5	61.5	61.7	61.7	61.7	62.1
≥ 5000	39.8	57.6	59.3	60.9	62.7	62.7	63.2	63.2	63.2	63.3	63.3	63.3	63.5	63.5	63.5	63.8
≥ 4500	40.8	58.5	60.3	62.1	63.8	63.8	64.7	64.7	64.7	64.8	64.8	64.8	65.0	65.0	65.0	65.4
≥ 4000	41.5	59.6	61.5	63.3	65.1	65.1	66.0	66.0	66.0	66.1	66.1	66.1	66.2	66.2	66.2	66.6
≥ 3500	42.6	62.4	64.3	66.1	68.0	68.0	68.9	68.9	68.9	69.0	69.0	69.0	69.2	69.2	69.2	69.5
≥ 3000	43.5	65.0	67.1	68.9	70.8	70.8	71.7	71.7	71.7	71.8	71.8	71.8	72.0	72.0	72.0	72.3
≥ 2500	46.4	69.3	71.7	73.5	75.4	75.4	76.3	76.3	76.3	76.4	76.4	76.4	76.5	76.5	76.5	76.9
≥ 2000	47.8	71.8	74.2	76.1	78.3	78.3	79.2	79.2	79.2	79.3	79.3	79.3	79.4	79.4	79.4	79.8
≥ 1800	48.8	72.8	75.3	77.2	79.3	79.3	80.2	80.2	80.2	80.3	80.3	80.3	80.5	80.5	80.5	80.8
≥ 1500	49.5	75.1	77.9	80.1	82.4	82.4	83.4	83.4	83.4	83.5	83.5	83.5	83.6	83.6	83.6	84.0
≥ 1200	50.9	77.2	80.1	82.2	84.8	84.8	86.0	86.0	86.0	86.2	86.4	86.4	86.5	86.5	86.5	86.9
≥ 1000	51.1	79.1	82.1	84.5	87.4	87.4	89.0	89.0	89.0	89.1	89.5	89.5	89.6	89.6	89.6	90.0
≥ 900	51.6	79.8	83.0	85.7	88.6	88.6	90.1	90.1	90.1	90.2	90.6	90.6	90.7	90.7	90.7	91.1
≥ 800	52.0	80.4	83.9	86.7	90.0	90.0	91.5	91.5	91.5	91.6	92.0	92.0	92.1	92.1	92.1	92.5
≥ 700	52.0	81.0	84.4	87.2	90.5	90.5	92.1	92.1	92.1	92.3	92.6	92.6	92.8	92.8	92.9	93.3
≥ 600	52.0	81.0	84.4	87.3	90.6	90.6	92.3	92.3	92.3	92.4	92.8	92.8	93.0	93.0	93.3	93.7
≥ 500	52.0	81.3	85.2	88.5	91.9	91.9	93.8	93.9	93.9	94.0	94.4	94.4	94.7	94.7	94.9	95.3
≥ 400	52.0	81.5	85.3	89.0	92.9	93.0	95.8	96.1	96.1	96.2	96.7	96.7	97.0	97.0	97.2	97.6
≥ 300	52.0	81.5	85.3	89.2	93.4	93.5	96.6	96.8	96.8	97.0	97.5	97.5	97.7	97.7	98.0	98.4
≥ 200	52.0	81.5	85.3	89.2	93.4	93.5	96.7	97.1	97.1	97.2	97.8	97.8	98.4	98.4	98.6	99.1
≥ 100	52.0	81.5	85.3	89.2	93.5	93.7	96.8	97.2	97.2	97.3	98.0	98.0	98.6	98.6	98.9	99.6
≥ 0	52.0	81.5	85.3	89.2	93.5	93.7	96.8	97.2	97.2	97.3	98.0	98.0	98.7	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 788

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639U (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	24.2	36.2	36.9	37.9	39.3	39.6	40.4	40.9	40.9	41.2	41.4	41.4	41.7	41.7	41.9	42.2
≥ 20000	26.4	39.9	40.8	42.2	43.6	44.2	45.2	45.7	45.7	46.0	46.2	46.2	46.5	46.5	46.7	47.0
≥ 18000	26.5	40.0	40.9	42.3	43.7	44.3	45.3	45.8	45.8	46.1	46.3	46.3	46.6	46.6	46.8	47.1
≥ 16000	26.5	40.0	40.9	42.3	43.7	44.3	45.3	45.8	45.8	46.1	46.3	46.3	46.6	46.6	46.8	47.1
≥ 14000	26.5	40.0	40.9	42.3	43.7	44.3	45.3	45.8	45.8	46.1	46.3	46.3	46.6	46.6	46.8	47.1
≥ 12000	27.0	40.8	41.7	43.1	44.4	45.1	46.1	46.6	46.6	46.8	47.1	47.1	47.3	47.3	47.6	47.9
≥ 10000	28.5	43.3	44.3	45.8	47.2	47.9	49.0	49.6	49.6	49.9	50.1	50.1	50.4	50.4	50.6	51.0
≥ 9000	28.7	43.4	44.4	46.0	47.3	48.0	49.1	49.7	49.7	50.0	50.3	50.3	50.5	50.5	50.8	51.1
≥ 8000	29.3	44.6	45.7	47.5	48.9	49.5	50.6	51.4	51.4	51.6	51.9	51.9	52.1	52.1	52.4	52.8
≥ 7000	30.7	46.1	47.2	49.0	50.4	51.0	52.1	52.9	52.9	53.2	53.4	53.4	53.7	53.7	53.9	54.3
≥ 6000	31.3	47.0	48.2	50.0	51.4	52.0	53.2	54.0	54.0	54.3	54.5	54.5	54.8	54.9	55.2	55.6
≥ 5000	32.6	49.5	50.9	52.7	54.0	54.7	55.8	56.7	56.7	56.9	57.2	57.2	57.4	57.6	57.8	58.3
≥ 4500	33.7	51.5	53.0	54.8	56.4	57.1	58.2	59.3	59.3	59.6	59.8	59.8	60.1	60.2	60.6	61.1
≥ 4000	34.5	52.4	53.9	55.7	57.3	58.1	59.2	60.4	60.4	60.6	60.9	60.9	61.1	61.2	61.6	62.1
≥ 3500	35.9	55.6	57.6	59.7	61.5	62.4	63.5	64.6	64.6	64.9	65.2	65.2	65.4	65.5	65.9	66.4
≥ 3000	38.1	59.1	61.2	63.4	65.3	66.2	67.3	68.6	68.6	68.8	69.1	69.1	69.3	69.4	69.8	70.3
≥ 2500	40.5	62.5	64.9	67.3	69.3	70.2	71.6	73.0	73.0	73.2	73.5	73.5	73.7	73.9	74.2	74.7
≥ 2000	42.7	65.8	68.6	71.0	73.0	74.0	75.4	76.8	76.8	77.0	77.3	77.3	77.5	77.7	78.0	78.5
≥ 1800	43.1	66.4	69.2	71.6	73.6	74.6	76.0	77.4	77.4	77.7	77.9	77.9	78.2	78.3	78.7	79.2
≥ 1500	44.4	68.9	72.0	74.4	76.8	77.8	79.3	80.8	80.8	81.1	81.3	81.3	81.6	81.7	82.1	82.6
≥ 1200	45.1	70.7	73.7	76.1	78.7	79.8	81.3	82.8	82.8	83.1	83.3	83.3	83.6	83.7	84.1	84.6
≥ 1000	46.0	73.7	76.8	79.3	81.8	83.2	84.7	86.2	86.2	86.6	86.9	86.9	87.1	87.2	87.6	88.1
≥ 900	46.0	73.9	76.9	79.7	82.3	83.7	85.2	86.7	86.7	87.1	87.4	87.4	87.6	87.8	88.1	88.6
≥ 800	46.2	74.6	77.7	80.7	83.5	85.0	86.5	88.0	88.0	88.4	88.6	88.6	88.9	89.0	89.4	89.9
≥ 700	46.3	75.1	78.5	81.6	84.6	86.1	87.6	89.3	89.3	89.6	90.0	90.0	90.3	90.4	90.8	91.3
≥ 600	46.3	75.5	79.0	82.4	85.6	87.1	88.8	90.5	90.7	91.2	91.5	91.5	91.9	92.0	92.4	92.9
≥ 500	46.3	76.0	79.7	83.3	87.1	89.1	90.9	92.9	93.1	93.7	94.1	94.1	94.4	94.6	94.9	95.5
≥ 400	46.3	76.1	79.9	83.6	87.8	90.0	92.2	94.3	94.6	95.6	96.2	96.2	96.6	96.8	97.2	97.7
≥ 300	46.3	76.1	79.9	83.6	87.9	90.3	92.4	94.6	94.9	96.0	96.7	96.7	97.2	97.5	97.9	98.4
≥ 200	46.3	76.1	79.9	83.6	88.0	90.4	92.6	94.8	95.2	96.2	97.1	97.1	97.9	98.1	98.6	99.1
≥ 100	46.3	76.1	79.9	83.6	88.0	90.4	92.6	94.8	95.2	96.2	97.1	97.1	98.0	98.2	98.7	99.6
≥ 0	46.3	76.1	79.9	83.6	88.0	90.4	92.6	94.8	95.2	96.2	97.1	97.1	98.0	98.2	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 792

USAF ETAC FORM JUL 84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
14639	PHELPS-COLLINS/ALPENA MI	75-81	SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST) 0900-1100

CEILING FEET	VISIBILITY (STATUTE MILES) ≥10	≥6	≥5	≥4	≥3	≥2 7/8	≥2	≥1 7/8	≥1 3/4	≥1	≥3/4	≥5/8	≥1/2	≥3/8	≥1/4	≥0
NO CEILING	26.8	37.9	38.8	39.5	40.3	40.4	40.6	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥ 20000	28.9	41.9	43.2	44.1	44.9	45.0	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 18000	28.9	41.9	43.2	44.1	44.9	45.0	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 16000	28.9	41.9	43.2	44.1	44.9	45.0	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 14000	28.9	42.2	43.5	44.4	45.2	45.3	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 12000	29.3	42.6	43.9	44.8	45.5	45.7	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 10000	31.0	45.4	46.8	47.7	48.6	48.8	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 9000	31.1	45.5	47.0	47.9	48.8	48.9	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 8000	32.9	48.1	49.5	50.5	51.4	51.5	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 7000	33.2	48.5	49.9	50.8	51.9	52.0	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 6000	34.8	50.1	51.6	52.5	53.5	53.7	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 5000	35.4	52.3	53.9	55.0	56.1	56.3	56.6	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 4500	35.7	53.3	55.1	56.3	57.5	57.7	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 4000	35.7	53.9	55.7	57.0	58.3	58.5	58.8	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 3500	37.0	55.9	57.8	59.2	60.8	60.9	61.3	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 3000	38.2	57.9	60.1	61.5	63.1	63.2	63.6	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 2500	41.0	62.8	65.0	66.7	68.4	68.8	69.2	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 2000	44.4	67.6	69.9	71.7	73.4	73.8	74.2	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 1800	45.9	69.5	71.9	73.7	75.4	75.7	76.1	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 1500	48.3	74.2	76.5	78.8	80.6	81.0	81.4	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 1200	49.2	76.8	79.1	81.4	83.6	84.0	84.4	84.6	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1000	49.8	78.6	81.2	83.6	86.5	86.8	87.2	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 900	50.6	79.5	82.2	84.6	87.6	88.0	88.4	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 800	50.9	80.8	83.6	86.1	89.3	89.7	90.2	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 700	51.4	82.3	85.4	88.0	91.5	92.1	92.8	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 600	51.5	82.6	85.8	88.4	92.3	92.9	93.7	94.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	51.5	83.4	86.7	89.3	93.4	94.5	95.6	96.4	96.4	96.9	97.0	97.0	97.0	97.0	97.0	97.0
≥ 400	51.5	83.5	86.8	89.4	93.5	95.1	96.9	97.8	97.8	98.3	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	51.6	83.6	87.0	89.5	93.7	95.4	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	51.6	83.6	87.0	89.7	93.9	95.6	97.4	98.5	98.5	99.4	99.6	99.6	99.7	99.7	99.7	99.7
≥ 100	51.6	83.6	87.0	89.7	93.9	95.6	97.4	98.5	98.5	99.4	99.6	99.6	99.7	99.7	99.7	99.9
≥ 0	51.6	83.6	87.0	89.7	93.9	95.6	97.4	98.5	98.5	99.4	99.6	99.6	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 775

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST): 1200-1400

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING	28.6	40.8	41.2	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	31.5	46.0	46.4	47.0	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	31.6	46.1	46.5	47.2	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 16000	31.6	46.1	46.5	47.2	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 14000	31.6	46.1	46.5	47.2	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 12000	32.1	47.0	47.4	48.0	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 10000	33.5	49.6	49.9	50.7	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 9000	33.6	49.8	50.2	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
≥ 8000	35.4	52.1	52.5	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 7000	36.3	53.2	53.6	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 6000	36.8	54.1	54.6	55.4	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 5000	38.1	55.5	56.0	56.9	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 4500	39.4	58.3	58.9	59.8	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 4000	40.6	60.4	61.1	62.1	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 3500	43.7	64.5	65.2	66.2	67.0	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3000	45.4	68.4	69.2	70.2	70.9	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 2500	49.6	74.2	75.0	76.1	77.0	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 2000	52.7	78.9	79.6	80.8	81.8	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 1800	53.5	80.2	80.9	82.0	83.1	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 1500	55.9	83.8	84.7	86.3	87.4	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1200	57.0	86.0	86.9	88.6	89.6	90.0	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 1000	57.8	87.7	88.6	90.5	91.7	92.0	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 900	58.0	88.0	89.0	90.9	92.0	92.4	92.8	92.9	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 800	58.4	88.9	90.0	92.0	93.4	93.8	94.2	94.4	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 700	58.7	89.4	91.0	93.3	94.8	95.3	95.8	96.1	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 600	58.7	89.4	91.0	93.3	94.8	95.4	96.1	96.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 500	58.7	89.6	91.3	93.6	95.2	95.8	97.1	97.6	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	58.7	89.6	91.3	93.8	95.4	96.1	97.5	98.2	98.4	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	58.7	89.6	91.3	93.8	95.4	96.2	97.6	98.5	98.6	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	58.7	89.6	91.3	93.8	95.4	96.2	97.6	98.5	98.6	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	58.7	89.6	91.3	93.8	95.4	96.2	97.6	98.5	98.6	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	58.7	89.6	91.3	93.8	95.4	96.2	97.6	98.5	98.6	99.5	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 791

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	28.1	42.7	42.9	43.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 20000	32.1	48.4	48.8	48.9	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 18000	32.1	48.4	48.8	48.9	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 16000	32.1	48.4	48.8	48.9	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 14000	32.2	48.9	49.3	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 12000	32.3	49.3	49.7	49.8	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 10000	34.0	51.2	51.6	51.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 9000	34.0	51.2	51.6	51.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 8000	35.8	53.5	53.9	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
≥ 7000	36.2	54.1	54.5	54.8	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	36.3	54.4	54.8	55.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 5000	38.1	57.3	58.0	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 4500	39.6	60.0	60.6	61.3	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4000	42.2	62.5	63.2	63.8	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 3500	44.8	65.9	66.8	67.4	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 3000	49.2	71.7	72.9	73.5	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 2500	53.1	77.2	78.3	79.2	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 2000	55.7	81.3	82.7	83.7	84.1	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	56.1	82.0	83.4	84.6	85.0	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 1500	58.1	85.5	87.1	88.5	88.9	89.4	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200	59.0	86.9	88.7	90.1	90.4	91.1	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1000	60.1	88.3	90.3	91.7	92.2	92.9	93.2	93.4	93.4	93.6	93.8	93.8	93.8	93.8	93.8	93.8
≥ 900	60.1	88.3	90.3	92.0	92.6	93.2	93.6	93.8	93.8	94.0	94.1	94.1	94.3	94.3	94.3	94.3
≥ 800	60.3	88.4	90.4	92.1	92.9	93.5	94.0	94.1	94.1	94.4	94.5	94.5	94.6	94.6	94.6	94.6
≥ 700	60.3	88.5	90.6	92.4	93.2	93.9	94.4	94.5	94.5	94.8	94.9	94.9	95.0	95.0	95.0	95.0
≥ 600	60.3	88.8	90.8	92.6	94.0	94.8	95.3	95.7	95.7	96.1	96.2	96.2	96.3	96.3	96.3	96.3
≥ 500	60.3	89.2	91.2	93.1	94.8	95.7	96.9	97.3	97.3	97.8	98.0	98.0	98.1	98.1	98.1	98.1
≥ 400	60.3	89.2	91.2	93.1	94.9	96.1	97.5	98.6	98.6	99.1	99.2	99.2	99.4	99.4	99.4	99.4
≥ 300	60.3	89.2	91.2	93.4	95.2	96.3	97.7	98.9	98.9	99.6	99.7	99.7	99.9	99.9	99.9	99.9
≥ 200	60.3	89.2	91.2	93.4	95.2	96.3	97.7	99.0	99.0	99.7	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	60.3	89.2	91.2	93.4	95.2	96.3	97.7	99.0	99.0	99.7	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	60.3	89.2	91.2	93.4	95.2	96.3	97.7	99.0	99.0	99.7	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 785

USAF ETAC FORM NO. 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]E39	PHELPS-COLLINS/ALPENA MI	73-81	SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): 1800-2000

CEILING FEET	VISIBILITY STATUTE MILES ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	32.6	47.8	49.2	49.8	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000	36.2	53.0	54.8	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 18000	36.2	53.0	54.8	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 6000	36.2	53.0	54.8	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 4000	36.2	53.1	54.9	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 2000	37.1	55.1	56.9	57.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 10000	38.7	57.4	59.2	59.8	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 9000	38.7	57.4	59.2	59.8	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	39.8	59.7	61.6	62.2	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 7000	40.4	60.5	62.4	63.0	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 6000	40.9	61.2	63.1	63.8	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 5000	42.5	63.8	65.8	66.4	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 4500	45.0	66.3	68.3	68.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4000	45.8	67.4	69.5	70.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 3500	47.5	69.8	72.0	72.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 3000	51.1	74.5	76.9	77.6	78.8	78.8	78.8	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 2500	53.6	78.7	81.5	82.6	83.9	84.0	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2000	55.0	81.7	84.5	86.1	87.5	87.8	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.3
≥ 1800	55.1	82.0	85.0	86.6	88.0	88.5	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	89.0	89.0
≥ 1500	56.5	84.5	87.8	89.5	90.9	91.4	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.9	91.9
≥ 1200	57.2	85.4	88.7	90.4	91.9	92.4	92.6	92.6	92.6	92.8	92.8	92.8	92.8	92.8	92.9	92.9
≥ 1000	57.3	85.9	89.2	91.1	92.8	93.4	93.7	93.7	93.7	93.8	93.9	93.9	93.9	93.9	94.0	94.0
≥ 900	57.3	85.9	89.4	91.4	93.0	93.7	93.9	94.0	94.0	94.2	94.3	94.3	94.3	94.3	94.4	94.4
≥ 800	57.5	86.3	89.9	92.0	93.8	94.4	94.7	94.8	94.8	94.9	95.2	95.2	95.2	95.2	95.3	95.3
≥ 700	57.5	86.3	89.9	92.0	94.2	94.8	95.1	95.2	95.2	95.3	95.6	95.6	95.6	95.6	95.7	95.7
≥ 600	57.5	86.3	90.0	92.1	94.3	95.1	95.8	95.9	95.9	96.1	96.3	96.3	96.3	96.3	96.5	96.5
≥ 500	57.5	86.3	90.4	92.6	94.9	95.7	96.7	96.8	96.8	97.0	97.2	97.2	97.2	97.2	97.3	97.3
≥ 400	57.5	86.3	90.5	93.2	95.8	96.7	98.2	98.4	98.4	98.7	99.1	99.1	99.1	99.1	99.2	99.2
≥ 300	57.5	86.3	90.5	93.2	95.8	96.7	98.2	98.6	98.6	99.0	99.5	99.5	99.5	99.5	99.6	99.6
≥ 200	57.5	86.3	90.5	93.2	95.8	96.7	98.2	98.7	98.7	99.1	99.6	99.6	99.6	99.6	99.7	99.7
≥ 100	57.5	86.3	90.5	93.2	95.8	96.7	98.2	98.7	98.7	99.2	99.7	99.7	99.7	99.7	99.9	99.9
≥ 0	57.5	86.3	90.5	93.2	95.8	96.7	98.2	98.7	98.7	99.2	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 789

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	36.0	52.5	54.2	54.6	54.8	54.8	54.8	54.8	54.8	55.1	55.2	55.2	55.3	55.3	55.5	55.5
≥ 20000	36.5	53.9	55.8	56.2	56.5	56.5	56.5	56.5	56.5	56.7	56.9	56.9	57.0	57.0	57.1	57.1
≥ 18000	36.5	53.9	55.8	56.2	56.5	56.5	56.5	56.5	56.5	56.7	56.9	56.9	57.0	57.0	57.1	57.1
≥ 16000	36.5	53.9	55.8	56.2	56.5	56.5	56.5	56.5	56.5	56.7	56.9	56.9	57.0	57.0	57.1	57.1
≥ 14000	36.7	54.2	56.1	56.5	56.7	56.7	56.7	56.7	56.7	57.0	57.1	57.1	57.2	57.2	57.4	57.4
≥ 12000	37.6	55.5	57.5	57.9	58.1	58.1	58.1	58.1	58.1	58.4	58.5	58.5	58.6	58.6	58.8	58.8
≥ 10000	38.8	57.2	59.4	59.8	60.2	60.2	60.2	60.2	60.2	60.4	60.5	60.5	60.7	60.7	60.8	60.8
≥ 9000	39.0	57.4	59.5	59.9	60.3	60.3	60.3	60.3	60.3	60.5	60.7	60.7	60.8	60.8	60.9	60.9
≥ 8000	39.2	58.0	60.2	60.5	61.2	61.2	61.2	61.2	61.2	61.4	61.5	61.5	61.7	61.7	61.8	61.8
≥ 7000	39.7	58.6	61.0	61.4	62.1	62.1	62.1	62.1	62.1	62.3	62.4	62.4	62.6	62.6	62.7	62.7
≥ 6000	41.2	61.2	63.6	64.0	64.6	64.6	64.6	64.6	64.6	64.8	65.0	65.0	65.1	65.1	65.2	65.2
≥ 5000	42.6	63.8	66.4	66.9	67.5	67.5	67.5	67.5	67.5	67.8	67.9	67.9	68.0	68.0	68.1	68.1
≥ 4500	44.4	67.0	69.7	70.3	70.9	70.9	70.9	70.9	70.9	71.2	71.3	71.3	71.4	71.4	71.6	71.6
≥ 4000	45.1	68.3	70.9	71.6	72.2	72.2	72.2	72.2	72.2	72.5	72.6	72.6	72.7	72.7	72.8	72.8
≥ 3500	47.7	71.3	74.0	74.7	75.4	75.4	75.4	75.4	75.4	75.6	75.8	75.8	75.9	75.9	76.0	76.0
≥ 3000	49.5	74.0	76.9	77.7	78.4	78.4	78.4	78.4	78.4	78.7	78.8	78.8	78.9	78.9	79.1	79.1
≥ 2500	51.6	78.6	81.6	82.9	83.6	83.6	83.6	83.6	83.6	83.9	84.0	84.0	84.1	84.1	84.3	84.3
≥ 2000	53.9	82.0	85.2	86.7	87.6	87.6	87.6	87.6	87.6	87.8	87.9	87.9	88.1	88.1	88.2	88.2
≥ 1800	54.3	82.7	85.9	87.4	88.3	88.3	88.3	88.3	88.3	88.6	88.7	88.7	88.8	88.8	89.0	89.0
≥ 1500	54.7	84.0	87.2	88.8	90.1	90.1	90.2	90.2	90.2	90.5	90.6	90.6	90.7	90.7	90.9	90.9
≥ 1200	54.9	84.3	87.6	89.5	90.7	90.7	91.0	91.0	91.0	91.2	91.4	91.4	91.5	91.5	91.6	91.6
≥ 1000	55.2	84.8	88.3	90.2	91.6	91.6	91.9	91.9	91.9	92.1	92.3	92.3	92.4	92.4	92.5	92.5
≥ 900	55.3	84.9	88.6	90.5	91.9	91.9	92.1	92.1	92.1	92.4	92.5	92.5	92.6	92.6	92.8	92.8
≥ 800	55.5	85.2	89.0	90.9	92.3	92.4	92.6	92.8	92.8	93.0	93.1	93.1	93.3	93.3	93.4	93.4
≥ 700	55.5	85.2	89.0	90.9	92.3	92.4	92.8	92.9	92.9	93.1	93.3	93.3	93.4	93.4	93.5	93.5
≥ 600	55.5	85.4	89.3	91.2	92.6	92.9	93.7	94.0	94.0	94.3	94.4	94.4	94.5	94.5	94.7	94.7
≥ 500	55.5	85.5	89.5	91.4	93.1	93.7	94.7	95.2	95.2	95.4	95.6	95.6	95.7	95.7	95.8	95.8
≥ 400	55.5	85.8	89.8	91.8	93.9	94.5	95.7	96.2	96.2	96.6	96.7	96.7	96.8	96.8	97.0	97.0
≥ 300	55.5	85.8	90.1	92.3	94.9	95.6	97.1	97.6	97.6	98.1	98.2	98.2	98.4	98.4	98.5	98.5
≥ 200	55.5	85.8	90.1	92.3	94.9	95.6	97.3	97.8	98.0	98.5	98.6	98.6	98.7	98.7	99.0	99.0
≥ 100	55.5	85.8	90.1	92.3	94.9	95.7	97.5	98.1	98.2	98.7	98.9	98.9	99.0	99.0	99.2	99.6
≥ 0	55.5	85.8	90.1	92.3	94.9	95.7	97.5	98.1	98.2	98.7	98.9	98.9	99.0	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 788

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7.639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	30.7	44.5	45.6	46.4	47.1	47.2	47.4	47.5	47.5	47.6	47.7	47.7	47.7	47.7	47.9	47.9
≥ 20000	32.8	48.0	49.2	50.2	51.0	51.1	51.3	51.4	51.4	51.5	51.6	51.6	51.6	51.6	51.7	51.8
≥ 18000	32.9	48.1	49.3	50.2	51.0	51.1	51.3	51.4	51.4	51.6	51.6	51.6	51.7	51.7	51.7	51.8
≥ 16000	32.9	48.1	49.3	50.2	51.0	51.1	51.3	51.4	51.4	51.6	51.6	51.6	51.7	51.7	51.7	51.8
≥ 14000	32.9	48.2	49.4	50.3	51.2	51.2	51.5	51.6	51.6	51.7	51.8	51.8	51.8	51.8	51.9	51.9
≥ 12000	33.4	49.2	50.5	51.4	52.2	52.3	52.5	52.6	52.6	52.8	52.8	52.8	52.9	52.9	52.9	53.0
≥ 10000	34.9	51.4	52.7	53.7	54.6	54.7	55.0	55.1	55.1	55.2	55.3	55.3	55.3	55.3	55.4	55.5
≥ 9000	34.9	51.5	52.8	53.8	54.7	54.8	55.1	55.2	55.2	55.3	55.4	55.4	55.4	55.4	55.5	55.6
≥ 8000	36.1	53.1	54.5	55.5	56.5	56.6	56.8	57.0	57.0	57.1	57.2	57.2	57.2	57.2	57.3	57.4
≥ 7000	36.8	54.0	55.4	56.4	57.4	57.5	57.8	57.9	57.9	58.0	58.1	58.1	58.1	58.1	58.2	58.3
≥ 6000	37.6	55.3	56.8	57.8	58.8	58.9	59.2	59.3	59.3	59.5	59.5	59.5	59.6	59.6	59.6	59.8
≥ 5000	39.1	57.7	59.3	60.4	61.4	61.5	61.8	62.0	62.0	62.1	62.2	62.2	62.2	62.2	62.3	62.4
≥ 4500	40.5	59.9	61.6	62.7	63.9	64.0	64.3	64.5	64.5	64.6	64.7	64.7	64.8	64.8	64.9	65.0
≥ 4000	41.4	61.3	62.9	64.1	65.3	65.4	65.8	66.0	66.0	66.1	66.2	66.2	66.2	66.3	66.3	66.5
≥ 3500	43.3	64.2	66.0	67.3	68.5	68.7	69.0	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.6	69.7
≥ 3000	45.4	67.6	69.6	70.9	72.2	72.3	72.7	72.9	72.9	73.1	73.1	73.1	73.2	73.2	73.3	73.4
≥ 2500	48.3	72.2	74.4	75.9	77.3	77.5	77.9	78.1	78.1	78.3	78.4	78.4	78.4	78.4	78.5	78.6
≥ 2000	50.5	75.7	78.1	79.7	81.2	81.4	81.9	82.1	82.1	82.3	82.4	82.4	82.4	82.4	82.5	82.7
≥ 1800	51.2	76.7	79.0	80.7	82.2	82.5	82.9	83.2	83.2	83.3	83.4	83.4	83.4	83.5	83.5	83.7
≥ 1500	52.6	79.5	82.0	83.9	85.5	85.9	86.4	86.6	86.6	86.8	86.9	86.9	86.9	86.9	87.0	87.2
≥ 1200	53.4	81.1	83.7	85.6	87.3	87.7	88.2	88.5	88.5	88.7	88.8	88.8	88.8	88.9	89.0	89.1
≥ 1000	54.0	82.6	85.3	87.3	89.2	89.6	90.3	90.6	90.6	90.9	91.0	91.0	91.1	91.1	91.2	91.3
≥ 900	54.2	82.8	85.6	87.8	89.7	90.2	90.8	91.2	91.2	91.5	91.6	91.6	91.7	91.7	91.8	91.9
≥ 800	54.5	83.5	86.4	88.7	90.8	91.3	92.0	92.4	92.4	92.7	92.8	92.8	92.9	92.9	93.0	93.1
≥ 700	54.6	83.9	87.0	89.3	91.6	92.2	92.9	93.3	93.3	93.6	93.8	93.8	93.9	93.9	94.0	94.1
≥ 600	54.6	84.0	87.2	89.7	92.1	92.7	93.6	94.2	94.2	94.5	94.7	94.7	94.8	94.8	95.0	95.1
≥ 500	54.6	84.4	87.7	90.3	93.0	93.7	95.0	95.6	95.6	96.1	96.2	96.2	96.3	96.4	96.5	96.6
≥ 400	54.6	84.5	87.8	90.6	93.6	94.5	96.1	96.9	97.0	97.5	97.8	97.8	97.9	97.9	98.0	98.2
≥ 300	54.6	84.5	87.9	90.8	93.9	94.8	96.6	97.5	97.5	98.2	98.5	98.5	98.7	98.7	98.8	99.0
≥ 200	54.6	84.5	87.9	90.8	93.9	94.9	96.7	97.7	97.8	98.4	98.8	98.8	99.1	99.1	99.3	99.4
≥ 100	54.6	84.5	87.9	90.8	93.9	94.9	96.7	97.8	97.9	98.6	98.9	98.9	99.3	99.3	99.4	99.8
≥ 0	54.6	84.5	87.9	90.8	93.9	94.9	96.7	97.8	97.9	98.6	98.9	98.9	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6285

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST: 0000-0200

CEILING FEET	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	26.7	39.7	41.7	43.2	43.7	43.7	44.0	44.1	44.1	44.3	44.6	44.6	45.2	45.2	45.6	46.2
≥ 20000	27.6	42.1	44.1	45.7	46.2	46.2	46.5	46.6	46.6	46.8	47.1	47.1	47.7	47.7	48.1	48.7
≥ 18000	27.6	42.1	44.1	45.7	46.2	46.2	46.5	46.6	46.6	46.8	47.1	47.1	47.7	47.7	48.1	48.7
≥ 16000	27.6	42.1	44.1	45.7	46.2	46.2	46.5	46.6	46.6	46.8	47.1	47.1	47.7	47.7	48.1	48.7
≥ 14000	27.6	42.2	44.2	45.8	46.3	46.3	46.6	46.7	46.7	46.9	47.2	47.2	47.8	47.8	48.2	48.8
≥ 12000	27.8	42.7	44.7	46.3	46.8	46.8	47.1	47.2	47.2	47.4	47.7	47.7	48.3	48.3	48.7	49.3
≥ 10000	28.6	43.6	45.6	47.2	47.7	47.7	47.9	48.1	48.1	48.3	48.6	48.6	49.2	49.2	49.6	50.2
≥ 9000	28.9	43.8	45.8	47.4	47.9	47.9	48.2	48.3	48.3	48.6	48.8	48.8	49.4	49.4	49.8	50.4
≥ 8000	29.5	44.5	46.5	48.1	48.6	48.6	48.8	48.9	48.9	49.2	49.4	49.4	50.1	50.1	50.4	51.1
≥ 7000	30.4	45.5	47.6	49.2	49.7	49.7	49.9	50.1	50.1	50.3	50.6	50.6	51.2	51.2	51.6	52.2
≥ 6000	31.4	46.8	48.9	50.6	51.1	51.1	51.4	51.6	51.6	51.8	52.1	52.1	52.7	52.7	53.1	53.7
≥ 5000	33.3	49.3	51.4	53.1	53.9	53.9	54.3	54.4	54.4	54.7	54.9	54.9	55.5	55.5	55.9	56.5
≥ 4500	35.9	54.2	56.3	57.9	58.8	58.8	59.2	59.3	59.3	59.5	59.8	59.8	60.4	60.4	60.8	61.4
≥ 4000	36.4	55.0	57.2	58.8	59.7	59.7	60.0	60.1	60.1	60.4	60.6	60.6	61.3	61.3	61.6	62.3
≥ 3500	38.4	58.7	60.8	62.4	63.3	63.3	63.6	63.8	63.8	64.0	64.3	64.3	64.9	64.9	65.3	65.9
≥ 3000	40.4	62.3	64.4	66.0	66.9	66.9	67.2	67.4	67.4	67.6	67.9	67.9	68.5	68.5	68.9	69.5
≥ 2500	45.6	70.0	72.1	73.8	74.8	74.8	75.2	75.5	75.5	75.7	76.0	76.0	76.6	76.6	77.0	77.6
≥ 2000	48.1	73.6	75.8	77.6	78.6	78.6	79.0	79.3	79.3	79.6	79.8	79.8	80.4	80.4	80.8	81.4
≥ 1800	48.6	74.3	76.6	78.6	79.6	79.6	80.0	80.3	80.3	80.6	80.8	80.8	81.4	81.4	81.8	82.4
≥ 1500	50.3	79.3	81.9	84.4	85.7	85.7	86.2	86.6	86.6	86.8	87.0	87.0	87.7	87.7	88.0	88.7
≥ 1200	51.1	81.1	83.8	86.4	87.7	87.8	88.3	88.7	88.7	89.0	89.3	89.3	89.9	89.9	90.3	90.9
≥ 1000	51.4	82.7	85.9	88.5	90.0	90.2	90.9	91.3	91.3	91.7	91.9	91.9	92.5	92.5	92.9	93.5
≥ 900	51.4	82.8	86.1	89.0	90.5	90.7	91.4	91.8	91.8	92.2	92.4	92.4	93.0	93.0	93.4	94.0
≥ 800	51.6	83.1	86.3	89.3	90.8	91.0	92.0	92.4	92.4	92.8	93.0	93.0	93.6	93.6	94.0	94.6
≥ 700	51.6	83.4	86.8	89.8	91.3	91.7	92.7	93.0	93.0	93.4	93.6	93.6	94.3	94.3	94.6	95.3
≥ 600	51.6	83.6	86.9	90.2	91.7	92.0	93.0	93.4	93.4	93.8	94.0	94.0	94.6	94.6	95.0	95.6
≥ 500	51.7	83.7	87.0	90.3	92.0	92.4	93.4	93.8	93.8	94.1	94.4	94.4	95.0	95.0	95.4	96.0
≥ 400	51.7	83.7	87.3	90.7	92.4	92.8	93.9	94.3	94.3	94.6	94.9	94.9	95.5	95.5	95.9	96.5
≥ 300	51.7	83.7	87.3	90.8	92.7	93.0	94.1	94.5	94.5	95.1	95.4	95.4	96.0	96.0	96.4	97.0
≥ 200	51.7	83.7	87.3	90.8	92.7	93.0	94.1	94.6	94.6	95.4	95.6	95.6	96.3	96.3	96.6	97.3
≥ 100	51.7	83.7	87.3	90.8	92.7	93.0	94.3	95.0	95.0	95.9	96.3	96.3	97.0	97.0	97.8	99.1
≥ 0	51.7	83.7	87.3	90.8	92.7	93.0	94.3	95.0	95.0	95.9	96.3	96.3	97.0	97.0	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS 803

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

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): 0300-0900

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	24.1	39.1	40.8	41.7	42.4	42.8	43.8	43.8	43.9	44.3	44.8	44.8	45.3	45.3	45.3	45.8
≥ 20000	25.2	40.9	42.7	43.5	44.3	44.7	45.6	45.6	45.8	46.1	46.6	46.6	47.1	47.1	47.1	47.6
≥ 18000	25.2	40.9	42.7	43.5	44.3	44.7	45.6	45.6	45.8	46.1	46.6	46.6	47.1	47.1	47.1	47.6
≥ 16000	25.2	40.9	42.7	43.5	44.3	44.7	45.6	45.6	45.8	46.1	46.6	46.6	47.1	47.1	47.1	47.6
≥ 14000	25.2	40.9	42.7	43.5	44.3	44.7	45.6	45.6	45.8	46.1	46.6	46.6	47.1	47.1	47.1	47.6
≥ 12000	25.2	41.4	43.2	44.0	44.8	45.1	46.1	46.1	46.3	46.6	47.1	47.1	47.6	47.6	47.6	48.1
≥ 10000	25.6	41.8	43.5	44.4	45.1	45.5	46.5	46.5	46.6	47.0	47.5	47.5	48.0	48.0	48.0	48.5
≥ 9000	26.0	42.3	44.0	44.9	45.6	46.0	47.0	47.0	47.1	47.5	48.0	48.0	48.5	48.5	48.5	49.0
≥ 8000	27.0	43.3	45.0	45.9	46.6	47.0	48.0	48.0	48.1	48.5	49.0	49.0	49.5	49.5	49.5	50.0
≥ 7000	28.1	44.7	46.4	47.4	48.1	48.5	49.5	49.5	49.6	50.0	50.5	50.5	51.0	51.0	51.0	51.5
≥ 6000	29.4	46.1	48.1	49.4	50.1	50.5	51.5	51.5	51.6	52.0	52.5	52.5	53.0	53.0	53.0	53.5
≥ 5000	31.2	48.6	50.7	52.2	53.1	53.5	54.5	54.5	54.6	55.0	55.5	55.5	56.1	56.1	56.1	56.6
≥ 4500	32.7	51.4	53.6	55.1	56.0	56.3	57.3	57.3	57.6	58.3	58.8	58.8	59.5	59.5	59.5	60.0
≥ 4000	32.8	52.4	54.6	56.1	57.0	57.3	58.5	58.5	58.7	59.6	60.1	60.1	60.7	60.7	60.7	61.2
≥ 3500	35.3	55.6	57.8	59.3	60.2	60.6	61.7	61.7	61.9	62.8	63.3	63.3	63.9	63.9	63.9	64.4
≥ 3000	38.4	60.2	62.8	64.7	65.7	66.0	67.2	67.2	67.4	68.3	68.8	68.8	69.4	69.4	69.4	69.9
≥ 2500	42.3	67.0	69.8	71.8	72.8	73.3	74.4	74.4	74.6	75.5	76.0	76.0	76.6	76.6	76.6	77.1
≥ 2000	45.6	72.3	75.4	77.7	78.9	79.4	80.6	80.6	81.0	81.8	82.5	82.5	83.1	83.1	83.1	83.6
≥ 1800	47.0	73.8	76.9	79.2	80.3	80.8	82.2	82.2	82.6	83.5	84.1	84.1	84.7	84.7	84.7	85.2
≥ 1500	48.3	76.5	79.7	82.7	83.8	84.3	85.7	85.7	86.1	86.9	87.6	87.6	88.2	88.2	88.2	88.7
≥ 1200	49.0	78.6	81.8	85.0	86.2	86.7	88.1	88.1	88.4	89.3	89.9	89.9	90.5	90.5	90.5	91.0
≥ 1000	49.4	79.7	83.1	86.6	87.9	88.4	90.0	90.0	90.4	91.4	92.0	92.0	92.7	92.7	92.7	93.2
≥ 900	49.4	80.0	83.5	86.9	88.3	88.8	90.4	90.4	90.8	91.8	92.4	92.4	93.0	93.0	93.0	93.5
≥ 800	49.4	80.2	83.8	87.3	89.1	89.7	91.4	91.5	91.9	92.9	93.5	93.5	94.2	94.2	94.2	94.7
≥ 700	49.5	80.6	84.2	87.7	89.7	90.3	92.0	92.2	92.5	93.5	94.2	94.2	94.8	94.8	94.8	95.3
≥ 600	49.6	81.0	84.7	88.2	90.2	90.8	92.5	92.8	93.2	94.2	94.8	94.8	95.4	95.4	95.4	95.9
≥ 500	49.6	81.0	84.7	88.7	90.8	91.4	93.4	93.7	94.0	95.0	95.6	95.6	96.3	96.3	96.3	96.8
≥ 400	49.6	81.0	84.8	88.8	91.0	91.7	93.9	94.3	94.7	95.8	96.4	96.4	97.0	97.0	97.0	97.5
≥ 300	49.6	81.0	84.8	88.8	91.0	91.7	94.0	94.4	94.8	96.1	96.8	96.8	97.4	97.4	97.4	97.9
≥ 200	49.6	81.0	84.8	88.8	91.0	91.7	94.4	94.9	95.3	96.6	97.3	97.3	97.9	97.9	98.0	98.5
≥ 100	49.6	81.0	84.8	88.8	91.0	91.7	94.4	94.9	95.3	96.6	97.3	97.3	98.1	98.1	98.5	99.1
≥ 0	49.6	81.0	84.8	88.8	91.0	91.7	94.4	94.9	95.3	96.6	97.3	97.3	98.1	98.1	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 804

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	20.5	32.3	33.6	35.0	36.3	36.7	37.4	38.0	38.1	38.8	39.2	39.2	39.2	39.6	40.1	40.3
≥ 20000	22.4	35.9	37.3	38.6	40.1	40.5	41.2	41.8	41.9	42.5	43.0	43.0	43.0	43.4	43.9	44.1
≥ 18000	22.5	36.1	37.4	38.8	40.2	40.6	41.3	41.9	42.1	42.7	43.2	43.2	43.2	43.5	44.0	44.3
≥ 16000	22.5	36.1	37.4	38.8	40.2	40.6	41.3	41.9	42.1	42.7	43.2	43.2	43.2	43.5	44.0	44.3
≥ 14000	22.5	36.1	37.5	38.9	40.3	40.7	41.4	42.1	42.2	42.8	43.3	43.3	43.3	43.6	44.1	44.4
≥ 12000	23.1	36.8	38.4	39.7	41.3	41.7	42.4	43.0	43.2	43.8	44.3	44.3	44.3	44.6	45.1	45.4
≥ 10000	24.3	38.3	39.9	41.2	42.8	43.2	43.9	44.6	44.7	45.4	45.8	45.8	45.8	46.2	46.7	46.9
≥ 9000	24.4	38.9	40.5	41.8	43.4	43.8	44.5	45.2	45.4	46.0	46.5	46.5	46.5	46.8	47.3	47.6
≥ 8000	25.1	39.9	41.4	42.8	44.5	45.0	45.8	46.7	46.8	47.4	47.9	47.9	48.0	48.4	49.0	49.3
≥ 7000	26.3	41.4	43.0	44.4	46.1	46.6	47.4	48.3	48.4	49.0	49.5	49.5	49.6	50.0	50.6	50.9
≥ 6000	27.5	42.9	44.5	45.8	47.6	48.0	49.0	49.9	50.0	50.6	51.3	51.3	51.5	51.8	52.4	52.7
≥ 5000	28.7	45.5	47.1	48.4	50.1	50.6	51.8	52.7	52.8	53.4	54.2	54.2	54.3	54.6	55.3	55.5
≥ 4500	30.9	47.9	49.6	51.0	52.7	53.2	54.4	55.3	55.4	56.0	56.8	56.8	57.0	57.3	57.9	58.3
≥ 4000	31.7	49.6	51.3	52.7	54.4	54.9	56.1	57.1	57.2	57.8	58.7	58.7	58.8	59.2	59.8	60.1
≥ 3500	33.4	52.9	54.9	56.2	58.1	58.6	59.8	60.8	60.9	61.5	62.3	62.3	62.5	62.8	63.4	63.8
≥ 3000	35.6	56.7	58.8	60.4	62.2	62.7	64.2	65.2	65.3	65.9	66.7	66.7	66.9	67.2	67.8	68.2
≥ 2500	38.1	61.0	63.1	65.3	67.4	67.8	69.3	70.4	70.5	71.1	72.0	72.0	72.1	72.5	73.2	73.6
≥ 2000	41.3	65.5	67.7	70.3	72.6	73.3	74.8	76.0	76.3	76.9	77.8	77.8	77.9	78.2	79.0	79.3
≥ 1800	42.5	67.5	69.7	72.2	74.6	75.3	76.8	78.0	78.2	78.9	79.7	79.7	79.8	80.2	80.9	81.3
≥ 1500	44.9	71.1	73.8	76.8	79.3	80.2	81.8	83.0	83.3	84.0	84.8	84.8	85.0	85.3	86.1	86.4
≥ 1200	45.6	72.2	74.9	77.9	80.8	81.7	83.4	84.6	84.8	85.7	86.6	86.6	86.7	87.0	87.8	88.1
≥ 1000	45.8	73.2	76.3	79.3	82.3	83.3	85.1	86.3	86.6	87.4	88.3	88.3	88.4	88.8	89.5	89.9
≥ 900	46.1	73.7	76.8	80.1	83.3	84.4	86.2	87.4	87.7	88.5	89.4	89.4	89.5	89.9	90.6	91.0
≥ 800	46.1	74.4	77.6	81.2	84.6	85.7	87.5	88.8	89.1	90.0	90.8	90.8	91.0	91.3	92.1	92.4
≥ 700	46.3	74.7	78.4	82.2	85.9	87.0	88.9	90.1	90.5	91.3	92.2	92.2	92.3	92.7	93.4	93.8
≥ 600	46.3	74.9	78.7	82.5	86.4	87.5	89.7	91.0	91.4	92.5	93.4	93.4	93.5	93.9	94.6	95.0
≥ 500	46.3	75.1	79.1	82.9	87.0	88.3	90.7	91.9	92.7	93.8	94.6	94.6	94.7	95.1	95.8	96.2
≥ 400	46.3	75.1	79.2	83.0	87.2	88.4	90.8	92.1	92.9	94.0	94.9	94.9	95.0	95.5	96.2	96.6
≥ 300	46.3	75.2	79.5	83.3	87.4	88.6	91.1	92.3	93.2	94.5	95.4	95.5	95.8	96.3	97.2	97.9
≥ 200	46.3	75.2	79.6	83.4	87.7	88.9	91.3	92.5	93.4	94.9	95.8	96.0	96.3	96.8	97.9	98.9
≥ 100	46.3	75.2	79.6	83.4	87.7	88.9	91.4	92.7	93.5	95.0	96.0	96.1	96.5	97.1	98.2	99.4
≥ 0	46.3	75.2	79.6	83.4	87.7	88.9	91.4	92.7	93.5	95.0	96.0	96.1	96.5	97.1	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 818

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

726391 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	21.7	32.7	33.8	34.4	34.8	35.2	35.3	35.3	35.4	35.5	35.7	35.7	35.7	35.7	35.7	35.7
≥ 20000	24.1	36.8	37.9	38.5	38.8	39.2	39.5	39.5	39.6	39.8	40.0	40.0	40.0	40.0	40.0	40.0
≥ 18000	24.5	37.1	38.4	39.0	39.3	39.7	40.0	40.0	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4
≥ 16000	24.5	37.1	38.4	39.0	39.3	39.7	40.0	40.0	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4
≥ 14000	24.8	37.4	38.6	39.2	39.7	40.1	40.3	40.3	40.4	40.7	40.8	40.8	40.8	40.8	40.8	40.8
≥ 12000	25.2	38.5	39.7	40.3	40.8	41.2	41.4	41.4	41.5	41.8	41.9	41.9	41.9	41.9	41.9	41.9
≥ 10000	26.3	40.6	42.0	42.6	43.3	43.6	43.9	43.9	44.0	44.2	44.4	44.4	44.4	44.4	44.4	44.4
≥ 9000	26.3	41.3	42.8	43.4	44.0	44.5	44.7	44.7	44.9	45.1	45.2	45.2	45.2	45.2	45.2	45.2
≥ 8000	27.8	43.1	44.6	45.3	46.4	47.1	47.3	47.3	47.4	47.8	47.9	47.9	47.9	47.9	47.9	47.9
≥ 7000	29.2	44.7	46.2	46.9	48.0	48.7	48.9	48.9	49.0	49.4	49.5	49.5	49.5	49.5	49.5	49.5
≥ 6000	29.9	45.7	47.2	47.9	49.0	49.6	49.9	49.9	50.0	50.4	50.5	50.5	50.5	50.5	50.5	50.5
≥ 5000	31.0	47.3	48.8	49.5	50.6	51.2	51.5	51.5	51.6	52.0	52.1	52.1	52.1	52.1	52.1	52.1
≥ 4500	32.4	48.8	50.2	51.1	52.3	52.9	53.2	53.2	53.3	53.7	53.8	53.8	53.8	53.8	53.8	53.8
≥ 4000	33.8	50.4	51.8	52.7	54.0	54.8	55.0	55.0	55.1	55.5	55.6	55.6	55.6	55.6	55.6	55.6
≥ 3500	35.7	53.8	55.4	56.4	58.0	58.7	58.9	58.9	59.1	59.4	59.6	59.6	59.7	59.7	59.7	59.7
≥ 3000	37.6	58.0	59.7	60.7	62.5	63.2	63.5	63.5	63.6	64.0	64.1	64.1	64.2	64.2	64.2	64.2
≥ 2500	40.9	63.1	65.2	66.3	68.3	69.0	69.2	69.4	69.5	70.0	70.1	70.1	70.2	70.2	70.2	70.2
≥ 2000	44.9	68.5	70.8	72.2	74.4	75.1	75.4	75.5	75.6	76.1	76.2	76.2	76.3	76.3	76.3	76.3
≥ 1800	46.6	71.1	73.5	74.9	77.1	77.8	78.1	78.2	78.3	78.8	78.9	78.9	79.0	79.0	79.0	79.0
≥ 1500	49.6	77.7	80.4	81.9	84.3	85.0	85.3	85.4	85.5	86.0	86.2	86.2	86.3	86.3	86.3	86.3
≥ 1200	50.6	79.4	82.5	84.1	86.6	87.4	87.6	87.7	87.9	88.5	88.6	88.6	88.7	88.7	88.7	88.7
≥ 1000	51.0	80.1	83.6	85.3	88.1	88.8	89.2	89.5	89.6	90.2	90.3	90.3	90.4	90.4	90.4	90.4
≥ 900	51.0	80.5	83.9	85.8	88.6	89.3	89.7	90.0	90.1	90.7	90.8	90.8	90.9	90.9	90.9	90.9
≥ 800	51.1	81.7	85.2	87.1	90.0	90.7	91.1	91.3	91.4	92.0	92.2	92.2	92.3	92.3	92.3	92.3
≥ 700	51.1	82.1	85.7	87.6	90.9	91.7	92.2	92.5	92.6	93.4	93.5	93.5	93.6	93.6	93.6	93.6
≥ 600	51.1	82.5	86.3	88.2	91.5	92.3	93.1	93.5	93.6	94.4	94.5	94.5	94.6	94.6	94.6	94.6
≥ 500	51.1	82.6	86.9	88.8	92.3	93.1	94.1	94.9	95.0	95.7	95.8	95.8	96.0	96.0	96.0	96.0
≥ 400	51.1	82.7	87.1	89.2	93.1	94.0	95.0	96.3	96.4	97.7	97.8	97.8	97.9	97.9	97.9	97.9
≥ 300	51.1	82.8	87.4	89.5	93.5	94.5	95.5	97.1	97.2	98.5	98.7	98.7	98.8	98.8	98.8	98.8
≥ 200	51.1	82.8	87.5	89.7	93.8	94.9	96.0	97.5	97.7	99.3	99.5	99.5	99.6	99.6	99.8	99.8
≥ 100	51.1	82.8	87.5	89.7	93.8	94.9	96.0	97.5	97.7	99.3	99.5	99.5	99.6	99.8	99.9	99.9
≥ 0	51.1	82.8	87.5	89.7	93.8	94.9	96.0	97.5	97.7	99.3	99.5	99.5	99.6	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 816

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	22.5	35.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 20000	25.5	37.8	38.1	38.3	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
≥ 18000	25.6	37.9	38.3	38.4	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 16000	25.6	37.9	38.3	38.4	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 14000	25.6	38.0	38.4	38.5	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 12000	26.2	38.9	39.4	39.5	39.7	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 10000	27.8	40.8	41.3	41.5	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 9000	28.8	42.2	42.7	42.8	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 8000	29.5	44.0	44.5	44.6	45.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 7000	30.8	45.6	46.1	46.4	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 6000	31.9	46.9	47.4	47.7	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 5000	32.9	48.1	48.7	49.2	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 4500	34.2	49.8	50.4	50.9	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 4000	35.5	51.2	51.8	52.3	53.1	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 3500	39.2	56.6	57.2	57.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 3000	42.4	61.7	62.4	63.1	64.3	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 2500	47.4	70.4	71.2	72.0	73.2	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 2000	53.3	78.4	79.3	80.1	81.3	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 1800	54.4	80.4	81.3	82.3	83.5	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	57.2	85.8	87.9	88.8	90.0	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200	57.6	87.9	89.3	90.3	91.5	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1000	57.7	88.9	90.4	91.4	93.0	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 900	57.7	89.5	91.1	92.4	94.0	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	57.9	90.0	91.8	93.0	94.6	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700	57.9	90.7	92.4	93.7	95.6	96.1	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 600	58.1	91.0	93.0	94.7	96.7	97.3	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	58.1	91.3	93.2	95.1	97.2	97.8	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 400	58.1	91.4	93.4	95.3	97.4	98.0	98.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	58.1	91.4	93.4	95.3	97.4	98.0	98.4	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	58.1	91.4	93.4	95.3	97.4	98.0	98.4	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	58.1	91.4	93.4	95.3	97.4	98.0	98.4	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	58.1	91.4	93.4	95.3	97.4	98.0	98.4	99.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 813

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): 1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	23.9	35.5	35.7	35.9	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
≥ 20000	26.7	39.9	40.5	40.6	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 18000	26.8	40.0	40.6	40.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 16000	26.8	40.0	40.6	40.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 14000	27.2	40.6	41.2	41.4	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 12000	27.5	41.2	42.1	42.2	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 10000	29.4	43.1	43.9	44.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 9000	29.7	43.5	44.3	44.4	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 8000	30.6	45.5	46.6	46.8	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 7000	31.5	46.8	47.9	48.0	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 6000	32.7	48.1	49.2	49.3	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 5000	33.5	49.3	50.4	50.6	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 4500	36.1	53.1	54.2	54.3	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 4000	37.1	54.3	55.4	55.6	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 3500	40.1	58.5	59.6	59.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 3000	45.7	65.6	66.8	67.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 2500	51.3	73.9	75.5	76.1	77.0	77.0	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 2000	55.8	82.5	84.1	84.7	85.6	85.6	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 1800	57.3	84.7	86.3	86.9	87.9	87.9	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1500	58.8	87.9	89.5	90.2	91.3	91.3	91.6	91.7	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	59.2	88.9	90.6	91.4	92.7	92.7	92.9	93.0	93.0	93.3	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1000	59.2	90.1	92.2	93.4	94.6	94.6	94.9	95.2	95.2	95.5	95.6	95.6	95.6	95.6	95.6	95.6
≥ 900	59.2	90.2	92.3	93.5	94.7	94.7	95.0	95.3	95.3	95.7	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	59.2	90.3	92.5	93.8	95.0	95.0	95.3	95.7	95.7	96.1	96.2	96.2	96.2	96.2	96.2	96.2
≥ 700	59.5	90.8	93.1	94.4	95.8	95.8	96.2	96.6	96.6	96.9	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600	59.5	91.1	93.4	94.6	96.1	96.1	96.5	96.8	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	59.5	91.2	93.6	95.1	97.1	97.2	97.6	97.9	97.9	98.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	59.5	91.2	93.6	95.1	97.2	97.3	97.7	98.3	98.5	99.1	99.5	99.5	99.6	99.6	99.6	99.6
≥ 300	59.5	91.2	93.6	95.1	97.2	97.3	97.7	98.3	98.5	99.1	99.5	99.5	99.6	99.6	99.6	99.6
≥ 200	59.5	91.2	93.6	95.1	97.2	97.3	97.7	98.3	98.5	99.4	99.8	99.8	99.9	99.9	99.9	99.9
≥ 100	59.5	91.2	93.6	95.1	97.2	97.3	97.7	98.3	98.5	99.4	99.8	99.8	99.9	99.9	99.9	99.9
≥ 0	59.5	91.2	93.6	95.1	97.2	97.3	97.7	98.3	98.5	99.4	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 817

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	
NO CEILING	25.7	37.0	37.5	38.6	39.1	39.3	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	[illegible]
≥ 20000	27.1	39.4	40.2	41.4	41.9	42.1	42.4	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	[illegible]
≥ 18000	27.3	39.6	40.3	41.5	42.0	42.3	42.5	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	[illegible]
≥ 16000	27.3	39.6	40.3	41.5	42.0	42.3	42.5	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	[illegible]
≥ 14000	27.4	40.5	41.0	42.3	42.8	43.0	43.2	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	[illegible]
≥ 12000	28.0	41.3	42.5	43.7	44.2	44.5	44.7	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	[illegible]
≥ 10000	29.2	43.0	44.2	45.5	45.9	46.2	46.4	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	[illegible]
≥ 9000	29.5	43.2	44.5	45.7	46.2	46.4	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	[illegible]
≥ 8000	30.8	45.2	46.6	47.8	48.5	48.8	49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	[illegible]
≥ 7000	32.8	48.2	49.5	50.9	51.6	51.8	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	[illegible]
≥ 6000	34.8	50.2	51.6	52.9	53.7	53.9	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	[illegible]
≥ 5000	35.9	51.6	52.9	54.3	55.0	55.3	55.5	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	[illegible]
≥ 4500	37.8	54.5	56.4	57.7	58.5	58.7	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	[illegible]
≥ 4000	39.1	56.5	58.4	59.7	60.4	60.7	60.9	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	[illegible]
≥ 3500	41.0	60.1	61.9	63.3	64.0	64.3	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	[illegible]
≥ 3000	45.3	66.2	68.7	70.0	70.8	71.1	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	[illegible]
≥ 2500	61.1	74.2	77.0	78.5	79.2	79.6	80.0	80.0	80.1	80.2	80.2	80.2	80.2	80.2	80.2	[illegible]
≥ 2000	54.4	81.7	84.8	86.4	87.2	87.6	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	[illegible]
≥ 1800	55.4	83.3	86.5	88.1	88.9	89.3	89.8	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	[illegible]
≥ 1500	56.8	85.1	88.7	90.3	91.2	91.8	92.3	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	[illegible]
≥ 1200	57.1	85.7	89.3	90.9	91.8	92.4	92.9	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	[illegible]
≥ 1000	57.1	86.4	90.2	91.8	92.6	93.4	93.9	93.9	94.0	94.3	94.3	94.3	94.3	94.3	94.3	[illegible]
≥ 900	57.4	86.7	90.5	92.4	93.2	94.0	94.5	94.6	94.7	95.1	95.1	95.1	95.1	95.1	95.1	[illegible]
≥ 800	57.5	87.0	90.8	92.8	93.7	94.5	95.2	95.3	95.5	95.8	95.8	95.8	95.8	95.8	95.8	[illegible]
≥ 700	57.6	87.2	91.3	93.2	94.3	95.1	95.8	95.9	96.1	96.4	96.6	96.6	96.6	96.6	96.6	[illegible]
≥ 600	57.8	87.4	91.5	93.6	94.7	95.5	96.2	96.3	96.4	96.8	96.9	96.9	96.9	96.9	96.9	[illegible]
≥ 500	57.8	87.2	91.3	93.6	94.8	95.6	96.6	96.7	96.8	97.2	97.3	97.3	97.3	97.3	97.3	[illegible]
≥ 400	57.6	87.2	91.3	93.7	95.0	95.7	97.1	97.2	97.3	97.8	97.9	97.9	97.9	97.9	97.9	[illegible]
≥ 300	57.6	87.2	91.3	93.9	95.3	96.2	97.9	98.3	98.4	99.3	99.4	99.4	99.4	99.5	99.5	99.5
≥ 200	57.6	87.2	91.3	93.9	95.3	96.2	97.9	98.3	98.5	99.5	99.8	99.8	99.8	99.9	99.9	99.9
≥ 100	57.6	87.2	91.3	93.9	95.3	96.2	97.9	98.4	98.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	57.6	87.2	91.3	93.9	95.3	96.2	97.9	98.4	98.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 814

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0	≥0
NO CEILING	26.8	37.6	39.1	40.0	41.0	41.0	41.0	41.0	41.0	41.4	41.5	41.5	41.7	41.7	41.8	42.3
≥ 20000	28.1	40.0	41.4	42.3	43.4	43.4	43.4	43.4	43.4	43.7	43.8	43.8	44.0	44.0	44.1	44.6
≥ 18000	28.1	40.0	41.4	42.3	43.4	43.4	43.4	43.4	43.4	43.7	43.8	43.8	44.0	44.0	44.1	44.6
≥ 16000	28.1	40.0	41.4	42.3	43.4	43.4	43.4	43.4	43.4	43.7	43.8	43.8	44.0	44.0	44.1	44.6
≥ 14000	28.1	40.0	41.4	42.3	43.4	43.4	43.4	43.4	43.4	43.7	43.8	43.8	44.0	44.0	44.1	44.6
≥ 12000	28.4	40.7	42.6	43.6	44.7	44.7	44.7	44.7	44.7	45.1	45.2	45.2	45.3	45.3	45.4	45.9
≥ 10000	28.7	41.0	43.2	44.1	45.2	45.2	45.2	45.2	45.2	45.6	45.7	45.7	45.8	45.8	45.9	46.4
≥ 9000	28.9	41.2	43.4	44.2	45.3	45.3	45.3	45.3	45.3	45.7	45.8	45.8	45.9	45.9	46.0	46.5
≥ 8000	30.1	42.5	44.7	45.6	46.8	46.8	46.8	46.8	46.8	47.1	47.3	47.3	47.4	47.4	47.5	48.0
≥ 7000	31.1	44.3	46.8	47.9	49.1	49.1	49.1	49.1	49.1	49.5	49.6	49.6	49.7	49.7	49.8	50.3
≥ 6000	32.4	45.9	48.6	49.7	51.0	51.0	51.0	51.0	51.0	51.4	51.5	51.5	51.6	51.6	51.8	52.3
≥ 5000	35.0	48.6	51.4	52.5	54.1	54.1	54.1	54.1	54.1	54.4	54.6	54.6	54.7	54.7	54.8	55.3
≥ 4500	37.6	52.1	55.4	56.6	58.2	58.2	58.2	58.2	58.2	58.6	58.7	58.7	58.8	58.8	59.0	59.4
≥ 4000	38.1	53.5	56.9	58.1	59.7	59.7	59.7	59.7	59.7	60.0	60.2	60.2	60.3	60.3	60.4	60.9
≥ 3500	41.4	58.2	61.6	62.9	64.4	64.4	64.4	64.4	64.4	64.8	64.9	64.9	65.0	65.0	65.2	65.7
≥ 3000	45.6	64.1	68.1	69.3	70.9	70.9	70.9	70.9	70.9	71.3	71.4	71.4	71.5	71.5	71.6	72.1
≥ 2500	48.5	71.4	74.9	76.4	78.0	78.0	78.2	78.2	78.2	78.6	78.7	78.7	78.8	78.8	78.9	79.4
≥ 2000	50.7	77.8	81.7	83.2	85.0	85.0	85.3	85.4	85.4	85.7	85.9	85.9	86.0	86.0	86.1	86.6
≥ 1800	51.0	78.7	82.6	84.0	86.0	86.0	86.2	86.4	86.4	86.7	87.0	87.0	87.1	87.1	87.2	87.7
≥ 1500	53.0	82.1	86.7	88.2	90.4	90.4	90.6	90.7	90.7	91.2	91.5	91.5	91.6	91.6	91.7	92.2
≥ 1200	53.1	83.1	87.8	89.3	91.5	91.5	91.7	91.8	91.8	92.3	92.6	92.6	92.7	92.7	92.8	93.3
≥ 1000	53.5	84.0	89.2	91.0	93.2	93.5	93.5	93.7	93.7	94.2	94.4	94.4	94.5	94.5	94.6	95.1
≥ 900	53.6	84.4	89.6	91.6	93.8	93.9	94.2	94.3	94.3	94.8	95.0	95.0	95.1	95.1	95.2	95.7
≥ 800	53.6	84.8	90.1	92.3	94.5	94.6	94.9	95.0	95.0	95.5	95.7	95.7	95.9	95.9	96.0	96.5
≥ 700	53.6	85.1	90.5	92.7	94.9	95.0	95.2	95.4	95.4	95.9	96.1	96.1	96.2	96.2	96.3	96.8
≥ 600	53.6	85.3	90.6	92.8	95.1	95.2	95.5	95.6	95.6	96.1	96.3	96.3	96.5	96.5	96.6	97.1
≥ 500	53.6	85.3	90.6	92.8	95.1	95.2	95.5	95.6	95.6	96.1	96.3	96.3	96.5	96.5	96.6	97.1
≥ 400	53.6	85.4	90.7	92.9	95.2	95.6	96.1	96.2	96.2	96.8	97.1	97.1	97.2	97.2	97.3	97.8
≥ 300	53.6	85.4	90.7	92.9	95.4	95.7	96.2	96.3	96.3	97.2	97.6	97.6	97.8	97.8	97.9	98.4
≥ 200	53.6	85.4	90.7	92.9	95.4	95.7	96.2	96.6	96.6	97.7	98.1	98.1	98.3	98.3	98.4	98.9
≥ 100	53.6	85.4	90.7	92.9	95.4	95.7	96.2	96.8	96.8	98.1	98.4	98.4	98.8	98.8	98.9	99.5
≥ 0	53.6	85.4	90.7	92.9	95.4	95.7	96.2	96.8	96.8	98.1	98.4	98.4	98.8	98.8	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	24.0	35.9	37.0	37.8	38.4	38.6	38.9	38.9	39.0	39.2	39.4	39.4	39.6	39.6	39.7	40.0
≥ 20000	25.9	39.1	40.3	41.1	41.8	41.9	42.3	42.3	42.4	42.6	42.8	42.8	43.0	43.0	43.1	43.4
≥ 18000	26.0	39.2	40.4	41.2	41.9	42.1	42.4	42.5	42.5	42.8	42.9	42.9	43.1	43.1	43.3	43.5
≥ 16000	26.0	39.2	40.4	41.2	41.9	42.1	42.4	42.5	42.5	42.8	42.9	42.9	43.1	43.1	43.3	43.5
≥ 14000	26.1	39.4	40.6	41.5	42.1	42.3	42.6	42.7	42.8	43.0	43.2	43.2	43.4	43.4	43.5	43.8
≥ 12000	26.4	40.2	41.6	42.4	43.1	43.3	43.6	43.7	43.8	44.0	44.2	44.2	44.3	44.4	44.5	44.7
≥ 10000	27.3	41.5	43.0	43.8	44.5	44.7	45.0	45.1	45.2	45.4	45.6	45.6	45.8	45.8	45.9	46.2
≥ 9000	27.8	42.0	43.5	44.3	45.1	45.3	45.6	45.7	45.7	46.0	46.1	46.1	46.3	46.3	46.5	46.7
≥ 8000	28.8	43.5	45.0	45.8	46.7	47.0	47.3	47.4	47.5	47.7	47.9	47.9	48.1	48.1	48.2	48.5
≥ 7000	30.1	45.1	46.7	47.6	48.5	48.7	49.0	49.2	49.2	49.5	49.7	49.7	49.8	49.9	50.0	50.2
≥ 6000	31.3	46.6	48.2	49.2	50.1	50.3	50.6	50.8	50.8	51.1	51.3	51.3	51.5	51.5	51.6	51.9
≥ 5000	32.7	48.5	50.2	51.2	52.2	52.5	52.8	53.0	53.0	53.3	53.5	53.5	53.7	53.7	53.9	54.1
≥ 4500	34.7	51.5	53.3	54.3	55.4	55.6	56.0	56.1	56.2	56.5	56.7	56.7	56.9	57.0	57.1	57.3
≥ 4000	35.5	52.9	54.7	55.7	56.8	57.1	57.5	57.6	57.7	58.0	58.2	58.2	58.4	58.4	58.6	58.8
≥ 3500	38.1	56.8	58.7	59.7	60.9	61.1	61.5	61.7	61.7	62.1	62.3	62.3	62.5	62.5	62.7	62.9
≥ 3000	41.4	61.9	64.0	65.2	66.4	66.7	67.1	67.2	67.3	67.6	67.9	67.9	68.1	68.1	68.2	68.5
≥ 2500	45.7	68.9	71.1	72.5	73.8	74.1	74.6	74.8	74.9	75.2	75.5	75.5	75.7	75.7	75.9	76.1
≥ 2000	49.5	75.0	77.5	79.0	80.4	80.8	81.3	81.6	81.7	82.0	82.3	82.3	82.5	82.5	82.7	82.9
≥ 1800	50.4	76.7	79.2	80.8	82.2	82.6	83.1	83.4	83.5	83.8	84.1	84.1	84.3	84.3	84.5	84.7
≥ 1500	52.4	80.8	83.6	85.4	87.0	87.4	88.0	88.3	88.4	88.8	89.1	89.1	89.3	89.3	89.5	89.7
≥ 1200	52.9	82.1	85.0	86.9	88.6	89.0	89.6	89.9	90.0	90.4	90.7	90.7	90.9	91.0	91.1	91.4
≥ 1000	53.2	83.2	86.4	88.4	90.2	90.7	91.4	91.7	91.8	92.3	92.6	92.6	92.8	92.8	93.0	93.2
≥ 900	53.2	83.5	86.7	89.0	90.8	91.3	92.0	92.3	92.4	92.9	93.2	93.2	93.4	93.5	93.6	93.9
≥ 800	53.3	84.0	87.3	89.6	91.5	92.0	92.8	93.2	93.3	93.8	94.1	94.1	94.3	94.3	94.5	94.7
≥ 700	53.4	84.3	87.8	90.2	92.3	92.8	93.7	94.0	94.1	94.7	95.0	95.0	95.2	95.2	95.4	95.6
≥ 600	53.4	84.6	88.1	90.6	92.8	93.3	94.3	94.7	94.8	95.4	95.7	95.7	95.8	95.9	96.0	96.3
≥ 500	53.4	84.7	88.3	90.9	93.3	93.9	94.9	95.4	95.5	96.1	96.4	96.4	96.6	96.7	96.8	97.1
≥ 400	53.4	84.7	88.4	91.1	93.6	94.2	95.3	96.0	96.2	96.9	97.3	97.3	97.5	97.5	97.7	97.9
≥ 300	53.4	84.7	88.5	91.2	93.7	94.4	95.6	96.3	96.6	97.5	97.8	97.8	98.1	98.2	98.4	98.6
≥ 200	53.4	84.7	88.5	91.2	93.8	94.5	95.8	96.5	96.8	97.8	98.2	98.2	98.5	98.6	98.8	99.1
≥ 100	53.4	84.7	88.5	91.2	93.8	94.5	95.8	96.6	96.9	98.0	98.4	98.4	98.7	98.8	99.1	99.6
≥ 0	53.4	84.7	88.5	91.2	93.8	94.5	95.8	96.6	96.9	98.0	98.4	98.4	98.7	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6506

USAF ETAC FORM NO. 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥½	≥5/16	≥¼	≥0
NO CEILING	18.2	25.8	26.5	27.1	27.2	27.2	27.6	27.7	27.7	27.7	27.7	27.7	28.1	28.1	28.5	29.3
≥ 20000	18.4	26.5	27.1	27.7	27.9	27.9	28.3	28.4	28.4	28.4	28.4	28.4	28.8	28.8	29.2	29.9
≥ 18000	18.4	26.5	27.1	27.7	27.9	27.9	28.3	28.4	28.4	28.4	28.4	28.4	28.8	28.8	29.2	29.9
≥ 16000	18.4	26.5	27.1	27.7	27.9	27.9	28.3	28.4	28.4	28.4	28.4	28.4	28.8	28.8	29.2	29.9
≥ 14000	18.4	26.6	27.2	27.9	28.0	28.0	28.4	28.5	28.5	28.5	28.5	28.5	28.9	28.9	29.3	30.1
≥ 12000	18.8	27.1	28.0	28.6	28.8	28.8	29.2	29.3	29.3	29.3	29.3	29.3	29.7	29.7	30.1	30.8
≥ 10000	19.4	27.9	28.8	29.4	29.5	29.5	29.9	30.1	30.1	30.1	30.1	30.1	30.4	30.4	30.8	31.6
≥ 9000	19.4	27.9	28.8	29.4	29.5	29.5	29.9	30.1	30.1	30.1	30.1	30.1	30.4	30.4	30.8	31.6
≥ 8000	21.5	30.1	31.2	31.8	32.0	32.0	32.4	32.5	32.5	32.5	32.5	32.5	32.9	32.9	33.2	34.0
≥ 7000	22.6	31.7	32.9	33.5	33.6	33.6	34.0	34.1	34.1	34.1	34.1	34.1	34.5	34.5	34.9	35.7
≥ 6000	24.2	33.2	34.4	35.0	35.2	35.2	35.5	35.7	35.7	35.7	35.7	35.7	36.1	36.1	36.4	37.2
≥ 5000	25.1	35.3	36.6	37.2	37.3	37.3	37.7	37.9	37.9	37.9	37.9	37.9	38.2	38.2	38.6	39.4
≥ 4500	28.0	38.5	39.8	40.5	40.7	40.7	41.0	41.2	41.2	41.2	41.2	41.2	41.6	41.6	41.9	42.7
≥ 4000	29.0	40.3	41.6	42.3	42.5	42.5	42.8	43.1	43.1	43.1	43.1	43.1	43.5	43.5	43.9	44.6
≥ 3500	32.9	46.7	48.2	49.4	49.5	49.5	49.9	50.1	50.1	50.1	50.1	50.1	50.5	50.5	50.9	51.7
≥ 3000	37.5	53.8	56.3	57.4	57.8	57.8	58.3	58.6	58.6	58.6	58.6	58.6	59.0	59.0	59.3	60.1
≥ 2500	41.2	61.1	63.8	65.1	65.5	65.5	66.1	66.4	66.4	66.4	66.4	66.4	66.8	66.8	67.1	67.9
≥ 2000	45.8	68.8	71.7	73.0	73.5	73.5	74.2	74.4	74.4	74.4	74.4	74.4	74.8	74.8	75.2	76.0
≥ 1800	47.6	71.1	74.0	75.4	76.0	76.0	76.6	76.9	76.9	76.9	76.9	76.9	77.2	77.2	77.6	78.4
≥ 1500	49.7	76.0	79.3	80.8	81.7	81.7	82.4	82.7	82.7	82.7	82.7	82.7	83.1	83.1	83.5	84.4
≥ 1200	50.3	77.5	80.9	82.6	83.5	83.6	84.3	84.7	84.7	84.7	84.7	84.7	85.0	85.0	85.4	86.3
≥ 1000	50.5	78.4	82.0	84.0	84.9	85.0	85.7	86.1	86.1	86.1	86.1	86.1	86.4	86.4	86.8	87.7
≥ 900	50.5	78.9	82.5	84.5	85.4	85.7	86.3	86.7	86.8	86.8	86.8	86.8	87.2	87.2	87.6	88.5
≥ 800	50.5	79.1	83.4	85.4	86.3	86.7	87.3	87.7	87.9	88.0	88.0	88.0	88.4	88.4	88.7	89.6
≥ 700	50.8	80.2	84.0	86.1	87.0	87.5	88.1	88.5	88.7	88.9	88.9	88.9	89.3	89.3	89.6	90.5
≥ 600	50.8	80.4	84.5	86.8	87.7	88.2	88.9	89.5	89.8	89.9	89.9	89.9	90.3	90.3	90.7	91.6
≥ 500	50.8	80.8	85.0	87.3	88.2	88.7	89.6	90.4	90.7	91.0	91.2	91.2	91.6	91.6	91.9	92.8
≥ 400	50.8	80.8	85.2	87.7	88.6	89.1	90.3	91.3	91.8	92.6	93.1	93.1	93.6	93.6	94.0	94.9
≥ 300	50.8	80.8	85.4	88.0	88.9	89.4	90.7	91.8	92.3	93.2	93.7	93.7	94.2	94.2	94.6	95.5
≥ 200	50.8	80.8	85.4	88.1	89.1	89.6	91.0	92.5	93.0	94.1	94.6	94.6	95.3	95.3	95.9	97.1
≥ 100	50.8	80.8	85.4	88.1	89.1	89.6	91.0	92.6	93.2	94.4	95.4	95.4	96.3	96.4	97.6	98.7
≥ 0	50.8	80.8	85.4	88.1	89.1	89.6	91.0	92.6	93.2	94.4	95.4	95.4	96.4	96.7	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 782

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2300-0500 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	18.5	27.8	29.0	29.7	30.0	30.0	30.1	30.1	30.1	30.3	30.4	30.6	30.9	30.9	30.9	31.3
≥ 20000	19.2	30.0	31.1	31.9	32.2	32.2	32.3	32.3	32.3	32.4	32.5	32.8	33.0	33.0	33.0	33.4
≥ 18000	19.2	30.0	31.1	31.9	32.2	32.2	32.3	32.3	32.3	32.4	32.5	32.8	33.0	33.0	33.0	33.4
≥ 16000	19.2	30.0	31.1	31.9	32.2	32.2	32.3	32.3	32.3	32.4	32.5	32.8	33.0	33.0	33.0	33.4
≥ 14000	19.2	30.0	31.1	31.9	32.2	32.2	32.3	32.3	32.3	32.4	32.5	32.8	33.0	33.0	33.0	33.4
≥ 12000	19.5	30.3	31.4	32.2	32.4	32.4	32.5	32.5	32.5	32.7	32.8	33.0	33.3	33.3	33.3	33.7
≥ 10000	20.1	31.0	32.2	32.9	33.2	33.2	33.3	33.3	33.3	33.4	33.5	33.8	34.1	34.1	34.1	34.4
≥ 9000	20.3	31.1	32.3	33.0	33.3	33.3	33.4	33.4	33.4	33.5	33.7	33.9	34.2	34.2	34.2	34.6
≥ 8000	21.3	32.3	33.7	34.4	34.7	34.7	34.8	34.8	34.8	34.9	35.1	35.3	35.6	35.6	35.6	35.9
≥ 7000	22.7	34.1	35.4	36.2	36.5	36.5	36.6	36.6	36.6	36.7	36.8	37.1	37.3	37.3	37.3	37.7
≥ 6000	23.8	35.8	37.3	38.1	38.4	38.4	38.5	38.5	38.5	38.6	38.7	39.0	39.2	39.2	39.2	39.6
≥ 5000	25.8	38.6	40.1	41.0	41.3	41.3	41.4	41.4	41.4	41.5	41.6	41.9	42.2	42.2	42.3	42.8
≥ 4500	27.5	41.4	43.3	43.9	44.2	44.2	44.4	44.4	44.4	44.6	44.7	44.9	45.2	45.2	45.3	45.8
≥ 4000	28.2	42.4	44.1	44.9	45.2	45.2	45.4	45.4	45.4	45.6	45.7	45.9	46.2	46.2	46.3	46.8
≥ 3500	32.4	47.8	49.6	50.5	50.8	50.8	51.0	51.0	51.0	51.1	51.3	51.5	51.8	51.8	51.9	52.4
≥ 3000	35.9	53.4	56.1	57.1	57.7	57.7	58.0	58.0	58.0	58.2	58.4	58.6	58.9	58.9	59.0	59.5
≥ 2500	39.9	60.5	63.2	64.3	65.2	65.3	65.6	65.6	65.6	65.8	66.1	66.3	66.7	66.7	67.0	67.5
≥ 2000	43.2	67.2	70.0	71.4	72.5	72.7	72.9	72.9	72.9	73.2	73.4	73.7	74.1	74.1	74.3	74.8
≥ 1800	43.9	69.4	72.3	73.7	75.1	75.2	75.4	75.4	75.4	75.7	75.9	76.2	76.6	76.6	76.8	77.3
≥ 1500	47.1	75.1	78.0	79.4	81.0	81.3	81.8	81.8	81.8	82.0	82.3	82.5	82.9	82.9	83.2	83.7
≥ 1200	47.8	77.3	80.4	81.8	83.4	83.7	84.2	84.6	84.6	84.8	85.1	85.3	85.7	85.7	85.9	86.5
≥ 1000	48.0	78.2	81.5	83.0	85.1	85.3	85.8	86.2	86.3	86.6	86.8	87.1	87.5	87.5	87.7	88.2
≥ 900	48.1	78.6	81.9	83.4	85.4	85.7	86.2	86.6	86.7	87.0	87.2	87.5	87.8	87.8	88.1	88.6
≥ 800	48.2	78.9	82.2	83.7	85.7	86.1	86.6	87.1	87.2	87.5	87.7	88.0	88.4	88.4	88.6	89.1
≥ 700	48.2	79.2	82.7	84.2	86.3	86.7	87.2	87.7	87.8	88.1	88.5	88.7	89.1	89.1	89.4	89.9
≥ 600	48.2	79.5	83.3	84.8	87.0	87.3	88.0	88.5	88.6	88.9	89.2	89.5	90.0	90.0	90.3	90.8
≥ 500	48.2	79.6	83.7	85.2	87.3	87.8	88.7	89.6	89.9	90.5	91.0	91.3	91.8	91.8	92.0	92.5
≥ 400	48.2	79.7	84.1	85.6	87.8	88.6	89.7	90.9	91.3	92.0	92.7	92.9	93.4	93.5	93.8	94.3
≥ 300	48.2	79.9	84.3	86.2	88.9	89.6	91.3	92.4	92.8	93.7	94.4	94.7	95.2	95.3	95.6	96.1
≥ 200	48.2	79.9	84.3	86.2	89.0	89.7	92.2	93.5	93.9	94.9	96.3	96.6	97.1	97.2	97.5	98.1
≥ 100	48.2	79.9	84.3	86.2	89.0	89.7	92.2	93.5	94.1	95.2	96.6	96.8	97.6	97.7	98.4	99.1
≥ 0	48.2	79.9	84.3	86.2	89.0	89.7	92.2	93.5	94.1	95.2	96.6	96.8	97.6	97.7	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 790

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	16.4	23.6	25.1	26.0	26.7	27.2	27.5	27.7	27.7	28.0	28.4	28.4	28.8	28.8	28.9	29.0
≥ 20000	17.0	24.7	26.2	27.1	28.0	28.6	28.9	29.1	29.1	29.5	29.9	29.9	30.3	30.4	30.5	30.6
≥ 18000	17.0	24.7	26.2	27.1	28.0	28.6	28.9	29.1	29.1	29.5	29.9	29.9	30.3	30.4	30.5	30.6
≥ 16000	17.0	24.7	26.2	27.1	28.0	28.6	28.9	29.1	29.1	29.5	29.9	29.9	30.3	30.4	30.5	30.6
≥ 14000	17.0	24.8	26.4	27.2	28.1	28.8	29.0	29.3	29.3	29.6	30.0	30.0	30.4	30.5	30.6	30.8
≥ 12000	17.0	25.0	26.5	27.4	28.2	28.9	29.1	29.4	29.4	29.8	30.1	30.1	30.5	30.6	30.8	30.9
≥ 10000	18.3	26.5	28.0	28.9	29.8	30.4	30.6	30.9	30.9	31.3	31.7	31.7	32.0	32.2	32.3	32.5
≥ 9000	18.3	26.5	28.0	28.9	29.8	30.4	30.6	30.9	30.9	31.3	31.7	31.7	32.0	32.2	32.3	32.5
≥ 8000	20.1	28.8	30.3	31.1	32.0	32.8	33.0	33.3	33.3	33.7	34.0	34.0	34.4	34.6	34.7	34.9
≥ 7000	21.4	30.4	31.9	32.8	33.8	34.6	34.8	35.1	35.1	35.4	35.8	35.8	36.2	36.3	36.4	36.7
≥ 6000	21.7	30.8	32.4	33.3	34.3	35.1	35.3	35.6	35.6	35.9	36.3	36.3	36.7	36.8	36.9	37.2
≥ 5000	23.0	33.7	35.6	36.4	37.7	38.5	38.7	39.0	39.0	39.3	39.7	39.7	40.1	40.2	40.4	40.6
≥ 4500	24.1	34.9	36.8	37.7	39.2	40.2	40.5	40.7	40.7	41.1	41.5	41.5	41.9	42.0	42.1	42.4
≥ 4000	25.2	36.8	38.7	39.6	41.1	42.1	42.4	42.6	42.6	43.0	43.4	43.4	43.8	43.9	44.0	44.3
≥ 3500	27.6	41.1	43.0	44.0	45.5	46.5	46.9	47.2	47.2	47.5	47.9	47.9	48.3	48.4	48.5	48.8
≥ 3000	31.1	46.7	48.9	49.9	51.7	52.7	53.1	53.3	53.3	53.8	54.4	54.4	54.9	55.0	55.1	55.4
≥ 2500	35.3	54.9	57.6	59.1	61.0	62.3	62.7	62.9	63.1	63.6	64.1	64.1	64.6	64.7	64.8	65.1
≥ 2000	39.3	62.4	65.2	67.1	69.5	70.9	71.2	71.5	71.6	72.1	72.6	72.6	73.1	73.3	73.4	73.6
≥ 1800	39.8	63.7	66.5	68.3	70.7	72.3	72.8	73.0	73.1	73.6	74.1	74.1	74.7	74.8	74.9	75.2
≥ 1500	41.9	68.0	71.2	73.4	76.2	77.7	78.2	78.9	79.1	79.6	80.3	80.5	81.0	81.1	81.2	81.5
≥ 1200	43.0	70.2	74.1	76.5	79.4	81.0	81.6	82.7	82.8	83.4	84.2	84.4	85.0	85.1	85.2	85.5
≥ 1000	43.1	71.4	75.4	77.9	81.0	82.6	83.2	84.4	84.5	85.1	86.0	86.1	86.8	86.9	87.0	87.3
≥ 900	43.3	71.6	75.8	78.3	81.3	83.0	83.6	84.7	84.9	85.5	86.4	86.5	87.1	87.3	87.4	87.6
≥ 800	43.4	72.3	76.4	78.9	82.3	84.0	84.7	85.9	86.0	86.6	87.5	87.6	88.3	88.4	88.5	88.8
≥ 700	43.4	73.0	77.3	79.9	83.4	85.0	85.8	87.1	87.3	87.9	88.8	88.9	89.5	89.7	89.8	90.0
≥ 600	43.5	73.1	77.6	80.6	84.1	85.9	86.8	88.1	88.3	89.0	89.9	90.2	90.8	90.9	91.0	91.3
≥ 500	43.5	73.1	77.6	80.7	84.4	86.3	87.5	89.0	89.2	90.3	91.3	91.7	92.3	92.4	92.7	92.9
≥ 400	43.5	73.1	77.7	81.1	84.9	86.9	88.3	89.9	90.0	91.6	92.6	92.9	93.6	93.7	93.9	94.2
≥ 300	43.5	73.1	77.7	81.2	85.0	87.1	89.4	91.7	91.8	93.6	95.0	95.3	96.0	96.1	96.3	96.6
≥ 200	43.6	73.3	77.8	81.6	85.4	87.5	90.3	92.7	92.8	94.6	96.2	96.6	97.4	97.5	97.7	98.0
≥ 100	43.6	73.3	77.8	81.6	85.4	87.5	90.3	92.8	92.9	95.0	96.7	97.1	98.1	98.5	98.9	99.2
≥ 0	43.6	73.3	77.8	81.6	85.4	87.5	90.3	92.8	92.9	95.0	96.7	97.1	98.1	98.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 793

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72659	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 1400-1800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	15.[illegible]	25.3	26.4	26.7	28.5	28.6	29.0	29.1	29.1	29.5	29.6	29.6	29.6	29.6	29.6	29.6
≥ 20000	16.6	27.1	28.5	28.7	30.5	30.8	31.2	31.3	31.4	31.9	32.1	32.1	32.1	32.1	32.1	32.1
≥ 18000	16.6	27.1	28.5	28.7	30.5	30.8	31.2	31.3	31.4	31.9	32.1	32.1	32.1	32.1	32.1	32.1
≥ 16000	16.6	27.1	28.5	28.7	30.5	30.8	31.2	31.3	31.4	31.9	32.1	32.1	32.1	32.1	32.1	32.1
≥ 14000	16.7	27.3	28.7	29.0	30.8	31.0	31.4	31.5	31.7	32.2	32.3	32.3	32.3	32.3	32.3	32.3
≥ 12000	17.2	28.0	29.4	29.6	31.4	31.7	32.1	32.2	32.3	32.8	33.0	33.0	33.0	33.0	33.0	33.0
≥ 10000	18.5	29.8	31.2	31.5	33.5	33.8	34.4	34.5	34.6	35.1	35.2	35.2	35.2	35.2	35.2	35.2
≥ 9000	18.5	29.8	31.2	31.5	33.5	33.8	34.4	34.5	34.6	35.1	35.2	35.2	35.2	35.2	35.2	35.2
≥ 8000	21.2	33.0	34.5	34.9	36.9	37.3	37.9	38.1	38.2	38.7	38.8	38.8	38.8	38.8	38.8	38.8
≥ 7000	22.0	33.7	35.2	35.6	37.7	38.1	38.7	38.8	39.0	39.5	39.6	39.6	39.6	39.6	39.6	39.6
≥ 6000	22.2	34.0	35.6	36.0	38.1	38.4	39.1	39.2	39.3	39.8	40.0	40.0	40.0	40.0	40.0	40.0
≥ 5000	22.7	34.9	36.5	37.0	39.5	39.8	40.5	40.6	40.7	41.4	41.5	41.5	41.5	41.5	41.5	41.5
≥ 4500	24.1	36.5	38.8	39.3	41.9	42.3	42.9	43.0	43.2	43.8	43.9	43.9	43.9	43.9	43.9	43.9
≥ 4000	24.4	37.3	39.6	40.1	42.7	43.0	43.7	43.8	43.9	44.6	44.7	44.7	44.7	44.7	44.7	44.7
≥ 3500	27.2	41.3	43.8	44.3	46.9	47.4	48.0	48.3	48.4	49.0	49.2	49.2	49.2	49.2	49.2	49.2
≥ 3000	30.5	46.0	49.2	49.7	52.5	53.0	53.8	54.2	54.3	54.9	55.0	55.0	55.0	55.0	55.0	55.0
≥ 2500	35.0	54.7	57.6	58.2	61.4	62.2	63.3	63.9	64.0	64.6	64.8	64.8	64.8	64.8	64.8	64.8
≥ 2000	40.4	63.5	66.8	67.4	70.8	71.6	72.8	73.3	73.4	74.2	74.3	74.3	74.3	74.3	74.3	74.3
≥ 1800	41.4	64.9	68.2	68.8	72.2	73.2	74.3	74.8	75.0	75.9	76.0	76.0	76.0	76.0	76.1	76.1
≥ 1500	42.3	68.5	72.0	72.9	77.0	78.3	79.6	80.3	80.5	81.4	81.9	81.9	81.9	81.9	82.0	82.0
≥ 1200	42.9	70.4	74.1	75.1	79.3	80.6	81.9	82.6	82.8	83.7	84.2	84.2	84.3	84.3	84.4	84.4
≥ 1000	43.4	71.9	75.9	76.9	81.4	82.8	84.3	85.2	85.4	86.6	87.1	87.1	87.2	87.2	87.4	87.4
≥ 900	43.4	72.0	76.0	77.1	81.6	83.0	84.5	85.4	85.7	86.8	87.5	87.6	87.9	87.9	88.0	88.0
≥ 800	43.6	72.4	76.6	77.8	82.2	83.7	85.3	86.2	86.5	87.6	88.4	88.5	88.8	88.8	88.9	88.9
≥ 700	43.6	72.9	77.1	78.4	83.0	84.4	86.1	87.0	87.2	88.5	89.3	89.4	89.7	89.7	89.8	89.9
≥ 600	43.6	73.2	77.4	78.8	83.7	85.2	86.8	87.7	88.0	89.3	90.0	90.3	90.5	90.5	90.7	90.7
≥ 500	43.6	73.3	77.7	79.1	84.3	85.8	87.7	88.8	89.0	90.4	91.3	91.8	92.3	92.5	92.6	92.6
≥ 400	43.6	73.6	78.3	79.7	85.1	86.7	89.3	90.5	90.9	92.5	93.5	94.0	94.5	94.8	94.9	94.9
≥ 300	43.6	73.6	78.3	79.7	85.6	87.5	90.0	91.4	91.8	93.5	94.9	95.4	95.9	96.2	96.3	96.3
≥ 200	43.6	73.6	78.3	79.7	85.6	87.6	90.3	91.7	92.1	94.0	95.8	96.7	97.7	98.0	98.3	98.3
≥ 100	43.6	73.6	78.3	79.7	85.6	87.6	90.3	91.7	92.1	94.0	95.8	96.7	97.8	98.3	99.1	99.1
≥ 0	43.6	73.6	78.3	79.7	85.6	87.6	90.3	91.7	92.1	94.0	95.8	96.7	97.8	98.3	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 783

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
14391	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥½	≥ 5/16	≥¼	≥0
NO CEILING	19.9	27.2	28.4	28.9	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 20000	21.5	29.7	31.0	31.5	31.7	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 18000	21.5	29.7	31.0	31.5	31.7	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 16000	21.5	29.7	31.0	31.5	31.7	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 14000	21.7	29.9	31.2	31.7	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
≥ 12000	22.1	30.6	31.9	32.4	32.6	32.6	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
≥ 10000	23.7	32.3	33.5	34.2	34.4	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 9000	23.7	32.3	33.5	34.2	34.4	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 8000	26.1	35.2	36.5	37.1	37.4	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 7000	27.6	37.0	38.6	39.2	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 6000	27.8	37.3	38.9	39.6	39.8	39.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 5000	28.4	38.4	40.1	40.7	41.0	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 4500	31.3	41.5	43.4	44.1	44.3	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 4000	31.5	42.2	44.1	44.7	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 3500	33.2	44.5	46.5	47.2	47.4	47.4	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 3000	36.5	49.5	51.5	52.3	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 2500	42.7	59.0	61.4	62.5	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 2000	46.7	66.8	69.4	70.6	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 1800	48.2	69.8	72.4	73.5	74.9	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1500	50.0	74.4	77.4	79.3	81.2	81.4	81.7	81.7	82.0	82.1	82.1	82.1	82.1	82.1	82.1
≥ 1200	50.6	75.7	78.7	80.6	82.9	83.0	83.8	83.8	84.1	84.2	84.2	84.2	84.2	84.2	84.2
≥ 1000	51.3	77.2	80.2	82.1	84.4	84.7	85.7	85.9	86.4	86.8	86.8	86.8	86.8	86.8	86.8
≥ 900	51.3	77.5	81.2	83.3	85.7	86.0	87.1	87.4	87.9	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800	51.7	78.1	82.0	84.3	87.0	87.4	88.8	89.6	90.1	90.7	90.9	90.9	90.9	90.9	90.9
≥ 700	51.9	78.7	82.5	85.0	88.0	88.4	89.8	90.9	91.4	92.0	92.2	92.3	92.3	92.3	92.3
≥ 600	51.9	78.9	83.0	85.6	88.8	89.2	90.6	91.8	92.4	93.1	93.2	93.4	93.6	93.6	93.6
≥ 500	51.9	79.2	83.3	86.2	89.7	90.2	91.6	93.2	93.8	94.6	94.7	95.4	95.5	95.5	95.5
≥ 400	51.9	79.4	84.1	87.0	90.9	91.5	92.9	94.6	95.2	96.1	96.5	97.2	97.3	97.3	97.3
≥ 300	51.9	79.4	84.2	87.4	91.5	92.2	93.7	95.4	96.1	97.2	97.7	98.3	98.5	98.7	98.8	99.0
≥ 200	51.9	79.4	84.2	87.4	91.5	92.2	93.7	95.4	96.1	97.6	98.1	98.8	99.0	99.2	99.4	99.5
≥ 100	51.9	79.4	84.2	87.4	91.5	92.2	93.7	95.4	96.1	97.6	98.1	98.8	99.1	99.5	99.9	100.0
≥ 0	51.9	79.4	84.2	87.4	91.5	92.2	93.7	95.4	96.1	97.6	98.1	98.8	99.1	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 778

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.9	28.0	28.1	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
≥ 20000	22.4	31.3	31.4	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 18000	22.4	31.3	31.4	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 16000	22.4	31.3	31.4	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 14000	22.4	31.3	31.4	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 12000	22.7	31.8	31.9	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥ 10000	23.9	33.0	33.2	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 9000	24.0	33.4	33.5	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 8000	26.9	37.1	37.2	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 7000	28.1	38.6	38.8	39.3	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥ 6000	28.1	38.9	39.0	39.5	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 5000	29.0	40.0	40.2	40.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 4500	30.4	42.1	42.6	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 4000	30.5	42.7	43.2	44.2	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 3500	32.5	45.7	46.3	47.6	48.0	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 3000	37.2	52.6	53.2	54.8	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 2500	44.7	61.6	62.8	64.5	65.3	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 2000	49.4	70.6	72.0	74.1	75.0	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 1800	49.9	72.6	74.0	76.4	77.3	77.4	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 1500	51.5	76.4	78.5	81.1	82.5	82.5	82.8	83.4	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1200	51.7	77.5	79.7	82.8	84.1	84.5	84.9	85.5	85.8	86.0	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1000	52.1	78.4	80.8	84.2	86.4	86.8	87.4	88.1	88.4	88.9	89.1	89.2	89.2	89.2	89.2	89.2
≥ 900	52.1	78.5	81.1	84.8	86.9	87.3	87.9	88.6	88.9	89.6	89.7	89.8	89.8	89.8	89.8	89.8
≥ 800	52.2	78.8	81.3	85.0	87.5	88.1	88.8	89.6	90.1	90.9	91.0	91.1	91.1	91.1	91.1	91.1
≥ 700	52.2	79.2	82.1	85.9	88.6	89.1	89.8	90.7	91.2	92.0	92.4	92.5	92.5	92.5	92.5	92.5
≥ 600	52.2	79.3	82.2	86.3	89.1	89.7	90.5	91.4	91.9	92.8	93.3	93.8	94.0	94.0	94.0	94.0
≥ 500	52.2	79.4	82.3	86.4	89.2	89.8	90.6	91.7	92.4	93.4	94.0	94.5	94.8	94.8	94.8	94.8
≥ 400	52.2	79.5	82.6	86.7	89.5	90.2	91.1	92.8	93.4	94.7	95.3	95.9	96.3	96.3	96.3	96.3
≥ 300	52.2	79.5	82.6	86.7	89.6	90.5	91.6	93.3	93.9	95.4	96.2	97.1	97.7	97.7	97.7	97.8
≥ 200	52.2	79.5	82.6	86.8	89.7	90.6	91.7	93.5	94.2	96.1	97.0	97.8	98.5	98.5	98.5	99.1
≥ 100	52.2	79.5	82.6	86.8	89.7	90.6	91.9	93.6	94.3	96.2	97.1	98.1	98.7	98.7	99.0	99.6
≥ 0	52.2	79.5	82.6	86.8	89.7	90.6	91.9	93.6	94.3	96.2	97.1	98.1	98.7	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 787

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7 639	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST: 1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	20.5	28.4	29.3	29.7	29.7	29.7	29.7	29.7	29.7	29.8	29.9	29.9	30.1	30.1	30.1	30.1
≥ 20000	21.5	30.2	31.2	31.6	31.6	31.6	31.6	31.6	31.6	31.7	31.8	31.8	32.0	32.0	32.0	32.0
≥ 18000	21.7	30.3	31.3	31.7	31.7	31.7	31.7	31.7	31.7	31.8	32.0	32.0	32.1	32.1	32.1	32.1
≥ 16000	21.7	30.3	31.3	31.7	31.7	31.7	31.7	31.7	31.7	31.8	32.0	32.0	32.1	32.1	32.1	32.1
≥ 14000	21.7	30.6	31.6	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.2	32.4	32.4	32.4	32.4
≥ 12000	22.0	31.0	32.0	32.4	32.4	32.4	32.4	32.4	32.4	32.5	32.6	32.6	32.7	32.7	32.7	32.7
≥ 10000	22.8	31.8	32.9	33.2	33.2	33.2	33.2	33.2	33.2	33.4	33.5	33.5	33.6	33.6	33.6	33.6
≥ 9000	23.1	32.2	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.8	33.9	33.9	34.0	34.0	34.0	34.0
≥ 8000	24.2	34.4	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.9	36.1	36.1	36.2	36.2	36.2	36.2
≥ 7000	25.0	35.9	36.9	37.3	37.3	37.3	37.3	37.3	37.3	37.5	37.6	37.6	37.7	37.7	37.7	37.7
≥ 6000	25.7	36.9	38.0	38.3	38.3	38.3	38.3	38.3	38.3	38.5	38.6	38.6	38.7	38.7	38.7	38.7
≥ 5000	27.1	39.1	40.1	40.6	40.6	40.6	40.6	40.6	40.6	40.8	40.9	40.9	41.0	41.0	41.0	41.0
≥ 4500	28.2	40.8	41.8	42.8	42.8	42.8	42.9	42.9	42.9	43.1	43.2	43.2	43.3	43.3	43.3	43.3
≥ 4000	28.9	42.3	43.3	44.3	44.3	44.3	44.5	44.5	44.5	44.6	44.7	44.7	44.8	44.8	44.8	44.8
≥ 3500	32.1	46.8	47.9	48.9	48.9	48.9	49.0	49.0	49.0	49.2	49.3	49.3	49.4	49.4	49.4	49.4
≥ 3000	38.1	55.2	56.6	58.1	58.2	58.2	58.3	58.5	58.5	58.6	58.7	58.7	58.9	58.9	58.9	58.9
≥ 2500	42.9	61.8	63.4	65.0	65.7	65.9	66.0	66.1	66.1	66.2	66.4	66.4	66.5	66.5	66.5	66.5
≥ 2000	46.6	67.9	69.7	71.7	72.5	72.7	73.0	73.1	73.1	73.2	73.4	73.4	73.5	73.5	73.5	73.5
≥ 1800	49.2	71.2	73.1	75.2	76.1	76.3	76.7	76.9	76.9	77.1	77.2	77.2	77.3	77.3	77.3	77.3
≥ 1500	51.0	75.5	78.1	80.5	81.4	81.7	82.3	82.9	82.9	83.2	83.3	83.3	83.4	83.4	83.4	83.4
≥ 1200	51.3	76.4	79.0	81.8	82.7	83.1	83.7	84.3	84.3	84.6	84.7	84.7	84.8	84.8	84.8	84.8
≥ 1000	51.5	77.2	80.3	83.1	83.9	84.5	85.2	85.9	85.9	86.4	86.5	86.5	86.6	86.6	86.6	86.6
≥ 900	51.5	77.3	80.4	83.2	84.1	84.6	85.5	86.1	86.2	86.8	86.9	86.9	87.0	87.0	87.0	87.0
≥ 800	51.6	77.6	80.6	83.7	84.8	85.5	86.5	87.4	87.8	88.4	88.5	88.5	88.7	88.7	88.7	88.7
≥ 700	52.0	78.0	81.3	84.3	85.7	86.4	87.5	88.5	88.9	89.8	89.9	89.9	90.1	90.1	90.1	90.1
≥ 600	52.0	78.0	81.4	84.6	86.2	87.0	88.2	89.3	89.8	90.7	91.0	91.0	91.1	91.1	91.1	91.1
≥ 500	52.0	78.0	81.7	85.0	86.6	87.4	88.9	90.2	90.7	92.0	92.4	92.4	92.6	92.6	92.6	92.6
≥ 400	52.0	78.0	81.8	86.0	88.0	88.8	90.4	91.8	92.5	94.3	95.0	95.2	95.4	95.4	95.4	95.4
≥ 300	52.0	78.0	81.9	86.1	88.4	89.4	91.2	92.9	93.9	96.2	96.9	97.1	97.5	97.5	97.5	97.5
≥ 200	52.0	78.0	81.9	86.1	88.4	89.6	91.3	93.6	94.8	97.1	97.8	98.0	98.3	98.3	98.3	98.7
≥ 100	52.0	78.0	81.9	86.1	88.4	89.6	91.3	93.8	94.9	97.3	98.1	98.3	99.0	99.0	99.1	99.6
≥ 0	52.0	78.0	81.9	86.1	88.4	89.6	91.3	93.8	94.9	97.3	98.1	98.3	99.0	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 785

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
7[illegible]59	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST) 2100-2300

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	18.7	27.5	28.1	28.3	28.9	28.9	28.9	28.9	28.9	29.2	29.2	29.3	29.4	29.4	29.4	29.6
≥ 20000	19.0	28.7	29.2	29.4	30.1	30.1	30.1	30.1	30.1	30.3	30.3	30.4	30.6	30.6	30.6	30.7
≥ 18000	19.0	28.7	29.2	29.4	30.1	30.1	30.1	30.1	30.1	30.3	30.3	30.4	30.6	30.6	30.6	30.7
≥ 16000	19.0	28.7	29.2	29.4	30.1	30.1	30.1	30.1	30.1	30.3	30.3	30.4	30.6	30.6	30.6	30.7
≥ 14000	19.0	29.1	29.6	29.8	30.4	30.4	30.4	30.4	30.4	30.7	30.7	30.8	30.9	30.9	30.9	31.1
≥ 12000	19.2	29.4	29.9	30.2	30.8	30.8	30.8	30.8	30.8	31.1	31.1	31.2	31.3	31.3	31.3	31.4
≥ 10000	20.0	30.4	30.9	31.2	31.8	31.8	31.8	31.8	31.8	32.1	32.1	32.2	32.3	32.3	32.3	32.5
≥ 9000	20.0	30.6	31.1	31.3	31.9	31.9	31.9	31.9	31.9	32.2	32.2	32.3	32.5	32.5	32.5	32.6
≥ 8000	21.5	32.6	33.1	33.3	34.0	34.0	34.0	34.0	34.0	34.2	34.2	34.3	34.5	34.5	34.5	34.6
≥ 7000	22.4	34.2	34.7	35.0	35.6	35.6	35.6	35.6	35.6	35.8	35.8	36.0	36.1	36.1	36.1	36.2
≥ 6000	23.4	35.2	35.7	36.2	36.9	36.9	36.9	36.9	36.9	37.1	37.1	37.2	37.4	37.4	37.4	37.5
≥ 5000	25.8	37.9	38.4	38.9	39.5	39.5	39.5	39.5	39.5	39.7	39.7	39.9	40.0	40.0	40.0	40.1
≥ 4500	27.9	40.8	41.6	42.3	42.9	42.9	42.9	42.9	42.9	43.3	43.3	43.4	43.5	43.5	43.5	43.6
≥ 4000	28.8	42.5	43.5	44.2	44.8	44.8	44.8	44.8	44.8	45.2	45.2	45.3	45.4	45.4	45.4	45.5
≥ 3500	31.4	47.0	48.4	49.2	49.8	49.8	49.8	49.8	49.8	50.2	50.2	50.3	50.4	50.4	50.4	50.6
≥ 3000	35.5	55.3	56.7	57.7	58.4	58.4	58.4	58.5	58.5	58.9	58.9	59.0	59.1	59.1	59.1	59.2
≥ 2500	41.3	63.6	65.0	66.0	66.8	66.8	66.8	66.9	66.9	67.3	67.3	67.4	67.5	67.5	67.5	67.7
≥ 2000	46.5	71.4	73.2	74.5	75.6	75.6	75.6	75.8	75.8	76.2	76.2	76.4	76.5	76.5	76.5	76.6
≥ 1800	48.2	74.1	76.0	77.4	78.5	78.5	78.5	78.7	78.7	79.1	79.4	79.5	79.6	79.6	79.6	79.7
≥ 1500	49.7	77.6	79.7	81.1	82.3	82.3	82.4	82.9	82.9	83.3	83.5	83.6	83.8	83.8	83.8	83.9
≥ 1200	50.2	79.2	81.5	82.9	84.2	84.2	84.3	85.0	85.2	85.5	85.8	85.9	86.0	86.0	86.0	86.2
≥ 1000	50.4	80.3	82.5	84.2	85.5	85.5	85.8	86.8	86.9	87.3	87.5	87.7	87.8	87.8	87.8	87.9
≥ 900	50.4	80.5	82.8	84.4	85.9	85.9	86.2	87.2	87.3	87.7	87.9	88.1	88.2	88.2	88.2	88.3
≥ 800	50.4	80.5	83.1	84.8	86.3	86.3	86.5	87.7	87.8	88.4	88.7	88.8	88.9	88.9	88.9	89.1
≥ 700	50.4	80.5	83.8	85.5	87.3	87.3	87.7	88.9	89.1	89.8	90.1	90.2	90.3	90.3	90.3	90.4
≥ 600	50.4	80.6	83.9	85.9	87.9	88.1	88.4	89.8	89.9	90.7	90.9	91.1	91.2	91.2	91.2	91.3
≥ 500	50.4	80.8	84.0	86.3	88.6	88.7	89.1	90.6	90.7	91.9	92.3	92.5	92.6	92.6	92.6	92.7
≥ 400	50.4	81.0	84.4	87.3	89.8	89.9	90.6	92.1	92.5	94.0	94.5	94.6	95.1	95.1	95.1	95.2
≥ 300	50.4	81.0	84.4	87.8	90.4	90.6	91.3	93.2	93.6	95.2	95.8	96.0	96.5	96.5	96.5	96.6
≥ 200	50.4	81.0	84.5	87.9	90.6	90.7	91.6	93.7	94.1	96.0	96.7	96.9	97.4	97.4	97.4	97.5
≥ 100	50.4	81.0	84.5	87.9	90.6	90.7	91.7	93.8	94.2	96.4	97.4	97.5	98.1	98.4	98.7	99.0
≥ 0	50.4	81.0	84.5	87.9	90.6	90.7	91.7	93.8	94.2	96.4	97.4	97.6	98.2	98.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 795

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST): ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥7/16	≥¼	≥0
NO CEILING	18.5	26.7	27.6	28.1	28.6	28.7	28.8	28.9	28.9	29.0	29.1	29.2	29.3	29.3	29.4	29.6
≥ 20000	19.5	28.5	29.5	30.0	30.5	30.6	30.7	30.8	30.8	31.0	31.1	31.1	31.3	31.3	31.4	31.6
≥ 18000	19.5	28.5	29.5	30.0	30.5	30.6	30.8	30.8	30.8	31.0	31.1	31.2	31.3	31.3	31.4	31.6
≥ 16000	19.5	28.5	29.5	30.0	30.5	30.6	30.8	30.8	30.8	31.0	31.1	31.2	31.3	31.3	31.4	31.6
≥ 14000	19.5	28.7	29.7	30.2	30.7	30.8	30.9	31.0	31.0	31.2	31.3	31.3	31.5	31.5	31.6	31.7
≥ 12000	19.8	29.1	30.1	30.6	31.1	31.2	31.4	31.5	31.5	31.7	31.7	31.8	32.0	32.0	32.0	32.2
≥ 10000	20.8	30.3	31.3	31.9	32.4	32.5	32.7	32.8	32.8	32.9	33.0	33.1	33.2	33.3	33.3	33.5
≥ 9000	20.9	30.4	31.4	32.0	32.5	32.6	32.8	32.8	32.9	33.0	33.1	33.2	33.3	33.4	33.4	33.6
≥ 8000	22.8	32.9	34.0	34.5	35.1	35.2	35.4	35.5	35.5	35.7	35.8	35.8	36.0	36.0	36.1	36.2
≥ 7000	24.0	34.5	35.5	36.1	36.7	36.8	37.0	37.1	37.1	37.3	37.4	37.4	37.6	37.6	37.6	37.8
≥ 6000	24.6	35.3	36.4	37.0	37.6	37.7	37.9	38.0	38.0	38.2	38.3	38.3	38.5	38.5	38.6	38.7
≥ 5000	25.4	37.2	38.4	39.1	39.8	39.9	40.1	40.2	40.2	40.4	40.5	40.5	40.7	40.7	40.8	41.0
≥ 4500	27.6	39.6	41.0	41.8	42.5	42.7	42.9	43.0	43.0	43.2	43.3	43.3	43.5	43.5	43.6	43.8
≥ 4000	28.3	40.8	42.3	43.0	43.8	43.9	44.2	44.2	44.3	44.5	44.6	44.6	44.8	44.8	44.9	45.1
≥ 3500	31.1	45.1	46.7	47.6	48.4	48.5	48.8	48.9	48.9	49.1	49.2	49.3	49.4	49.4	49.5	49.7
≥ 3000	35.3	51.6	53.6	54.6	55.6	55.7	56.0	56.2	56.2	56.4	56.5	56.6	56.8	56.8	56.9	57.1
≥ 2500	40.4	59.7	61.9	63.1	64.3	64.6	64.9	65.1	65.1	65.4	65.5	65.5	65.7	65.8	65.9	66.1
≥ 2000	44.7	67.3	69.8	71.2	72.6	73.0	73.4	73.6	73.6	73.8	74.0	74.0	74.2	74.2	74.3	74.5
≥ 1800	46.0	69.6	72.0	73.6	75.1	75.5	75.9	76.1	76.1	76.4	76.6	76.6	76.8	76.8	76.9	77.1
≥ 1500	47.9	73.9	76.8	78.6	80.4	80.8	81.4	81.8	81.9	82.3	82.5	82.6	82.7	82.8	82.9	83.1
≥ 1200	48.5	75.5	78.5	80.5	82.4	82.9	83.6	84.2	84.3	84.6	84.9	84.9	85.2	85.2	85.3	85.5
≥ 1000	48.8	76.6	79.8	81.9	84.1	84.6	85.4	86.0	86.2	86.7	87.0	87.1	87.3	87.3	87.4	87.6
≥ 900	48.8	76.9	80.2	82.4	84.6	85.1	85.9	86.6	86.8	87.3	87.6	87.7	87.9	88.0	88.1	88.3
≥ 800	48.9	77.3	80.7	82.9	85.3	86.0	86.8	87.6	87.9	88.5	88.8	88.9	89.2	89.2	89.3	89.5
≥ 700	49.1	77.7	81.3	83.7	86.2	86.8	87.7	88.7	89.0	89.6	90.0	90.1	90.3	90.4	90.5	90.7
≥ 600	49.1	77.9	81.7	84.2	86.8	87.6	88.5	89.5	89.8	90.5	90.9	91.1	91.4	91.5	91.6	91.8
≥ 500	49.1	78.0	81.9	84.5	87.3	88.1	89.2	90.4	90.8	91.8	92.3	92.6	92.9	93.0	93.1	93.3
≥ 400	49.1	78.2	82.3	85.1	88.1	89.0	90.3	91.7	92.2	93.5	94.1	94.5	94.9	95.0	95.1	95.3
≥ 300	49.1	78.2	82.3	85.4	88.5	89.5	91.1	92.8	93.3	94.7	95.6	95.9	96.4	96.5	96.7	96.9
≥ 200	49.1	78.2	82.4	85.5	88.7	89.7	91.5	93.3	93.9	95.5	96.6	97.0	97.6	97.7	97.9	98.3
≥ 100	49.1	78.2	82.4	85.5	88.7	89.7	91.5	93.4	94.0	95.7	96.9	97.3	98.1	98.3	98.8	99.3
≥ 0	49.1	78.2	82.4	85.5	88.7	89.7	91.5	93.4	94.0	95.7	96.9	97.4	98.1	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6293

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	21.7	28.6	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
≥ 20000	22.3	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 18000	22.3	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 16000	22.3	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 14000	22.3	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 12000	22.4	30.3	30.5	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 10000	23.7	31.2	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 9000	23.7	31.4	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 8000	24.1	32.0	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥ 7000	24.6	32.8	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 6000	25.4	33.7	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 5000	26.8	35.2	35.5	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 4500	28.6	37.9	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 4000	28.7	38.2	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 3500	29.9	39.9	40.5	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥ 3000	33.2	44.3	45.4	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 2500	37.8	51.2	52.8	53.9	54.6	54.6	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 2000	40.9	60.5	63.0	65.1	66.1	66.3	66.8	67.2	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 1800	42.9	63.8	66.6	69.0	70.1	70.6	71.2	71.6	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 1500	44.8	70.3	73.8	76.2	77.6	78.2	79.2	80.2	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1200	46.3	73.3	77.2	79.7	81.3	81.9	83.0	84.2	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1000	46.6	74.8	79.4	81.9	83.7	84.3	86.2	87.4	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 900	46.9	75.3	80.0	82.5	84.3	84.9	86.9	88.2	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	46.8	75.7	80.5	83.0	84.9	85.5	87.5	88.8	89.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 700	47.0	76.3	81.4	84.2	86.0	86.7	88.7	90.0	90.4	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 600	47.0	76.4	81.7	84.4	86.3	87.2	89.3	90.6	91.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1
≥ 500	47.0	76.8	82.3	85.2	87.4	88.3	90.8	92.3	92.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9
≥ 400	47.0	76.9	82.4	85.5	87.9	89.0	91.6	93.1	93.9	95.0	95.3	95.4	95.4	95.4	95.4	95.4
≥ 300	47.0	76.9	82.5	85.9	89.0	90.3	93.0	94.6	95.4	96.5	97.1	97.3	97.4	97.5	97.5	97.5
≥ 200	47.0	76.9	82.5	85.9	89.0	90.3	93.0	94.8	95.5	96.6	97.4	97.5	97.9	98.1	98.1	98.1
≥ 100	47.0	76.9	82.5	85.9	89.0	90.3	93.0	94.8	95.5	96.6	97.4	97.5	98.0	98.3	98.3	99.1
≥ 0	47.0	76.9	82.5	85.9	89.0	90.3	93.0	94.8	95.5	96.6	97.4	97.5	98.0	98.3	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 802

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7 639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 (HOURS LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥	≥5/16	≥¼	≥0
NO CEILING	19.4	26.0	26.8	27.3	27.5	27.5	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.6
≥ 20000	19.9	26.6	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3
≥ 18000	19.9	26.6	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3
≥ 16000	19.9	26.6	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3
≥ 14000	19.9	26.6	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3
≥ 12000	19.9	26.6	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3
≥ 10000	20.8	27.5	28.3	28.8	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1
≥ 9000	20.8	27.5	28.3	28.8	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1
≥ 8000	22.1	28.9	29.6	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5
≥ 7000	23.1	30.3	31.0	31.5	31.8	31.8	31.8	31.8	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9
≥ 6000	24.0	31.1	31.9	32.4	32.6	32.6	32.6	32.6	32.6	32.6	32.8	32.8	32.8	32.8	32.8	32.8
≥ 5000	25.0	32.5	33.3	33.8	34.0	34.0	34.0	34.0	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1
≥ 4500	27.0	35.4	36.1	36.9	37.1	37.1	37.1	37.1	37.1	37.1	37.3	37.3	37.3	37.3	37.3	37.3
≥ 4000	27.0	35.9	36.8	37.5	37.8	37.8	37.8	37.8	37.8	37.8	37.9	37.9	37.9	37.9	37.9	37.9
≥ 3500	28.8	38.4	39.3	40.1	40.4	40.4	40.4	40.4	40.4	40.4	40.5	40.5	40.5	40.5	40.5	40.5
≥ 3000	32.0	43.0	43.9	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6
≥ 2500	36.3	49.9	51.1	52.9	53.4	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5
≥ 2000	40.5	56.9	58.6	61.1	62.5	62.6	62.9	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5
≥ 1800	41.9	60.9	62.8	65.5	66.9	67.3	67.5	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4
≥ 1500	45.4	69.1	72.3	75.6	77.6	78.1	78.9	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1200	47.1	72.4	75.9	79.4	81.8	82.3	83.1	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1000	48.1	74.8	78.5	82.4	85.1	85.8	86.8	88.3	88.3	88.6	88.8	88.8	88.8	88.8	88.8	88.8
≥ 900	48.1	75.9	79.6	83.5	86.5	87.1	88.3	89.8	89.8	90.1	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	48.1	75.9	80.1	84.0	87.1	87.9	89.1	90.6	90.6	91.0	91.1	91.1	91.1	91.1	91.1	91.1
≥ 700	48.1	75.9	81.0	84.9	88.0	88.8	90.6	91.5	91.5	91.9	92.0	92.0	92.0	92.0	92.0	92.0
≥ 600	48.1	75.9	81.1	85.0	88.3	89.0	90.4	91.9	91.9	92.4	92.5	92.5	92.5	92.5	92.5	92.5
≥ 500	48.1	76.1	81.5	85.8	89.0	89.8	91.5	93.0	93.0	93.9	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400	48.1	76.1	81.6	85.9	89.1	90.0	92.0	93.6	93.6	94.6	94.9	94.9	94.9	95.0	95.0	95.0
≥ 300	48.1	76.1	81.8	86.0	89.3	90.1	92.3	94.5	94.5	95.6	96.1	96.1	96.1	96.3	96.3	96.3
≥ 200	48.1	76.1	81.8	86.0	89.4	90.3	93.0	95.5	95.6	96.8	97.5	97.6	98.1	98.3	98.8	98.8
≥ 100	48.1	76.1	81.8	86.0	89.4	90.3	93.0	95.6	95.9	97.1	97.9	98.0	98.5	98.6	99.4	99.6
≥ 0	48.1	76.1	81.8	86.0	89.4	90.3	93.0	95.6	95.9	97.1	97.9	98.0	98.5	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 800

USAF ETAC FORM NO. 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 (HOURS LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	14.4	21.2	21.7	22.1	22.6	22.6	22.9	23.0	23.0	23.2	23.2	23.2	23.2	23.2	23.2	23.2
≥ 20000	14.9	21.7	22.2	22.6	23.0	23.0	23.4	23.5	23.5	23.7	23.7	23.7	23.7	23.7	23.7	23.7
≥ 18000	15.1	21.8	22.3	22.7	23.2	23.2	23.5	23.7	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8
≥ 16000	15.1	21.8	22.3	22.7	23.2	23.2	23.5	23.7	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8
≥ 14000	15.2	21.8	22.3	22.7	23.2	23.2	23.5	23.7	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8
≥ 12000	15.2	22.1	22.6	22.9	23.4	23.4	23.8	23.9	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0
≥ 10000	16.5	23.4	23.9	24.3	24.8	24.8	25.1	25.2	25.2	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 9000	16.5	23.4	23.9	24.3	24.8	24.8	25.1	25.2	25.2	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 8000	17.1	24.3	24.8	25.1	25.6	25.6	26.0	26.1	26.1	26.2	26.2	26.2	26.2	26.2	26.2	26.2
≥ 7000	18.5	26.1	26.6	27.0	27.4	27.4	27.8	27.9	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0
≥ 6000	19.1	27.0	27.4	27.8	28.3	28.3	28.7	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9
≥ 5000	20.6	28.8	29.4	29.8	30.2	30.2	30.6	30.7	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 4500	22.1	30.4	31.1	31.7	32.2	32.2	32.6	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	32.8
≥ 4000	22.9	32.0	32.8	33.7	34.1	34.1	34.5	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 3500	25.1	34.8	35.7	36.7	37.3	37.3	37.7	37.8	37.8	37.9	37.9	37.9	37.9	37.9	37.9	37.9
≥ 3000	28.0	38.2	39.1	40.5	41.3	41.3	41.7	41.8	41.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 2500	32.4	45.5	46.6	47.9	49.3	49.5	50.1	50.2	50.2	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 2000	36.2	52.6	53.9	55.7	58.2	58.4	59.1	59.6	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 1800	37.3	56.1	57.9	60.0	62.4	62.8	63.7	64.1	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 1500	40.1	62.7	64.6	67.0	70.6	71.6	73.0	74.3	74.3	74.9	75.0	75.0	75.0	75.0	75.0	75.0
≥ 1200	41.0	67.4	69.6	72.0	76.1	77.1	78.5	80.0	80.0	80.6	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1000	41.6	69.1	72.3	74.6	79.6	81.0	82.8	84.5	84.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7
≥ 900	41.7	69.8	72.9	75.4	80.5	81.8	83.7	85.4	85.4	86.5	86.6	86.6	86.6	86.6	86.6	86.6
≥ 800	42.0	70.5	74.0	77.0	82.7	84.5	86.5	88.2	88.2	89.5	89.6	89.6	89.6	89.6	89.8	89.8
≥ 700	42.1	71.0	74.8	77.7	83.4	85.0	87.2	89.1	89.3	90.6	90.9	90.9	90.9	90.9	91.0	91.0
≥ 600	42.1	71.0	75.0	78.2	83.9	85.6	88.0	90.1	90.2	91.6	92.0	92.1	92.2	92.2	92.3	92.3
≥ 500	42.1	71.2	75.5	78.7	84.5	86.2	89.3	91.5	91.6	93.0	93.5	93.8	93.9	93.9	94.0	94.1
≥ 400	42.1	71.2	75.7	79.0	85.1	87.0	90.0	92.2	92.3	94.0	94.5	94.9	95.1	95.1	95.2	95.4
≥ 300	42.1	71.3	75.9	79.1	85.2	87.1	90.2	92.8	92.9	94.6	95.5	95.9	96.1	96.1	96.2	96.5
≥ 200	42.1	71.3	76.0	79.3	85.5	87.4	90.6	93.8	94.0	96.0	97.3	97.8	98.3	98.4	98.5	98.8
≥ 100	42.1	71.3	76.0	79.3	85.5	87.4	90.6	93.8	94.0	96.1	97.6	98.0	98.5	98.8	98.9	99.4
≥ 0	42.1	71.3	76.0	79.3	85.5	87.4	90.6	93.8	94.0	96.1	97.6	98.0	98.5	98.8	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 820

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

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST) 0900-1100

CEILING FEET	VISIBILITY STATUTE MILES ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	15.1	20.2	20.7	20.8	21.3	21.9	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
≥ 20000	16.5	22.2	22.7	22.9	23.5	24.2	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
≥ 18000	16.6	22.6	23.0	23.3	23.9	24.5	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
≥ 16000	16.6	22.6	23.0	23.3	23.9	24.5	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
≥ 14000	16.7	22.7	23.2	23.4	24.0	24.7	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
≥ 12000	16.9	22.8	23.3	23.5	24.2	24.8	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
≥ 10000	18.1	24.7	25.2	25.4	26.3	26.9	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 9000	18.2	24.8	25.3	25.5	26.4	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
≥ 8000	19.2	25.8	26.3	26.5	27.4	28.0	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
≥ 7000	20.2	27.0	27.5	28.0	28.9	29.5	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 6000	21.1	28.1	28.6	29.1	30.0	30.6	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 5000	22.2	29.6	30.1	30.6	31.5	32.1	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 4500	22.7	30.5	31.0	31.5	32.3	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 4000	23.2	31.0	32.1	32.6	33.5	34.1	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
≥ 3500	24.3	33.5	34.1	34.8	35.7	36.3	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 3000	27.0	37.5	38.3	39.2	40.0	40.9	41.3	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 2500	31.0	43.2	44.6	45.7	47.2	48.3	48.9	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 2000	34.7	49.9	51.5	53.2	55.5	56.8	57.6	57.9	57.9	58.5	58.7	58.7	58.7	58.9	58.9	58.9
≥ 1800	35.2	52.0	53.8	55.9	58.4	59.6	60.6	61.0	61.0	61.7	62.1	62.1	62.1	62.2	62.2	62.2
≥ 1500	37.2	59.1	62.1	64.6	67.5	69.4	70.8	72.2	72.5	73.4	73.9	73.9	73.9	74.0	74.0	74.0
≥ 1200	37.7	62.3	65.4	68.2	71.3	73.6	75.1	77.0	77.2	78.3	78.9	78.9	78.9	79.1	79.1	79.1
≥ 1000	38.2	64.1	67.5	70.5	74.2	76.6	78.3	80.7	80.9	82.9	83.9	83.9	84.3	84.4	84.5	84.5
≥ 900	38.2	64.6	68.0	71.1	74.8	77.2	78.9	81.5	81.8	83.9	85.1	85.1	85.5	85.6	85.7	85.7
≥ 800	38.3	65.3	68.9	72.5	76.5	78.8	80.5	83.3	83.8	86.1	87.6	88.0	88.5	88.6	88.7	88.7
≥ 700	38.3	65.8	69.4	73.2	77.3	79.8	81.7	84.5	85.3	87.6	89.3	89.8	90.3	90.5	90.6	90.6
≥ 600	38.5	66.2	69.9	73.9	78.6	81.0	82.9	86.1	86.9	89.3	91.2	91.7	92.3	92.4	92.6	92.6
≥ 500	38.5	66.2	69.9	74.0	79.1	81.8	83.9	87.2	88.1	90.7	92.7	93.2	94.2	94.3	94.5	94.5
≥ 400	38.5	66.2	69.9	74.1	79.2	82.0	84.4	87.9	88.7	91.4	93.4	93.9	95.2	95.4	95.7	95.7
≥ 300	38.5	66.2	69.9	74.3	79.4	82.4	84.9	88.5	89.5	92.4	94.9	95.4	96.7	97.1	97.4	97.4
≥ 200	38.5	66.2	69.9	74.3	79.4	82.4	85.0	88.7	89.7	92.7	95.3	95.9	97.6	98.1	99.1	99.3
≥ 100	38.5	66.2	69.9	74.3	79.4	82.4	85.0	88.7	89.7	92.7	95.3	95.9	97.6	98.3	99.4	100.0
≥ 0	38.5	66.2	69.9	74.3	79.4	82.4	85.0	88.7	89.7	92.7	95.3	95.9	97.6	98.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 807

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST): 1200-1400

CEILING FEET	VISIBILITY (STATUTE MILES) ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	17.5	23.5	24.0	24.4	24.4	24.5	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
≥ 20000	19.5	26.3	26.9	27.4	27.4	27.6	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 18000	19.5	26.6	27.2	27.7	27.7	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
≥ 16000	19.5	26.6	27.2	27.7	27.7	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
≥ 14000	19.5	26.6	27.2	27.7	27.7	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
≥ 12000	19.8	27.2	27.8	28.3	28.3	28.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
≥ 10000	20.5	28.9	29.5	30.0	30.1	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 9000	20.5	29.0	29.6	30.1	30.3	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥ 8000	20.9	29.6	30.3	30.8	30.9	31.0	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 7000	21.5	30.5	31.1	31.6	31.7	31.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 6000	21.5	30.9	31.5	32.0	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 5000	22.9	32.3	33.1	33.6	33.7	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 4500	23.6	33.7	34.4	35.1	35.2	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 4000	25.7	34.5	35.1	35.8	35.9	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 3500	24.4	34.9	36.0	36.8	36.9	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 3000	26.5	37.4	38.5	39.2	39.4	39.7	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥ 2500	30.0	42.8	44.0	45.4	45.6	46.2	46.6	46.9	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 2000	34.2	51.4	53.3	55.2	56.2	56.9	57.8	58.2	58.2	58.3	58.5	58.5	58.5	58.5	58.5	58.5
≥ 1800	36.3	55.6	57.6	59.8	60.8	61.7	62.7	63.3	63.3	63.5	63.7	63.7	63.7	63.7	63.7	63.7
≥ 1500	38.5	64.1	67.5	70.5	72.9	74.0	75.5	77.2	77.4	77.9	78.6	78.6	78.6	78.6	78.6	78.6
≥ 1200	38.6	66.4	69.5	72.8	76.0	77.4	79.0	80.9	81.1	81.8	82.9	83.0	83.0	83.0	83.0	83.0
≥ 1000	38.6	68.4	71.7	75.5	78.8	80.2	81.9	84.4	84.5	85.9	87.3	87.5	87.5	87.5	87.5	87.5
≥ 900	38.6	69.0	72.4	76.8	80.2	81.5	83.5	86.0	86.2	87.6	89.2	89.3	89.3	89.3	89.3	89.3
≥ 800	38.6	69.5	72.9	77.4	81.3	82.7	84.7	87.3	87.6	89.1	90.9	91.1	91.1	91.1	91.1	91.1
≥ 700	38.7	69.7	73.2	78.0	82.2	83.6	85.7	88.6	88.8	90.5	92.4	92.6	92.6	92.6	92.6	92.6
≥ 600	38.7	70.0	73.6	78.5	82.7	84.1	86.3	89.2	89.5	91.3	93.1	93.4	93.5	93.5	93.5	93.5
≥ 500	38.7	70.0	73.6	79.1	83.6	85.1	87.6	90.5	90.9	92.7	94.6	94.8	95.2	95.2	95.2	95.2
≥ 400	38.7	70.0	73.6	79.1	83.6	85.4	88.3	91.5	91.9	94.0	95.8	96.1	96.8	96.8	96.8	96.8
≥ 300	38.7	70.0	73.6	79.1	83.6	85.5	88.6	91.9	92.3	94.6	96.9	97.2	98.0	98.0	98.2	98.2
≥ 200	38.7	70.0	73.6	79.1	83.6	85.5	88.6	91.9	92.3	94.6	96.9	97.3	98.9	98.9	99.5	99.6
≥ 100	38.7	70.0	73.6	79.1	83.6	85.5	88.6	91.9	92.3	94.6	96.9	97.3	98.9	99.0	99.8	100.0
≥ 0	38.7	70.0	73.6	79.1	83.6	85.5	88.6	91.9	92.3	94.6	96.9	97.3	98.9	99.0	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 815

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTHS
726341	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥ 5/16	≥¼	≥0
NO CEILING	16.4	22.3	22.6	22.6	22.6	22.6	22.7	23.0	23.0	23.1	23.2	23.2	23.2	23.2	23.2
≥ 20000	18.2	25.6	26.2	26.2	26.2	26.2	26.3	26.6	26.6	26.7	26.8	26.8	26.8	26.8	26.8
≥ 18000	18.2	25.6	26.2	26.2	26.2	26.2	26.3	26.6	26.6	26.7	26.8	26.8	26.8	26.8	26.8
≥ 16000	18.2	25.6	26.2	26.2	26.2	26.2	26.3	26.6	26.6	26.7	26.8	26.8	26.8	26.8	26.8
≥ 14000	18.7	26.1	26.7	26.7	26.7	26.7	26.8	27.0	27.0	27.2	27.3	27.3	27.3	27.3	27.3
≥ 12000	19.2	26.9	27.5	27.5	27.5	27.5	27.7	27.9	27.9	28.0	28.2	28.2	28.2	28.2	28.2
≥ 10000	20.2	28.9	29.5	29.5	29.5	29.5	29.7	29.9	29.9	30.0	30.1	30.1	30.1	30.1	30.1
≥ 9000	20.5	29.3	29.9	29.9	29.9	29.9	30.0	30.3	30.3	30.4	30.5	30.5	30.5	30.5	30.5
≥ 8000	21.7	31.3	32.0	32.0	32.0	32.1	32.3	32.5	32.5	32.6	32.8	32.8	32.8	32.8	32.8
≥ 7000	22.5	32.4	33.1	33.1	33.1	33.3	33.4	33.6	33.6	33.7	33.9	33.9	33.9	33.9	33.9
≥ 6000	23.3	33.8	34.1	34.1	34.1	34.2	34.4	34.6	34.6	34.7	34.9	34.9	34.9	34.9	34.9
≥ 5000	24.6	35.4	36.1	36.1	36.1	36.2	36.4	36.6	36.6	36.7	36.8	36.8	36.8	36.8	36.8
≥ 4500	25.9	37.1	37.8	37.8	37.8	38.1	38.3	38.6	38.6	38.7	38.8	38.8	38.8	38.8	38.8
≥ 4000	26.3	37.6	38.3	38.3	38.3	38.6	38.8	39.1	39.1	39.2	39.3	39.3	39.3	39.3	39.3
≥ 3500	27.2	38.8	39.7	39.7	39.7	40.1	40.3	40.6	40.6	40.7	40.8	40.8	40.8	40.8	40.8
≥ 3000	29.3	42.1	43.4	43.4	43.4	43.9	44.2	44.4	44.4	44.5	44.7	44.7	44.7	44.7	44.7
≥ 2500	34.0	50.2	52.1	53.0	53.1	53.8	54.2	54.5	54.5	54.6	54.7	54.7	54.7	54.7	54.7
≥ 2000	38.7	58.6	60.9	62.7	63.0	64.0	64.6	65.0	65.0	65.3	65.4	65.4	65.4	65.4	65.4
≥ 1800	40.2	62.7	65.6	67.5	68.2	69.4	70.1	71.0	71.0	71.2	71.5	71.5	71.5	71.5	71.5
≥ 1500	41.8	68.4	72.2	74.6	76.1	77.8	79.0	80.6	80.6	81.5	82.0	82.1	82.1	82.1	82.1
≥ 1200	41.8	69.6	73.9	76.8	78.7	80.5	82.0	84.0	84.1	85.1	85.9	86.0	86.0	86.0	86.0
≥ 1000	41.9	71.0	75.4	78.5	80.6	82.9	84.4	86.6	87.0	88.1	89.0	89.1	89.1	89.1	89.1
≥ 900	41.9	71.1	75.6	78.7	80.9	83.1	84.7	87.0	87.3	88.5	89.5	89.7	89.7	89.7	89.7
≥ 800	41.9	71.3	76.1	79.3	81.5	83.9	85.6	87.8	88.2	89.5	90.4	90.7	90.9	90.9	90.9
≥ 700	41.9	71.6	76.6	80.0	82.6	85.0	86.8	89.1	89.5	90.8	92.1	92.4	92.7	92.7	92.7
≥ 600	41.9	71.6	76.8	80.4	83.1	85.6	87.7	90.1	90.4	91.9	93.3	93.7	94.3	94.3	94.3
≥ 500	41.9	71.7	77.0	80.8	83.6	86.1	88.3	90.9	91.6	93.1	94.7	95.0	95.9	96.2	96.2
≥ 400	41.9	71.7	77.0	80.9	84.2	86.7	89.0	91.7	92.4	94.5	96.2	96.5	97.6	97.9	98.0
≥ 300	41.9	71.7	77.0	80.9	84.2	86.7	89.1	91.8	92.6	94.8	96.7	97.0	98.1	98.5	98.8
≥ 200	41.9	71.7	77.0	80.9	84.2	86.7	89.1	91.8	92.6	95.0	97.0	97.4	98.5	99.1	99.5	99.5
≥ 100	41.9	71.7	77.0	80.9	84.2	86.7	89.1	91.8	92.6	95.0	97.1	97.5	98.6	99.4	99.9	100.0
≥ 0	41.9	71.7	77.0	80.9	84.2	86.7	89.1	91.8	92.6	95.0	97.1	97.5	98.6	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 606

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

[illegible] CLIMA[illegible] BRANCH
[illegible]TAC
[illegible] SERVICE/MAC

CEILING VERSUS VISIBILITY

[illegible] STATION | [illegible]-COLLINS/ALPENA MI STATION NAME | 73-81 YEARS | DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000 HOURS (LST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.4	25.[illegible]	25.5	25.5	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 20000	23.4	28.4	28.8	28.8	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 18000	20.4	28.5	29.[illegible]	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
≥ 16000	20.4	28.5	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
≥ 14000	20.5	29.6	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
≥ 12000	21.0	29.2	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
≥ 10000	21.0	29.8	30.3	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 9000	21.6	29.8	30.3	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 8000	25.1	31.4	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
≥ 7000	24.4	32.8	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 6000	24.7	33.3	33.9	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 5000	25.0	34.0	34.6	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 4500	25.5	35.1	36.1	36.2	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
≥ 4000	25.6	35.6	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 3500	28.1	38.2	39.4	39.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 3000	30.4	41.8	43.7	44.2	44.9	44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 2500	36.3	51.7	54.4	55.5	56.7	56.8	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 2000	40.8	60.9	63.9	65.3	67.9	68.1	68.5	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 1800	41.6	64.5	68.1	69.6	72.1	72.4	73.1	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 1500	43.9	71.5	75.6	77.5	80.6	81.0	82.2	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1200	44.4	73.3	77.9	80.0	83.1	83.6	84.8	85.6	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1000	44.7	74.1	79.8	82.0	85.4	85.9	87.1	88.0	88.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900	44.8	74.4	80.2	82.7	86.4	86.9	88.2	89.1	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 800	44.9	74.7	80.9	83.3	87.5	88.2	89.6	90.4	90.8	91.3	91.3	91.4	91.4	91.4	91.4	91.4
≥ 700	44.9	74.7	81.0	83.4	87.6	88.5	89.9	90.8	91.2	91.7	91.8	91.9	91.9	91.9	91.9	91.9
≥ 600	44.9	74.8	81.2	84.2	88.5	89.4	91.0	92.0	92.5	93.3	93.5	93.6	93.6	93.6	93.6	93.6
≥ 500	45.0	75.0	81.8	84.8	89.2	90.3	92.3	93.4	93.9	94.7	95.0	95.1	95.6	95.6	95.6	95.6
≥ 400	45.0	75.0	81.8	84.9	89.3	90.4	92.5	93.9	94.5	95.3	96.0	96.1	96.7	96.7	96.7	96.7
≥ 300	45.0	75.0	81.8	84.9	89.4	90.6	92.8	94.1	94.7	96.0	96.9	97.1	97.9	98.0	98.0	98.0
≥ 200	45.0	75.0	81.8	84.9	89.4	90.7	92.9	94.2	94.8	96.4	97.7	97.8	98.8	99.0	99.0	99.0
≥ 100	45.0	75.0	81.8	84.9	89.4	90.7	92.9	94.2	94.8	96.6	97.8	97.9	98.9	99.1	99.4	100.0
≥ 0	45.0	75.0	81.8	84.9	89.4	90.7	92.9	94.2	94.8	96.6	97.8	97.9	98.9	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 815

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

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
72739	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	19.4	25.1	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.5	25.5	25.5	25.6	25.6	25.6	25.6
≥ 20000	20.6	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.6	27.6	27.6	27.6
≥ 18000	20.6	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.6	27.6	27.6	27.6
≥ 16000	20.6	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.6	27.6	27.6	27.6
≥ 14000	20.7	27.1	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.7	27.7	27.7	27.7
≥ 12000	21.0	27.3	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.8	27.8	27.8	27.9	27.9	27.9	27.9
≥ 10000	22.1	28.4	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9	28.9	29.0	29.0	29.0	29.0
≥ 9000	22.1	28.7	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.2	29.2	29.2	29.3	29.3	29.3	29.3
≥ 8000	22.3	29.7	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.3	30.3	30.3	30.4	30.4	30.4	30.4
≥ 7000	22.7	30.4	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.0	31.0	31.0	31.1	31.1	31.1	31.1
≥ 6000	23.5	31.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.4	32.4	32.4	32.4
≥ 5000	24.8	33.1	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.8	33.8	33.9	33.9	33.9	33.9
≥ 4500	25.6	35.4	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.4	36.4	36.4	36.5	36.5	36.5	36.5
≥ 4000	25.9	35.8	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.8	36.8	36.8	36.9	36.9	36.9	36.9
≥ 3500	27.8	38.7	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.8	39.8	39.8	40.0	40.0	40.0	40.0
≥ 3000	31.3	43.8	45.3	46.2	46.3	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.6	46.6	46.6	46.6
≥ 2500	35.4	51.3	53.4	54.8	55.0	55.0	55.3	55.3	55.3	55.4	55.4	55.4	55.5	55.5	55.5	55.5
≥ 2000	39.0	60.8	63.5	65.2	65.9	65.9	67.0	67.3	67.3	67.4	67.4	67.4	67.5	67.5	67.5	67.5
≥ 1800	40.8	64.2	67.3	69.2	70.1	70.1	71.2	71.6	71.6	71.7	71.7	71.7	71.8	71.8	71.8	71.8
≥ 1500	43.6	72.2	75.7	77.9	79.0	79.0	80.5	80.9	80.9	81.0	81.0	81.0	81.1	81.1	81.1	81.1
≥ 1200	43.9	73.8	77.9	80.3	81.9	82.0	83.5	83.8	83.8	84.1	84.2	84.2	84.3	84.3	84.3	84.3
≥ 1000	44.9	75.7	80.3	82.7	84.6	84.7	86.6	87.1	87.1	87.6	87.7	87.7	87.9	87.9	87.9	87.9
≥ 900	45.0	76.1	80.6	83.1	84.9	85.0	87.1	87.6	87.6	88.1	88.2	88.2	88.4	88.4	88.4	88.4
≥ 800	45.1	76.7	81.6	84.2	86.0	86.3	88.5	89.3	89.3	89.8	90.0	90.0	90.1	90.1	90.1	90.1
≥ 700	45.1	77.0	82.0	84.8	86.9	87.1	89.6	90.6	90.8	91.4	91.5	91.7	91.8	91.8	91.8	91.8
≥ 600	45.1	77.1	82.4	85.2	87.4	87.6	90.4	91.7	91.9	92.6	92.8	93.0	93.1	93.1	93.1	93.1
≥ 500	45.2	77.3	82.6	85.7	88.1	88.4	91.3	92.6	92.9	93.9	94.0	94.2	94.4	94.4	94.4	94.4
≥ 400	45.2	77.6	83.0	86.2	89.1	89.3	92.4	93.8	94.0	95.5	95.6	95.8	96.0	96.0	96.0	96.0
≥ 300	45.2	77.6	83.2	86.4	89.5	89.8	92.9	94.2	94.5	96.1	96.2	96.4	96.7	97.1	97.1	97.1
≥ 200	45.2	77.6	83.2	86.4	89.5	89.8	93.3	94.7	95.0	96.6	96.7	96.9	97.5	97.9	98.0	98.0
≥ 100	45.2	77.6	83.2	86.6	89.7	90.1	93.5	95.0	95.2	96.9	97.3	97.5	98.2	98.5	98.7	99.5
≥ 0	45.2	77.6	83.2	86.6	89.7	90.1	93.5	95.0	95.2	96.9	97.3	97.5	98.2	98.5	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 816

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

7214

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION	STATION NAME	YEARS	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	DEC

HOURS (LST): ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1¾	≥1½	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	17.8	24.3	24.4	24.6	24.7	24.8	24.9	25.0	25.0	25.0	25.1	25.1	25.1	25.1	25.1	25.1
≥ 20000	19.0	25.9	26.4	26.6	26.8	26.9	27.0	27.1	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.2
≥ 18000	19.4	26.0	26.5	26.7	26.9	27.0	27.1	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3
≥ 16000	19.0	26.0	26.5	26.7	26.9	27.0	27.1	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3
≥ 14000	19.1	26.1	26.6	26.9	27.0	27.1	27.2	27.3	27.3	27.3	27.4	27.4	27.4	27.4	27.4	27.4
≥ 12000	19.5	26.5	27.1	27.3	27.5	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.8	27.8	27.8	27.8
≥ 10000	20.4	27.8	28.4	28.6	28.8	28.9	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1
≥ 9000	20.5	28.0	28.5	28.7	28.9	29.0	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3
≥ 8000	21.3	29.1	29.7	29.9	30.1	30.2	30.3	30.4	30.4	30.4	30.5	30.5	30.5	30.5	30.5	30.5
≥ 7000	22.1	30.3	30.8	31.1	31.3	31.4	31.5	31.6	31.6	31.6	31.6	31.6	31.7	31.7	31.7	31.7
≥ 6000	22.8	31.1	31.7	31.9	32.2	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 5000	24.0	32.6	33.2	33.5	33.7	33.8	33.9	34.0	34.0	34.0	34.0	34.0	34.1	34.1	34.1	34.1
≥ 4500	25.1	34.4	35.1	35.5	35.7	35.9	36.0	36.0	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 4000	25.4	35.1	35.9	36.3	36.5	36.7	36.8	36.8	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 3500	26.9	37.1	38.0	38.5	38.8	39.0	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 3000	29.7	41.0	42.2	43.0	43.4	43.6	43.8	43.8	43.8	43.9	44.0	44.0	44.0	44.0	44.0	44.0
≥ 2500	34.1	48.2	49.9	51.1	51.9	52.2	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 2000	38.0	56.4	58.6	60.4	61.9	62.4	63.0	63.4	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8
≥ 1800	39.5	60.0	62.4	64.5	66.1	66.7	67.5	68.1	68.1	68.3	68.5	68.5	68.5	68.5	68.5	68.5
≥ 1500	41.9	67.2	70.5	73.0	75.2	76.1	77.4	78.6	78.6	79.0	79.3	79.3	79.3	79.3	79.3	79.3
≥ 1200	42.6	69.8	73.4	76.1	78.7	79.8	81.1	82.5	82.6	83.1	83.5	83.5	83.5	83.5	83.5	83.5
≥ 1000	43.1	71.5	75.6	78.5	81.5	82.7	84.3	85.9	86.0	87.0	87.4	87.5	87.5	87.5	87.5	87.5
≥ 900	43.1	72.0	76.2	79.2	82.3	83.5	85.2	86.8	87.0	87.9	88.5	88.5	88.6	88.6	88.6	88.6
≥ 800	43.2	72.4	76.9	80.1	83.4	84.7	86.5	88.2	88.5	89.5	90.1	90.2	90.4	90.4	90.4	90.4
≥ 700	43.3	72.7	77.4	80.8	84.3	85.6	87.5	89.3	89.6	90.7	91.4	91.6	91.7	91.7	91.7	91.7
≥ 600	43.3	72.9	77.7	81.2	84.8	86.2	88.3	90.2	90.6	91.8	92.5	92.8	93.0	93.0	93.0	93.0
≥ 500	43.3	73.0	78.0	81.7	85.6	87.0	89.4	91.4	91.8	93.2	94.0	94.3	94.6	94.7	94.7	94.7
≥ 400	43.3	73.1	78.1	81.9	86.0	87.5	90.0	92.2	92.7	94.3	95.2	95.4	96.0	96.0	96.1	96.1
≥ 300	43.3	73.1	78.2	82.1	86.2	87.8	90.5	92.8	93.3	95.1	96.3	96.5	97.1	97.3	97.4	97.5
≥ 200	43.3	73.1	78.2	82.1	86.3	87.9	90.7	93.2	93.7	95.6	97.0	97.3	98.2	98.5	98.8	98.9
≥ 100	43.3	73.1	78.2	82.1	86.3	87.9	90.7	93.2	93.7	95.7	97.2	97.5	98.4	98.7	99.2	99.7
≥ 0	43.3	73.1	78.2	82.1	86.3	87.9	90.7	93.2	93.7	95.7	97.2	97.5	98.4	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6479

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

[illegible]MAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

[illegible] (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) ALL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL (HOURS LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	26.5	41.1	42.1	42.9	43.6	43.7	43.9	44.1	44.1	44.2	44.3	44.3	44.3	44.3	44.4	44.5
≥ 20000	28.4	44.1	45.8	46.7	47.5	47.6	47.9	48.1	48.1	48.2	48.3	48.3	48.4	48.4	48.4	48.5
≥ 18000	28.5	44.1	45.9	46.8	47.5	47.7	48.0	48.1	48.2	48.3	48.4	48.4	48.4	48.4	48.5	48.6
≥ 16000	28.5	44.7	45.9	46.8	47.5	47.7	48.0	48.1	48.2	48.3	48.4	48.4	48.4	48.4	48.5	48.6
≥ 14000	29.6	44.9	46.1	47.0	47.8	47.9	48.2	48.4	48.4	48.5	48.6	48.6	48.7	48.7	48.7	48.8
≥ 12000	29.0	45.7	46.9	47.8	48.6	48.8	49.1	49.2	49.2	49.4	49.4	49.4	49.5	49.5	49.6	49.7
≥ 10000	29.9	47.3	48.6	49.6	50.4	50.6	50.9	51.1	51.1	51.2	51.3	51.3	51.4	51.4	51.5	51.6
≥ 9000	30.1	47.6	48.9	49.9	50.7	50.9	51.2	51.4	51.4	51.6	51.6	51.6	51.7	51.7	51.8	51.9
≥ 8000	31.3	49.4	50.8	51.9	52.8	53.0	53.3	53.5	53.5	53.7	53.7	53.8	53.8	53.8	53.9	54.0
≥ 7000	32.1	50.7	52.1	53.2	54.1	54.3	54.7	54.9	54.9	55.0	55.1	55.1	55.2	55.2	55.3	55.4
≥ 6000	32.7	51.7	53.1	54.3	55.2	55.5	55.8	56.0	56.0	56.2	56.3	56.3	56.3	56.3	56.4	56.5
≥ 5000	33.1	53.5	55.1	56.3	57.3	57.6	58.0	58.2	58.2	58.4	58.4	58.4	58.5	58.5	58.6	58.7
≥ 4500	35.0	55.6	57.3	58.7	59.7	60.0	60.4	60.6	60.7	60.8	60.9	60.9	61.0	61.0	61.1	61.2
≥ 4000	35.6	56.6	58.4	59.8	60.9	61.2	61.6	61.8	61.9	62.0	62.1	62.1	62.2	62.2	62.3	62.4
≥ 3500	37.0	59.0	60.9	62.4	63.6	63.9	64.3	64.6	64.6	64.8	64.9	64.9	65.0	65.0	65.1	65.2
≥ 3000	39.0	62.2	64.3	65.9	67.2	67.6	68.0	68.3	68.3	68.5	68.6	68.6	68.7	68.7	68.8	68.9
≥ 2500	41.5	66.7	69.0	70.9	72.4	72.7	73.3	73.6	73.6	73.9	74.0	74.0	74.1	74.1	74.2	74.3
≥ 2000	43.5	70.9	73.5	75.6	77.3	77.8	78.5	78.9	78.9	79.2	79.3	79.3	79.4	79.4	79.5	79.6
≥ 1800	44.2	72.3	75.0	77.2	79.0	79.5	80.3	80.7	80.7	81.0	81.1	81.1	81.2	81.3	81.3	81.5
≥ 1500	45.5	75.6	78.6	81.0	83.1	83.8	84.7	85.3	85.3	85.7	85.9	85.9	86.0	86.0	86.1	86.2
≥ 1200	46.0	77.2	80.3	82.9	85.1	85.8	86.8	87.5	87.6	87.9	88.2	88.2	88.3	88.3	88.4	88.5
≥ 1000	46.4	78.3	81.6	84.3	86.8	87.6	88.7	89.5	89.6	90.1	90.4	90.4	90.5	90.6	90.6	90.8
≥ 900	46.5	78.6	82.0	84.8	87.3	88.1	89.3	90.0	90.2	90.7	91.0	91.1	91.2	91.2	91.3	91.4
≥ 800	46.6	79.0	82.5	85.4	88.1	88.9	90.2	91.0	91.1	91.7	92.1	92.1	92.3	92.3	92.4	92.5
≥ 700	46.7	79.4	83.0	86.0	88.8	89.7	91.0	91.9	92.1	92.7	93.1	93.2	93.3	93.3	93.4	93.5
≥ 600	46.7	79.6	83.3	86.4	89.3	90.2	91.6	92.6	92.8	93.5	93.9	94.0	94.2	94.2	94.3	94.4
≥ 500	46.7	79.8	83.6	86.8	89.9	91.8	92.4	93.5	93.7	94.5	95.1	95.2	95.4	95.4	95.5	95.7
≥ 400	46.7	79.9	83.8	87.2	90.4	91.5	93.2	94.5	94.8	95.7	96.3	96.4	96.7	96.8	96.9	97.0
≥ 300	46.7	79.9	83.9	87.3	90.7	91.8	93.6	95.1	95.3	96.4	97.1	97.3	97.6	97.7	97.8	98.0
≥ 200	46.7	79.9	83.9	87.4	90.7	91.9	93.9	95.4	95.7	96.9	97.7	97.9	98.3	98.5	98.7	98.9
≥ 100	46.7	79.9	83.9	87.4	90.8	91.9	93.9	95.4	95.8	97.0	97.9	98.1	98.6	98.8	99.2	99.6
≥ 0	46.7	79.9	83.9	87.4	90.8	91.9	93.9	95.4	95.8	97.0	97.9	98.1	98.6	98.8	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 76747

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

PART D

SKY COVER

Stations that report both synoptic and airways observations have had their sky cover reports converted into airways. The synoptic hours have significantly lower observation counts than the airways, hence, a small percentage of observations were reported in the 1/10, 4/10, 5/10, 6/10, and 8/10 categories. In order to use this data more beneficially we have combined:

- 1/10 and 4/10 into the 3/10 (scattered) category
- 5/10, 6/10 and 8/10 into the 9/10 (broken) category
- 0/10 is the clear category
- 10/10 is the overcast category

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AI WEATHER SERVICE/MAC

2

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JAN

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	14.7			11.5						12.6	61.2	7.6	817
	03-05	13.6			10.0						10.6	65.8	7.8	809
	06-08	12.8			11.5	.2		.2		.1	11.0	64.0	7.8	825
	09-11	10.7			15.1						14.6	59.5	7.7	820
	12-14	5.3	.2		18.5	.2	.6	.4		.1	24.0	50.7	7.9	817
	15-17	5.5			19.9						21.1	53.4	7.8	814
	18-20	12.2	.1		16.0		.1	.1		.2	13.8	57.4	7.5	820
	21-23	13.5			13.5						11.9	61.0	7.6	813
TOTALS		11.0	.0		14.5	.1	.1	.1		.1	15.0	59.1	7.7	6535

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
7.659.	PHELPS-COLLINS/ALPENA MI	73-81	FEB

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	22.7			11.3						13.9	52.1	6.8	741
	03-05	22.7			9.5						11.6	56.2	6.9	744
	06-08	13.3	.1		13.2	.1		.1		.1	13.3	59.7	7.6	751
	09-11	11.6			14.6						15.2	58.6	7.7	752
	12-14	5.6	.3		16.8	.1	.1	.1		.3	21.8	54.8	8.0	748
	15-17	8.1			17.3						21.2	53.5	7.8	742
	18-20	13.5	.1		19.3	.1		.4		.4	15.9	50.2	7.1	741
	21-23	20.7			16.6						12.5	50.2	6.6	745
TOTALS		14.8	.1		14.8	.0	.0	.1		.1	15.7	54.4	7.3	5968

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAR

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		
MAR	00-02	23.8			12.5						7.5	56.1	6.7	814
	03-05	22.1			10.3						10.2	57.4	7.0	814
	06-08	15.2	.1		15.1	.2	.4				12.0	57.0	7.3	823
	09-11	13.9			15.8						14.2	56.1	7.4	818
	12-14	13.2			16.5		.1			.4	17.6	52.3	7.3	820
	15-17	13.2			16.4						18.7	51.7	7.3	818
	18-20	15.7	.1		18.2	.1				.4	14.0	51.5	7.0	817
	21-23	25.1			11.7						11.9	51.3	6.6	824
TOTALS		17.8	.0		14.6	.0	.1			.1	13.3	54.2	7.1	6548

USAFETAC FORM JUL 64 0-9-5 (OL1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

76390	PHELPS-COLLINS/ALPENA MI	73-81	APR
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		
APR	00-02	33.0			12.7						9.8	44.5	5.7	786
	03-05	31.7			13.0						8.7	46.7	5.8	786
	06-08	22.2	.1		13.3		.1				16.5	47.7	6.7	796
	09-11	23.0			13.1						15.9	48.0	6.6	794
	12-14	17.3	.3		15.8	.1	.3	.3		.4	17.1	48.5	6.9	790
	15-17	16.0			16.4						18.2	49.4	7.1	795
	18-20	16.6	.5		17.5	.3				.3	15.9	49.2	6.9	794
	21-23	26.7			17.5						10.8	45.0	6.0	795
TOTALS		23.3	.1		14.9	.1	.1	.0		.1	14.1	47.4	6.5	6336

USAFETAC FORM JUL 64 0-9-5 (OL1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — PERIOD
MAY — 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		
MAY	00-02	34.4			19.5						11.2	34.8	5.1	810
	03-05	30.7			19.9						12.8	36.6	5.4	804
	06-08	21.7	.5		18.1					.2	20.7	38.8	6.3	817
	09-11	19.3			21.8						19.0	39.9	6.4	820
	12-14	16.0	.9		23.3		.2	.4		.4	20.4	38.5	6.5	820
	15-17	14.8			24.1						24.2	36.8	6.6	817
	18-20	15.8	.5		22.6		.1	.4		.5	22.5	37.7	6.5	824
	21-23	27.3			23.2						13.4	36.1	5.5	818
TOTALS		22.5	.2		21.6		.0	.1		.1	18.0	37.4	6.0	6530

USAFETAC FORM JUL 84 0-9-5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	36.0			22.3						11.2	30.5	4.7	786
	03-05	23.4			24.6						15.6	36.4	5.8	788
	06-08	19.5	.3		23.0	.1	.4			.1	18.5	38.2	6.2	791
	09-11	15.4			25.2						23.0	36.4	6.5	794
	12-14	10.0			28.1	.1	.5			1.0	26.2	34.0	6.7	793
	15-17	11.8			30.6						25.8	31.8	6.4	790
	18-20	17.1			26.3		.1	.1		.5	25.1	30.8	6.2	796
	21-23	24.7			28.3						17.0	29.9	5.4	792
TOTALS		19.7	.0		26.1	.0	.1	.0		.2	20.3	33.5	6.0	6350

USAFETAC FORM JUL 64 0.9-5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02	43.3			21.7						11.3	23.7	4.0	797
	03-05	34.4			24.7						13.3	27.6	4.7	809
	06-08	23.1			23.6		.5	.1		.8	18.8	33.1	5.8	800
	09-11	19.8			27.7						20.5	32.0	5.9	809
	12-14	11.1			36.2	.1	.4	.1		1.0	20.5	30.6	6.1	820
	15-17	15.0			32.1						25.5	27.4	6.0	822
	18-20	22.3	.4		25.2	.2		.1		1.0	24.8	26.0	5.7	812
	21-23	30.8			29.9						15.2	24.1	4.7	817
TOTALS		25.0	.1		27.6	.0	.1	.0		.4	18.7	28.1	5.4	6486

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	AUG

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		
AUG	00-02	40.4			18.5						12.0	29.1	4.5	794
	03-05	35.1			19.7						13.0	32.2	5.0	777
	06-08	22.8	.1		24.6	.3	.1			.4	16.2	33.5	5.8	793
	09-11	18.9			24.2						21.3	35.6	6.2	809
	12-14	11.1	.1		30.0	.1	.2	.1		.7	24.0	33.5	6.5	809
	15-17	12.1			30.7						24.0	33.1	6.4	815
	18-20	20.5	.1		26.8		.1	.1		.5	22.7	29.2	5.8	811
	21-23	32.3			24.8						14.9	27.9	4.9	798
TOTALS		24.2	.0		24.9	.1	.1	.0		.2	18.8	31.8	5.6	6406

USAFETAC FORM JUL 64 0-9-5 (OL1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

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		
SEP	00-02	35.0			16.5						10.0	38.5	5.2	771
	03-05	33.2			16.6						9.9	40.3	5.4	784
	06-08	18.6			16.8			.3		.4	19.1	45.0	6.8	787
	09-11	12.2			22.5						20.5	44.8	7.0	777
	12-14	9.6	.3		25.0	.3	.1			1.0	22.7	41.1	7.0	793
	15-17	11.2			23.8						23.7	41.3	7.0	786
	18-20	17.8	.5		25.6	.1		.4		.4	21.2	35.9	6.3	791
	21-23	31.8			20.5						9.4	38.3	5.3	789
TOTALS		21.2	.1		20.7	.1	.0	.1		.2	17.1	40.7	6.3	6278

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT

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		
OCT	00-02	25.5			15.5						10.8	48.3	6.3	789
	03-05	25.4			13.6						13.0	48.0	6.4	787
	06-08	14.6	.2		18.2			.2			18.0	48.7	7.1	813
	09-11	12.1			16.5						19.3	52.0	7.4	817
	12-14	9.7	.1		17.3	.4	.1			.5	22.1	49.7	7.5	813
	15-17	12.2			16.5						19.8	51.5	7.4	819
	18-20	16.0			17.3		.2	.2		.6	14.8	50.8	7.0	815
	21-23	21.9			15.6						11.2	51.4	6.6	814
TOTALS		17.2	.0		16.3	.1	.0	.1		.1	16.1	50.1	7.0	6467

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
NOV	00-02	16.9			7.4						12.0	63.7	7.7	768
	03-05	17.5			10.8						9.3	62.4	7.4	781
	06-08	12.9			12.9					.4	9.6	64.2	7.7	790
	09-11	8.5			13.6						17.2	60.7	8.0	786
	12-14	11.2	.1		12.2			.1		.4	17.8	58.2	7.8	777
	15-17	11.2			12.6						14.3	61.9	7.9	788
	18-20	13.6			10.7	.1	.1	.3		.3	13.1	61.8	7.7	785
	21-23	16.5			8.6						10.3	64.7	7.6	790
TOTALS		13.5	.0		11.1	.0	.0	.1		.1	13.0	62.2	7.7	6265

USAFETAC FORM JUL 64 0-9-5 (OL1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	DEC

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		
DEC	00-02	12.2			11.2						12.2	64.4	7.9	803
	03-05	12.3			11.3						9.0	67.4	7.9	797
	06-08	6.7			13.3	.1	.2	.1		.1	9.4	70.1	8.3	822
	09-11	5.9			10.5						12.9	70.7	8.5	809
	12-14	3.3	.1		14.2					.5	16.6	65.3	8.5	815
	15-17	4.8			13.7						17.4	64.0	8.4	809
	18-20	9.1			13.1	.2	.1	.1		.1	13.5	63.7	8.0	816
	21-23	10.4			11.5						9.8	68.3	8.1	816
TOTALS		8.1	.0		12.4	.0	.0	.0		.1	12.6	66.7	8.2	6487

USAFETAC FORM JUL 64 0.9.5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

STATION	STATION NAME	PERIOD	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	ALL

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	11.0			14.5	.1	.1	.1		.1	15.0	59.1	7.7	6535
FEB		14.8	.1		14.8			.1		.1	15.7	54.4	7.3	5964
MAR		17.8			14.6		.1			.1	13.3	54.2	7.1	6546
APR		23.3	.1		14.9	.1	.1			.1	14.1	47.4	6.5	6336
MAY		22.5	.2		21.6			.1		.1	18.0	37.4	6.0	6530
JUN		19.7			26.1		.1			.2	20.3	33.5	6.0	6330
JUL		25.0	.1		27.6		.1			.4	18.7	28.1	5.4	6486
AUG		24.2			24.9	.1	.1			.2	18.8	31.8	5.6	6406
SEP		21.2	.1		20.7	.1		.1		.2	17.1	40.7	6.3	6278
OCT		17.2			16.3	.1		.1		.1	16.1	50.1	7.0	6467
NOV		13.5			11.1			.1		.1	13.0	62.2	7.7	6265
DEC		8.1			12.4					.1	12.6	66.7	8.2	6487
TOTALS		18.2	.1		18.3	.0	.1	.1		.2	16.1	47.1	6.7	76632

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

E

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

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

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

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

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

NOTE: Wet-bulb temperature 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
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DAILY TEMPERATURES

[illegible] PHELPS-COLLINS/ALPENA MI 73-81
STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
95							2.2						.2
90					1.1	4.8	8.6	4.7	.7				1.7
85				1.1	7.2	15.6	26.9	14.7	4.8				5.9
80				2.6	14.3	32.2	49.8	39.8	11.9	1.1			12.7
75				5.6	22.9	49.6	77.1	63.8	21.5	3.6	.4		20.5
70			.4	7.8	35.5	68.9	91.8	84.6	34.4	9.3	1.5		28.0
65			2.2	15.6	49.1	84.1	97.8	97.1	58.5	19.4	3.7		35.8
60			5.0	25.7	68.8	94.4	99.3	98.9	80.4	32.6	9.3	.4	43.0
55		1.2	8.6	38.5	80.3	98.1	100.0	100.0	94.1	47.0	15.9		48.9
50	1.1	2.4	14.7	50.7	92.1	100.0			98.5	68.8	29.6	1.4	55.2
45	3.6	5.5	26.9	66.7	96.8				100.0	86.7	37.8	3.2	60.8
40	6.8	11.8	44.1	80.0	98.9					95.0	58.1	9.7	67.3
35	15.4	22.4	60.9	94.1	100.0					99.6	77.4	32.3	75.4
30	31.9	42.5	83.2	98.9						100.0	93.7	58.8	84.2
25	53.0	62.6	93.2	100.0							97.0	75.6	90.2
20	73.1	79.1	99.3								98.9	90.0	95.1
15	86.7	87.0									100.0	96.1	97.5
10	97.1	94.5	99.6									99.6	99.3
5	98.9	97.6	100.0									100.0	99.7
0	100.0	100.0											100.0
MEAN	25.4	27.3	38.9	51.2	65.3	74.1	79.7	77.1	67.1	55.1	43.2	30.3	52.9
S.D.	9.432	10.640	10.573	12.493	11.759	9.278	7.427	7.181	9.104	9.957	11.067	8.297	21.396
TOTAL OBS.	279	254	279	270	279	270	279	279	270	279	270	279	3287

USAFETAC FORM JUL 64 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DAILY TEMPERATURES

73-81
YEARS

: FREQUENCY OF OCCURRENCE
Y OBSERVATIONS)

MINIMUM

UN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
.4	1.1	.7					.2
1.5	5.0	7.5	2.6				1.4
.0.7	24.4	23.7	5.2	.4			5.6
23.3	50.2	47.3	15.2	2.9			12.2
19.3	76.3	72.0	35.2	5.7	1.5		21.7
38.5	94.6	87.5	53.7	13.6	2.6		29.9
38.1	99.3	97.5	74.8	29.0	8.5		38.8
97.4	100.0	100.0	87.8	54.8	19.6	1.1	47.9
98.9			92.2	64.9	26.3	5.4	52.1
00.0			97.0	77.8	39.3	12.9	58.8
			100.0	96.1	66.3	27.6	70.4
				99.3	82.6	44.4	77.0
				100.0	92.2	58.4	82.5
					96.3	72.0	87.4
					98.5	83.5	91.9
					99.6	90.7	94.6
					100.0	95.0	97.0
						98.6	98.3
						99.3	99.2
						100.0	99.8
							99.9
							100.0
							100.0
48.9	54.5	53.6	45.5	36.1	27.3	16.2	32.6
7.825	6.478	7.453	8.867	7.900	9.172	11.580	18.582
270	279	279	270	279	270	279	3287

2

...BAL CLIMATOLOGY BRANCH
...AFETAC
A... WEATHER SERVICE/MAC
...390 PHELPS-COLLINS/ALPENA MI
STATION STATION NAME

CUMULATIVE PERCE...
(FROM

TEMP (°F)	JAN	FEB	MAR	APR	MAY
80					
75					.4
70				.7	5.7
65				2.2	12.5
60			.4	3.7	24.4
55			1.1	8.1	39.4
50			2.2	16.7	62.0
45	.4	.8	7.5	34.1	82.4
40	1.4	2.4	15.1	55.6	94.3
35	4.3	8.3	34.1	77.4	99.6
30	13.3	17.7	55.2	90.4	100.0
25	25.8	32.3	70.3	97.8	
20	42.3	44.9	84.9	100.0	
15	60.2	60.6	93.9		
10	75.3	77.2	98.9		
5	87.8	88.2	99.6		
0	95.0	92.9			
-5	99.3	97.6	100.0		
-10	100.0	99.2			
-15		99.6			
-20		100.0			
MEAN	17.3	18.1	30.1	41.2	52.[illegible]
S.D.	10.455	11.764	9.881	9.526	9.05[illegible]
TOTAL OBS.	279	254	279	270	27[illegible]

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

726390 STATION — PHELPS-COLLINS/ALPENA MI STATION NAME — 73-81 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP	OCT	NOV.	DEC	ALL MONTHS
73	52	41	62	76	74	93	92	93	90	80	56	54	93
74	47	48	63	85	82	87	94	90	85	72	70	43	94
75	48	50	49	67	92	93	97	93	74	80	71	61	97
76	35	58	67	86	79	92	92	93	93	82	53	42	93
77	33	42	73	83	90	90	98	88	80	69	62	43	98
78	33	32	50	66	93	91	97	93	84	73	76	42	97
79	32	47	62	77	86	89	93	86	87	77	58	49	93
80	47	39	58	75	89	90	92	87	83	71	61	43	92
81	44	57	67	81	84	93	98	88	80	67	65	44	98
MEAN	41.2	46.0	61.2	77.3	85.4	90.9	94.8	90.1	84.0	74.6	63.6	46.8	95.0
S.D.	7.870	8.456	7.870	7.263	6.327	2.888	2.682	2.934	5.701	5.364	7.601	6.667	2.449
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A) # (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

72639 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP	OCT	NOV.	DEC	ALL MONTHS
73	-10	-17	11	13	25	43	44	43	29	27	19	-12	-17
74	-13	-19	-2	14	23	36	41	40	29	21	10	8	-19
75	-15	-19	-3	13	28	40	42	44	31	22	7	-4	-19
76	-18	-19	-2	19	27	40	45	39	31	19	-1	-10	-19
77	-19	-8	9	13	25	33	41	35	37	22	1	-18	-19
78	-15	-24	-12	17	27	34	35	41	35	23	12	-5	-24
79	-15	-37	3	20	28	37	42	39	31	25	10	-1	-37
80	-3	-12	-13	19	31	30	44	49	28	24	12	-17	-17
81	-21	-17	8	19	28	36	42	37	27	19	9	6	-21
MEAN	-14.7	-19.1	.3	16.3	26.9	36.6	41.8	40.8	30.9	22.4	8.8	-5.9	-21.3
S.D.	5.500	8.115	8.689	3.041	2.315	4.003	2.906	4.147	3.257	2.651	5.995	9.266	6.245
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	270	279	3287

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A) # (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PAGE 1 — HOURS (L. S. T.): 0000-0200

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
48/ 47		.2	.1															3	3		
46/ 45		.1	.2															3	3	2	1
44/ 43			.1															1	1	2	2
42/ 41		.4	.6															8	8	5	4
40/ 39	.5	.1	.2															7	7	6	5
38/ 37		.2																2	2	7	5
36/ 35	.1	1.2																11	12	8	2
34/ 33	1.0	1.9	.4															26	26	17	24
32/ 31	.4	4.6	.2															42	42	27	12
30/ 29	1.5	2.7	.9															41	41	41	20
28/ 27	.2	4.2	.6															41	41	34	28
26/ 25	1.2	4.6	1.5															59	59	52	36
24/ 23	1.0	1.7	.1															23	23	54	25
22/ 21	2.2	2.6	.1															40	40	43	36
20/ 19	1.7	5.2	.2															58	58	33	57
18/ 17	1.2	4.0	.4															45	45	52	41
16/ 15	1.1	4.8	.2															50	50	49	43
14/ 13	2.1	4.7	.1															56	57	51	38
12/ 11	1.9	5.0																55	56	52	52
10/ 9	1.4	4.1	.1															45	45	53	39
8/ 7	1.5	2.4	.2															33	33	45	32
6/ 5	.2	2.5																22	22	29	43
4/ 3	1.6	2.5																33	33	35	29
2/ 1	1.6	1.7																27	27	31	56
0/ -1	1.6	.6																18	20	16	35
-2/ -3	1.9	.1																16	16	21	29
-4/ -5	.7																	6	6	6	24
-6/ -7	1.2																	10	10	10	13
-8/ -9	.9																	7	7	7	23
-10/-11	.6																	5	5	5	13
-12/-13	.6																	5	5	5	8
-14/-15	1.2																	10	10	10	10
-16/-17																					15
-18/-19																					10

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PAGE 2 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-21																					2
TOTAL	31.3	62.1	6.6																813		808
																		808		808	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5068958	63242	78.3	12.144	808							
Dry Bulb	341782	13474	16.6	12.079	813	9.0	85.9					93
Wet Bulb	306182	12568	15.6	11.712	808	9.2	87.6					93
Dew Point	236740	8740	10.8	13.274	808	20.9	88.5					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 1 0300-0500 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
47/ 45		.2	.1															3	3		
44/ 43		.6	.1															6	6	5	3
42/ 41	.2	.4	.6															10	10	7	5
41/ 39	.2	.2	.2															6	6	5	7
39/ 37	.1	.1	.2															4	4	9	2
37/ 35	.1	.9	.2															10	10	3	5
34/ 33	.9	2.0	.2															25	25	21	10
32/ 31	1.1	2.9	.2															34	34	24	22
30/ 29	.9	4.0	.2															41	41	38	21
28/ 27	.9	2.2	.4															28	28	36	30
26/ 25	1.0	4.6	.7															51	51	35	29
24/ 23	.5	3.0	.4															31	31	46	19
22/ 21	2.6	3.5	.6															54	54	59	40
20/ 19	2.7	4.9	.2															63	63	48	56
18/ 17	1.4	3.9																42	42	47	37
16/ 15	1.2	3.1																40	40	48	55
14/ 13	1.9	4.6	.4															55	55	41	35
12/ 11	1.5	3.2	.1															39	39	50	43
10/ 9	2.9	3.0																47	47	49	40
8/ 7	1.9	3.2	.1															42	42	44	46
6/ 5	1.2	2.4																29	29	38	29
4/ 3	1.6	1.2																23	23	23	42
2/ 1	1.2	2.4																29	29	26	49
0/ -1	1.1	.2																11	12	19	25
-2/ -3	1.4	.2																13	13	14	19
-4/ -5	1.4																	11	11	12	15
-6/ -7	2.1																	17	17	17	19
-8/ -9	2.2																	18	18	18	17
-10/-11	.6																	5	5	5	31
-12/-13	.4																	3	3	3	8
-14/-15	.4																	3	3	5	13
-16/-17	.7																	6	6	6	9
-18/-19	.4																	3	3	3	17
-20/-21																					3

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 2 0300-0500 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]																					1
TOTAL	36.9	57.7	5.4																803		802
																		802		802	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5181083	63773	79.5	11.720	802							
Dry Bulb	332754	12814	16.0	12.648	803	10.5	85.6					93
Wet Bulb	303029	12079	15.1	12.296	802	11.6	87.2					93
Dew Point	241778	8504	10.6	13.758	802	20.5	89.3					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

STATION	STATION NAME	YEARS	MONTH
726340	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PAGE 1 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
49 / 45		.5																4	4		
44 / 43	.1	.5	.4															8	8	6	4
42 / 41	.2	.1	.4															6	6	5	7
40 / 39	.1	.2	.2															5	5	6	1
38 / 37	.4		.2															5	5	8	3
36 / 35		1.1	.5															13	13	4	7
34 / 33	.1	1.8	.5															20	20	13	6
32 / 31	2.1	1.8	1.0															40	40	40	30
30 / 29	1.1	2.1	.2															28	28	27	15
28 / 27	1.3	2.7	.2															32	32	30	30
26 / 25	.9	4.4	.4															46	46	33	20
24 / 23	1.5	2.7	.5															38	38	38	25
22 / 21	2.5	3.3	.6															52	53	38	38
20 / 19	3.1	4.8																64	66	66	59
18 / 17	1.0	2.8																31	31	47	32
16 / 15	2.3	4.0																52	52	43	50
14 / 13	2.6	4.3																56	57	49	60
12 / 11	2.0	2.8	.1															40	40	49	42
10 / 9	2.3	3.3	.2															48	48	40	45
8 / 7	2.1	3.1																42	42	58	45
6 / 5	.9	.7																13	13	20	32
4 / 3	1.2	1.5																22	22	22	30
2 / 1	2.1	3.6																46	46	39	37
0 / -1	2.2	.2																20	22	28	24
-2 / -3	2.2	.6																23	23	24	26
-4 / -5	1.6	.4																16	16	16	24
-6 / -7	1.1																	9	9	10	17
-8 / -9	1.3																	11	11	11	32
-10 / -11	.7																	6	6	6	21
-12 / -13	.4																	3	3	3	10
-14 / -15	1.1																	9	9	9	12
-16 / -17	.9																	7	7	7	8
-18 / -19																					18
-20 / -21																					4

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Ref. 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) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 2 0600-0800 (HOURS L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	TOTAL Wet Bulb	Dew Point
-21-25																					1
TOTAL	41	053	5	5															821		815
																		815		815	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5360126	65412	80.3	11.633	815							
Dry Bulb	327033	12679	15.4	12.650	821	12.0	86.1					93
Wet Bulb	291166	11918	14.6	12.317	815	13.0	88.2					93
Dew Point	240043	8413	10.5	13.719	815	22.5	89.8					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMA

STATION	STATION NAME	YEARS	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	JAN

PAGE 1 0900-11 HOURS (L.S.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.	TOTAL W.B.	Dry Bulb	Wet Bulb	Dew
[illegible] / 47		.1	.1															2	2			
4[illegible] / 45		.5																4	4	1		
-4 / 43			.2	.1														3	4	5		
[illegible] / 41	.4		.1															4	4	3		
4 / 39			.7	.1														7	7	3		
3 / 37	.1		.4	.1														5	5	3		
[illegible] / 35		1.8	.2															17	17	9		
3[illegible] / 33	.6	1.6	.2	.1														21	21	26		
[illegible] / 31	1.1	3.7	1.1															48	48	29		
[illegible] / 29	1.1	2.0	.9	.1														33	34	37		
[illegible] / 27	1.0	3.0	.5															41	41	40		
[illegible] / 25	1.2	3.7	.6															45	45	41		
2[illegible] / 23	.6	2.9	.1															30	30	49		
[illegible]27 21	3.6	3.3	.4															59	59	50		
[illegible] / 19	3.2	5.5	.2															73	73	53		
1 / 17	2.0	5.0	.4															60	60	68		
1 / 15	2.7	4.3	.1															58	58	54		
1 / 13	2.2	4.3	...															53	53	51		
1 / 11	1.7	3.2	.4															43	43	44		
1 / 9	2.0	3.9																48	48	46		
/ 7	1.1	2.6	.1															31	31	43		
/ 5	.9	2.2																25	25	29		
/ 3	.5	1.2																14	14	18		
/ 1	1.2	2.3																29	29	23		
/ -1	2.1	.4																20	20	29		
-[illegible] / -3	1.5	.4																15	15	17		
-[illegible] / -5	1.0	.1																9	9	10		
-[illegible] / -7	.1																	6	6	6		
-[illegible] / -9	.5																	5	5	5		
-1 / -11	.2																	2	2	2		
-1 / -13	.1																	1	1	1		
-1 / -15	.1																	1	1	1		
-1 / -17	.1																	1	1	1		
-1 / -19	.1																	1	1	1		

WET BULB TEMPERATURE DEPRESSION (F)

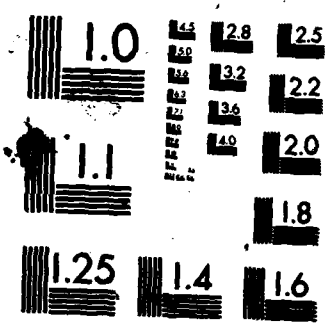
Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	To
Dry Bulb												
Wet Bulb												
Dew Point												

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

AD-A116 099 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
PHELPS-COLLINS, ALPENA, MICHIGAN. REVISED UNIFORM SUMMARY OF SU--ETC(U)
MAY 82

UNCLASSIFIED USAFETAC/DS-82/031 SBI-AD-E850 176 NL

4 5



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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 2 0900-1100 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-20 / -21																					1
0 / -1	33.8	58.7	6.9	.6															816		814
																		814		814	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5214959	64365	79.1	12.422	814							
Dry Bulb	356791	14413	17.7	11.199	816	7.0	85.7					93
Wet Bulb	318949	13493	16.6	10.826	814	8.3	87.3					93
Dew Point	294172	9790	12.0	12.470	814	17.9	90.6					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

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH

PAGE 1 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
52/ 51				.2														2	2		
50/ 49			.1		.1	.1												3	3		
48/ 47					.2													2	2	1	
46/ 45		.2	.2	.2														6	6	4	2
44/ 43			.1	.4														4	4		
42/ 41			.2	.2	.2													6	6	5	3
40/ 39	.2		.5	.1	.1													8	8	6	2
38/ 37	.2	.4	1.0	.4														16	16	8	5
36/ 35	.2	1.6	2.2		.1													34	34	12	4
34/ 33		2.0	.4	.4														22	22	30	5
32/ 31	.1	3.1	2.8	1.2														69	69	46	26
30/ 29	.1	1.0	2.0	.5														39	39	45	32
28/ 27	.9	3.7	1.7	.1														52	53	46	32
26/ 25	1.5	4.8	1.5															63	64	68	37
24/ 23	.5	3.6	2.2															51	51	66	45
22/ 21	.6	5.1	1.7															60	60	52	31
20/ 19	.1	7.2	2.1															81	81	54	66
18/ 17	.1	4.7	2.3															63	64	79	52
16/ 15	1.2	3.1	2.2															53	53	70	48
14/ 13	.4	5.1	.9															51	51	45	66
12/ 11	.1	3.5	1.2															39	39	46	51
10/ 9	.1	2.8	.7															30	30	42	49
8/ 7	.2	1.9																17	17	34	36
6/ 5	.1	1.3																13	13	14	26
4/ 3	.4	.6																.8	.8	17	35
2/ 1		1.4																11	11	8	45
0/ -1	.5																	4	4	9	21
-2/ -3	.4																	3	3	3	21
-4/ -5																					27
-6/ -7																					13
-8/ -9																					6
-10/-11																					17
-12/-13																					5
-14/-15																					2

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 2 1200-1800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	10.6	58.3	26.3	3.8	.9	.1												810	813	810	810

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Num No. of Hours with Temperature + 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	Total
Rel. Hum.	4160211	56929	70.3	14.023	810							
Dry Bulb	472636	18004	22.1	9.542	813	.8	81.2					93
Wet Bulb	395208	16306	20.1	9.097	810	1.4	85.4					93
Dew Point	264327	10985	13.6	11.412	810	12.9	90.6					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

726390	PHELPS-COLLINS/ALPENA MI	73-81	JAN
STATION	STATION NAME	YEARS	MONTH

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
52/ 51			.1			.1												2	2		
50/ 49			.1		.1	.1												3	3		
48/ 47			.1		.2													3	3	1	
46/ 45			.4	.1	.1													5	5	2	
44/ 43				.5														4	4	1	
42/ 41					.5													4	4	6	3
40/ 39			.6	.6	.1													11	11	2	2
38/ 37	.2	.5	.6	.2														13	13	8	3
36/ 35	.2	1.1	1.7															25	25	15	3
34/ 33	.1	2.1	1.6	.9														38	38	22	5
32/ 31	.5	4.7	3.0	1.2	.1													77	78	49	17
30/ 29	.7	2.3	1.8	.5														44	44	52	32
28/ 27	1.0	2.3	1.8	.1														43	43	54	37
26/ 25	1.1	4.4	2.8															68	68	62	51
24/ 23	.5	2.6	2.0															41	41	56	31
22/ 21	.5	3.7	1.8	.1														50	50	56	36
20/ 19	1.1	6.4	2.8	.1														85	85	55	45
18/ 17	.4	3.6	3.0															56	56	68	58
16/ 15	.9	4.7	3.0															69	69	65	40
14/ 13	.4	4.6	1.8															55	56	68	61
12/ 11	.5	2.2	1.6															35	35	51	48
10/ 9	.2	2.6	1.2															33	33	39	61
8/ 7	.5	1.6																17	17	35	37
6/ 5		.6																5	5	16	23
4/ 3	.2	.7																8	8	9	48
2/ 1	.2	1.4																13	13	11	36
0/ -1	.4	.1																4	4	7	28
-2/ -3	.1																	1	1	2	24
-4/ -5																					23
-6/ -7																					24
-8/ -9																					14
-10/-11																					14
-12/-13																					8

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639U — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH

PAGE 2 — 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	9.9	52.2	32.0	4.4	1.2	.2												812	814	812	812

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥72 F	≥80 F	≥93 F	Total
Rel. Hum.	3859869	54695	67.4	14.719	812							
Dry Bulb	478099	18163	22.3	9.499	814	.6	80.7					93
Wet Bulb	391385	16278	20.0	8.965	812	1.0	86.8					93
Dew Point	237927	10295	12.7	11.808	812	15.8	91.2					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
48/ 47		.2	.1		.1													4	4		
46/ 45				.1														1	1	3	1
44/ 43		.4		.3														7	7		1
42/ 41		.2																2	2	4	2
40/ 39		.2	.1															3	3	4	2
38/ 37	.4	.2	.1	.1														7	7	8	5
36/ 35		.6	.9															12	12	3	1
34/ 33	.4	1.8	1.3															29	29	13	9
32/ 31	.5	4.0	1.8															50	50	31	10
30/ 29	1.2	3.9	1.1															51	52	58	21
28/ 27	.9	4.0	1.5	.2														54	54	51	34
26/ 25	1.3	3.9	1.2															53	53	48	54
24/ 23	.6	2.3	.6															29	29	55	34
22/ 21	1.0	4.1	.2															48	48	40	34
20/ 19	2.0	7.0	.4															76	77	60	39
18/ 17	.6	5.9	.5															57	57	65	51
16/ 15	.1	5.3	1.2															54	54	54	57
14/ 13	1.2	4.9	.4															53	53	47	48
12/ 11	1.0	3.7	.7															44	44	55	47
10/ 9	1.0	4.5	.6															50	50	49	55
8/ 7	1.1	3.9	...															41	41	50	48
6/ 5	.7	2.1																23	23	37	27
4/ 3	.5	1.7																18	18	24	42
2/ 1	.2	2.2																20	20	20	38
0/ -1	1.6	.1																14	14	20	30
-2/ -3	.4																	3	3	4	32
-4/ -5	.9																	7	7	7	21
-6/ -7	.4																	3	3	3	19
-8/ -9	.1																	1	1	1	24
-10/-11	.2																	2	2	2	16
-12/-13																					11
-14/-15																					3
TOTAL	18.3	66.0	12.6	1.0	.1														816		816
																		816		816	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥72 F	≥80 F	≥95 F	Total
Rel. Hum.	4614034	60442	74.1	12.967	816							
Dry Bulb	380830	15504	19.0	10.318	818	3.4	85.6					93
Wet Bulb	329470	14244	17.5	9.959	816	4.2	89.0					93
Dew Point	227203	9607	11.8	11.832	816	17.6	90.6					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 1 2100-2300 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
50/ 49		.1																1	1		
48/ 47		.2																2	2	2	
46/ 45																				1	3
44/ 43		.4	.2	.1														6	6		
42/ 41		.1	.4															4	5	3	
40/ 39	.1	.4																4	4	4	5
38/ 37	.2																	2	2	4	1
36/ 35	.4	.7	.1															10	10	4	4
34/ 33	.4	2.0	.7															25	25	14	12
32/ 31	.4	5.2	.9															52	52	19	17
30/ 29	1.4	2.3	1.4															41	41	59	15
28/ 27	.6	4.3	.1															41	41	42	26
26/ 25	1.0	4.2	1.0	.1														51	51	44	48
24/ 23	1.2	3.1	.2															37	37	55	35
22/ 21	1.2	3.7	.4															43	43	43	37
20/ 19	1.7	6.5	.1															68	68	44	46
18/ 17	.2	4.9	.4															45	45	59	43
16/ 15	.9	6.7	.1															62	63	58	41
14/ 13	.9	4.4	.9															46	46	44	49
12/ 11	1.7	3.8	.1															46	46	53	48
10/ 9	1.8	3.6	.2															46	46	49	54
8/ 7	1.7	3.5																42	42	47	40
6/ 5	1.0	2.3																27	27	41	37
4/ 3	.1	2.5																26	26	28	36
2/ 1	.9	2.7																29	32	26	38
0/ -1	1.8	.2																17	17	24	37
-2/ -3	1.2	.6																15	15	16	25
-4/ -5	.5																	4	4	5	35
-6/ -7	1.0																	8	8	8	11
-8/ -9	.3																	4	4	4	30
-10/-11	.6																	5	5	5	15
-12/-13	.2																	2	2	2	10
-14/-15																					6
-16/-17																					7

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

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

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 2 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	24.4	68.6	6.8	.2														811	816	811	811

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4930016	62470	77.0	12.073	811							
Dry Bulb	345587	14133	17.3	11.121	816	6.3	86.7					93
Wet Bulb	306038	13130	16.2	10.742	811	7.3	88.8					93
Dew Point	224796	9072	11.2	12.339	811	20.2	90.1					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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JAN (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
52/ 51			.0	.0		.0												4	4		
50/ 49		.0	.0		.0	.0												7	7		
48/ 47		.1	.1		.1													16	16	4	
46/ 45		.2	.1	.1	.0													26	26	13	8
44/ 43	.0	.2	.2	.2														39	40	19	12
42/ 41	.1	.2	.3	.0	.1													44	45	38	29
40/ 39	.2	.2	.3	.1	.0													51	51	36	23
38/ 37	.2	.2	.3	.1														54	54	60	23
36/ 35	.1	1.1	.7		.0													132	133	58	29
34/ 33	.4	1.9	.7	.2														206	206	156	79
32/ 31	.8	3.8	1.4	.3	.0													412	413	265	162
30/ 29	1.1	2.6	1.1	.1														318	320	357	185
28/ 27	.8	3.4	.9	.1														332	333	333	243
26/ 25	1.2	4.3	1.2	.0														436	437	383	305
24/ 23	.8	2.7	.8															280	280	439	244
22/ 21	1.8	3.7	.7	.0														406	407	387	290
20/ 19	2.0	5.9	.8	.0														568	571	413	431
18/ 17	.9	4.3	.9															399	400	485	365
16/ 15	1.3	4.6	.9															438	439	451	381
14/ 13	1.4	4.6	.5															425	428	396	412
12/ 11	1.3	3.4	.5															341	342	400	387
10/ 9	1.5	3.5	.4															347	347	367	394
8/ 7	1.3	2.8	.1															265	265	356	322
6/ 5	.6	1.8																157	157	224	249
4/ 3	.8	1.5																152	152	176	292
2/ 1	.9	2.2																204	207	183	331
0/ -1	1.4	.2																108	113	152	224
-2/ -3	1.1	.2																89	89	101	200
-4/ -5	.8	.1																53	53	56	196
-6/ -7	.8																	53	53	54	139
-8/ -9	.7																	46	46	46	161
-10/-11	.4																	25	25	25	141
-12/-13	.2																	14	14	14	71
-14/-15	.4																	23	23	23	53

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

FORM AR 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

72639U — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JAN — MONTH

PAGE 2

ALL — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-16/-17	.2																	14	14	14	44
-18/-19	.1																	4	4	4	51
-20/-21																					10
-22/-23																					1
-26/-27																					1
TOTAL	25.8	59.9	12.8	1.3	.3	.0													6514		6488
																		6488		6488	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.	5858925	491328	75.7	13.496	6488							
Dry Bulb	3438542	119184	18.3	11.457	6514	49.6	677.5					744
Wet Bulb	2698027	110013	17.0	10.984	6488	56.1	780.0					744
Dew Point	1986986	75406	11.6	12.604	6488	148.2	720.7					744

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 1 — 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45		.1																1	1		
44/ 43		.1																1	1	1	
42/ 41		.5	.4															7	7	3	1
40/ 39		.3		.5														6	6	5	5
38/ 37	.3	.1	.5	.3														9	9	6	4
36/ 35	.9	.7	.5															16	16	9	5
34/ 33	1.8	1.2	.7															27	27	27	20
32/ 31	1.5	1.9	1.8	.3														40	40	31	20
30/ 29	1.9	1.5	.7															30	30	33	19
28/ 27	2.7	3.4	.5															49	49	41	28
26/ 25	1.4	3.1	.8															39	39	45	41
24/ 23	.3	2.3	.5															23	23	33	19
22/ 21	.7	4.6	.4															42	42	27	29
20/ 19	.4	4.6																37	38	38	29
18/ 17	1.9	5.4	.4															42	42	52	16
16/ 15	.8	4.7	.3															43	44	39	48
14/ 13	1.4	3.9																39	39	41	46
12/ 11	1.8	2.6	.3															34	34	41	49
10/ 9	1.4	4.1	.1															41	41	30	32
8/ 7	1.2	5.0																46	46	50	36
6/ 5	1.4	3.5																36	36	44	33
4/ 3	.9	2.4																25	25	32	33
2/ 1	.4	2.2																19	19	16	44
0/ -1	2.0	.5																19	19	25	19
-2/ -3	2.2	.1																17	17	20	28
-4/ -5	1.5	.1																12	12	13	20
-6/ -7	.3																	2	2	2	20
-8/ -9	1.4																	10	10	10	40
-10/-11	1.2																	9	9	9	21
-12/-13	.8																	6	6	6	10
-14/-15	.5																	4	4	4	19
-16/-17																					5
-18/-19	.4																	3	3	3	1
-20/-21	.1																	1	1	1	5

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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PAGE 2 — HOURS (L. S. T.): 0000-0200

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-22/-23	.3																	2	2	2	12
-24/-25	.1																	1	1	1	
-26/-27	.1																	1	1	1	
-28/-29	.1																	1	1	1	2
-32/-33																					1
-34/-35																					1
-36/-37																					1
TOTAL	33.9	57.0	8.0	1.1															742		740
																		740		740	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4490312	56830	76.8	13.054	740							
Dry Bulb	313492	11836	16.0	12.972	742	10.0	76.4					84
Wet Bulb	280228	10986	14.8	12.590	740	11.1	78.4					84
Dew Point	223319	7199	9.7	14.402	740	21.0	80.3					84

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 1 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
42/ 41	.1	.1																2	2	1	1
40/ 39	.7	.8	.1	.1														13	13	7	4
38/ 37		.5	.1	.3														7	7	8	4
36/ 35	.5	.3	1.1															14	14	6	7
34/ 33	1.5	.9	.5															22	23	20	11
32/ 31	1.3	2.7	1.1															38	38	30	17
30/ 29	2.2	1.7	.8															35	35	37	25
28/ 27	2.4	4.4	.4	.1														55	55	42	29
26/ 25	1.1	2.1	.3															30	30	44	36
24/ 23	.3	3.2	.4															29	29	28	27
22/ 21	.3	1.7	.4															18	18	26	27
20/ 19	2.2	4.3	.3															50	50	37	26
18/ 17	1.7	3.5	.1															40	41	52	39
16/ 15	2.6	2.8																40	41	38	29
14/ 13	1.3	3.9																39	39	34	58
12/ 11	2.2	3.5																42	42	45	36
10/ 9	1.2	3.5																35	35	38	34
8/ 7	1.6	3.5																38	38	36	32
6/ 5	.8	2.7																26	26	33	32
4/ 3	2.0	2.3																32	32	37	25
2/ 1	1.1	2.6																32	32	34	40
0/ -1	2.2	.3																18	18	20	25
-2/ -3	2.2	.3																18	18	20	26
-4/ -5	1.6	.1																13	13	12	28
-6/ -7	1.6																	12	12	13	26
-8/ -9	.7																	5	5	5	12
-10/-11	1.3																	10	10	10	15
-12/-13	1.5																	11	11	11	14
-14/-15	.7																	5	5	5	16
-16/-17	.7																	5	5	5	11
-18/-19	.1																	1	1	1	6
-20/-21	.3																	2	2	2	6
-22/-23	.1																	1	1	1	8
-24/-25	.1																	1	1	1	4

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	FEB

PAGE 2 — HOURS (L. S. T.): 0300-0500

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27	.1																	1	1	1	1
-28/-29																					2
-30/-31	.1																	1	1	1	
-32/-33	.4																	3	3	3	1
-36/-37																					3
-38/-39																					1
TOTAL	41.4	52.4	5.6	.5														744	747	744	744

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	4725833	58617	78.8	12.035	744							
Dry Bulb	504314	11071	14.8	13.711	747	12.0	77.4					84
Wet Bulb	276013	10345	13.9	13.337	744	12.5	79.3					84
Dew Point	229255	6873	9.2	14.937	744	23.1	81.0					84

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

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 1 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
42/ 41	.1	.3																3	3	2	1
40/ 39	.7	.7	.3															12	12	6	7
38/ 37		.1	.3	.3														5	5	7	1
36/ 35	.1		.9															8	9	2	5
34/ 33	.8	1.1	.4															17	17	14	7
32/ 31	1.7	3.3	1.1	.1														47	47	35	20
30/ 29	1.3	2.3	.5															31	31	36	22
28/ 27	2.4	3.7	.7	.4														54	54	40	28
26/ 25	1.3	2.7	.1															31	31	49	42
24/ 23	.8	2.9																28	28	34	21
22/ 21	.0	3.6	.3															35	35	40	32
20/ 19	2.4	2.8																39	39	44	37
18/ 17	2.0	2.8																36	36	39	38
16/ 15	2.5	3.6																46	46	40	42
14/ 13	2.5	1.2																28	29	37	40
12/ 11	2.5	2.9	.1															42	42	37	44
10/ 9	1.9	3.6	.1															42	42	43	35
8/ 7	1.1	4.0																38	38	31	24
6/ 5	2.1	2.3																33	33	49	22
4/ 3	2.3	1.5																28	28	30	33
2/ 1	1.7	1.9																27	27	27	42
0/ -1	1.9	.3																16	18	16	32
-2/ -3	1.6	.1																13	13	15	23
-4/ -5	2.3	.1																18	19	18	16
-6/ -7	1.7																	13	13	13	26
-8/ -9	1.5																	11	11	11	15
-10/-11	.8																	6	6	6	12
-12/-13	1.3																	10	10	10	11
-14/-15	.7																	5	5	5	14
-16/-17	.9																	7	7	7	15
-18/-19	1.5																	11	11	11	12
-20/-21																					6
-22/-23	.1																	1	1	1	4
-24/-25																					5

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 75 F	≥ 80 F	≥ 90 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 2

0600-0800 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-26/-27																					2
-28/-29	.1																	1	1	1	5
-30/-31	.1																	1	1	1	
-32/-33	.4																	3	3	3	
-34/-35	.1																	1	1	1	
-36/-37																					2
-38/-39																					5
-40/-41																					1
TOTAL	46.5	47.9	4.8	.8														747	752	747	747

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4424221	59977	80.3	12.068	747							
Dry Bulb	300958	10682	14.2	14.095	752	13.4	76.9					84
Wet Bulb	274948	10052	13.5	13.084	747	13.4	80.5					84
Dew Point	234984	6820	9.1	15.216	747	22.9	81.6					84

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

726340 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

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

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
WET BULB TEMPERATURE DEPRESSION (F)																					
50/ 49					.1													1	1		
48/ 47				.3														2	2		
46/ 45					.3													2	2		
44/ 43			.3															2	2	1	
42/ 41	.1	.3	.3	.1														6	6	4	2
40/ 39	.4	.3	.5	.1														10	10	7	4
38/ 37		.5	.3	.3	.3													10	10	10	1
36/ 35	1.1	1.6	.5	.1														25	25	20	18
34/ 33	1.5	1.6	.7															28	28	24	27
32/ 31	1.9	2.1	1.5	.5														45	45	30	40
30/ 29	1.7	3.5	1.1	.3														48	48	41	15
28/ 27	1.1	3.3	1.3															43	43	48	26
26/ 25	.8	3.3	1.3															41	41	38	36
24/ 23	.5	3.1	.9															32	32	39	25
22/ 21	1.2	4.1	.8															46	46	50	26
20/ 19	2.5	5.1	.5															61	62	56	44
18/ 17	1.7	3.3	.5															42	42	45	50
16/ 15	1.3	4.4	.5															47	49	46	55
14/ 13	1.7	3.2	.3															39	39	44	45
12/ 11	1.2	3.9	.7															43	43	38	47
10/ 9	.8	3.9	.1															36	36	40	37
8/ 7	1.1	3.6	....															35	35	44	22
6/ 5	.9	2.4																25	25	34	23
4/ 3	.7	1.3																15	15	19	41
2/ 1	1.1	1.3																18	18	18	34
0/ -1	1.5	.1																12	12	15	35
-2/ -3	.7	.3																7	7	7	23
-4/ -5	1.1	.1																9	9	10	23
-6/ -7	1.1																	8	8	8	18
-8/ -9	.3																	2	2	2	10
-10/-11	.1																	1	1	1	9
-12/-13	.5																	4	4	4	5
-14/-15																					5
-16/-17	.4																	3	3	3	11

Element (K)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 2 — 0900-1400 HOURS (Loc. S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-18/-19	.1																	1	1	1	5
-20/-21																					2
-24/-25	.1																	1	1	1	
-26/-27																					1
-30/-31																					1
SUBTOTAL	29.0	56.7	12.2	1.5	.7														751		748
																		748		748	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥90 F	Total
Rel. Hum.	4519691	57251	76.5	13.581	748							
Dry Bulb	371156	14170	18.9	11.764	751	5.4	74.4					84
Wet Bulb	327729	13157	17.6	11.354	748	5.8	76.6					84
Dew Point	240911	9305	12.4	13.124	748	16.6	78.6					84

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

726391 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 1 — 1200-1400 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
56/ 55						.3												2	2		
54/ 53					.1	.1												2	2		
52/ 51					.3													2	2		
50/ 49			.1	.1														2	2		
48/ 47				.1			.1											2	2		
46/ 45		.3	.1	.4	.1	.1												8	8	4	
44/ 43	.1	.3	.3	.4	.1													9	9	9	1
42/ 41	.1	.1	.3	.4	.4	.1												11	11	5	7
40/ 39	.4	.9	.9	1.2	.3	.1												29	29	9	3
38/ 37	.3	.9	.5	.8	.3													21	21	22	1
36/ 35	1.1	1.2	1.2	.7	.1													32	32	25	30
34/ 33	.8	.8	1.7	.5														29	29	37	22
32/ 31	1.5	1.5	4.0	.9														59	60	26	24
30/ 29	1.1	1.3	3.6	.5														49	49	52	12
28/ 27	.9	2.5	4.3	.8														64	64	45	20
26/ 25	.3	3.6	3.3	.4														57	57	62	38
24/ 23	.1	2.5	2.4	.3														40	40	63	28
22/ 21	.5	3.7	2.7	.4														55	55	61	34
20/ 19	.5	3.6	4.3	.4														66	67	47	52
18/ 17	.4	3.3	2.3															45	45	50	59
16/ 15	.3	2.3	1.3															29	29	65	40
14/ 13		2.1	.8															22	22	23	52
12/ 11	.1	1.7	1.1															22	22	27	34
10/ 9	.3	3.9	.1															32	32	31	38
8/ 7	.4	2.1																19	19	33	41
6/ 5		.9																7	7	15	30
4/ 3	.1	1.5																12	12	14	38
2/ 1	.1	1.3																11	11	6	37
0/ -1	.3	.4																5	5	9	16
-2/ -3	.1	.3																3	3	5	18
-4/ -5	.3																	2	2	3	29
-6/ -7																					18
-8/ -9																					7
-10/ -11																					7

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 2 1200-1400 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-16/-15																					3
-14/-15																					6
-16/-17																					3
TOTAL	10.2	43.3	35.4	8.4	1.7	.8	.1												750		748
																		748		748	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	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.	3483522	49706	66.5	15.534	748							
Dry Bulb	520912	18076	24.1	10.644	750	1.1	67.3					84
Wet Bulb	422322	16128	21.6	9.992	748	1.9	71.5					84
Dew Point	261107	10459	14.0	12.400	748	12.0	76.8					84

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 1 1500-1700 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
58/ 57							.1											1	1		
56/ 55						.1	.1											2	2		
54/ 53					.3	.3												4	4		
52/ 51						.1												1	1		
50/ 49				.1	.1	....												2	2		
48/ 47		.3	.4	.1		.3												8	8		
46/ 45		.3		.1	.3	.3												7	7	8	
44/ 43			.5	.1	.3	.1												8	8	10	2
42/ 41	.4		.4	.5	.4	.1	.1											13	13	3	5
40/ 39	....	.9	.5	.7	.4	.3	....											21	21	10	1
38/ 37		.5	.7	1.5														20	20	14	5
36/ 35	.7	1.9	.8	.4	.1													29	29	18	20
34/ 33	.4	1.4	1.2	.5														26	26	39	16
32/ 31	.7	2.7	2.8	.8	.1													53	53	30	29
30/ 29	1.5	4.7	4.2	1.2	.1													72	72	55	16
28/ 27	....	2.0	3.2	1.2	....													52	52	42	25
26/ 25		4.6	2.8	.9														62	62	61	29
24/ 23	.1	3.2	3.0	1.4														57	57	70	35
22/ 21	.9	3.9	3.1	.5														63	63	70	33
20/ 19	.1	2.7	4.3	.1														54	55	54	46
18/ 17		2.2	1.9															30	30	48	58
16/ 15		2.4	2.0															33	33	44	51
14/ 13		1.5	1.1															19	19	32	43
12/ 11		1.4	1.1															18	18	24	36
10/ 9	.5	3.2	.7															33	33	25	36
8/ 7	.3	1.6	.1															15	15	36	42
6/ 5	.1	1.5																12	12	13	16
4/ 3	....	.9																7	7	14	30
2/ 1		2.0																15	15	5	38
0/ -1	.1																	1	1	13	17
-2/ -3		.1																1	1	1	21
-4/ -5		.1																1	1	1	38
-6/ -7																					16
-8/ -9																					6

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 2 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-10/-11																					14
-12/-13																					6
-14/-15																					6
-16/-17																					4
TOTAL	5.9	44.7	35.0	10.1	2.2	1.6	.4											740	741	740	740

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3216457	47279	63.9	16.276	740							
Dry Bulb	529712	18228	24.6	10.483	741	.3	67.9					84
Wet Bulb	422790	16138	21.8	9.792	740	1.7	72.4					84
Dew Point	252552	9956	13.5	12.669	740	14.5	78.4					84

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726490 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 41				.1														1	1		
42/ 45		.4	.1	.1														5	5		
44/ 43		.1	.3		.3													5	5	3	2
42/ 41		.3	.4	.4														8	8	4	2
40/ 39	.3	.7	.5	.3		.1												14	14	9	3
38/ 37	.1	.8		1.6														19	19	9	2
36/ 35		1.6	.4	.3	.1													18	18	17	10
34/ 33	1.0	3.0	.8															35	35	27	23
32/ 31	1.1	3.9	2.3															54	54	39	26
30/ 29	1.5	1.9	2.7															45	45	47	26
28/ 27	.8	3.1	2.2	.3														47	47	45	25
26/ 25	.1	3.1	2.6	.3														49	49	47	28
24/ 23	.1	2.6	1.4	.1														31	32	41	23
22/ 21	1.1	4.2	1.8															52	53	52	38
20/ 19	.5	6.1	1.9															63	63	45	53
18/ 17	.8	3.4	.8															37	38	65	30
16/ 15	.7	4.1	2.2															51	52	42	42
14/ 13	1.0	3.1	1.1															38	38	47	54
12/ 11	.5	2.7	.5															28	28	34	44
10/ 9	.4	3.8	.3															33	33	33	39
8/ 7		2.4	.3															20	20	31	43
6/ 5	.3	2.4																20	20	24	12
4/ 3	.1	2.2																17	17	21	32
2/ 1	.1	2.2																17	17	19	30
0/ -1	1.0	.5																11	11	13	23
-2/ -3	.4																	3	3	7	22
-4/ -5	.4	.4																6	6	5	23
-6/ -7	.5	.1																5	5	6	16
-8/ -9	.4																	3	3	3	13
-10/ -11																					17
-12/ -13																					14
-14/ -15	.1																	1	1	1	10
-16/ -17																					8
-18/ -19																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
FEB — MONTH

PAGE 2

1800-2000 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]/-21																					1
[illegible]/-23																					1
[illegible]	13.5	59.9	22.6	3.5	.9	.1													740		736
																		736		736	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3827033	51919	70.5	14.963	736							
Dry Bulb	412393	15437	20.9	11.058	740	3.3	72.1					84
Wet Bulb	350245	14003	19.0	10.679	736	4.0	76.1					84
Dew Point	242232	9118	12.4	13.262	736	17.0	79.2					84

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
46/ 45		.4																3	3	1	
44/ 43																				2	3
42/ 41		.3	.4	.1														6	6		
40/ 39	.4	.4	.1	.1														8	8	6	3
38/ 37		1.1	.3	.4														13	13	7	2
36/ 35	.1	1.2	1.1	.1														19	20	11	5
34/ 33	1.3	2.4	1.3															38	38	21	24
32/ 31	1.7	2.6	.8	.4														41	41	50	25
30/ 29	2.3	2.4	2.0															50	50	42	27
28/ 27	1.9	2.3	1.1															39	39	42	35
26/ 25	.9	3.5	.8															39	39	40	29
24/ 23	.1	3.1	.5															26	26	38	29
22/ 21	1.2	3.6	1.3															46	46	38	21
20/ 19	1.5	3.6	.4															41	41	38	41
18/ 17	.9	3.1	.4															33	33	42	34
16/ 15	1.5	4.7	.7															51	51	49	38
14/ 13	1.9	2.8	.4															38	38	38	47
12/ 11	1.9	3.2	.4															41	41	44	49
10/ 9	2.2	3.9	.3															47	47	44	40
8/ 7	.4	3.9																32	32	43	37
6/ 5	.3	2.3																19	19	23	15
4/ 3	.7	2.2																21	21	25	27
2/ 1	.3	3.5																28	28	28	32
0/ -1	1.1	1.5																12	12	15	26
-2/ -3	.8	.5																10	10	13	22
-4/ -5	.9	.4																10	10	10	27
-6/ -7	1.2	.1																10	10	11	19
-8/ -9	1.3																	10	10	10	18
-10/-11	.6																	6	6	6	7
-12/-13	.5																	2	2	2	19
-14/-15																					16
-16/-17	.1																	1	1	1	11
-18/-19	.3																	2	2	2	9
-20/-21	.1																	1	1	1	1

Element (X)	$\Sigma X'$	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												

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 2 2100-2300 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-21/-23																					3
-24/-25	.1																	1	1	1	2
-26/-31																					1
TOTAL	28.6	58.1	12.1	1.2															745		744
																		744		744	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4402861	56245	75.6	14.249	744							
Dry Bulb	350335	13237	17.8	12.440	745	7.5	74.1					84
Wet Bulb	309806	12258	16.5	12.048	744	8.1	78.6					84
Dew Point	241250	8222	11.1	14.227	744	20.4	79.8					84

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
58/ 57							.0											1	1		
56/ 55						.1	.0											4	4		
54/ 53					.1	.1												6	6		
52/ 51					.0	.0												3	3		
50/ 49			.0	.0	.0													5	5		
48/ 47		.0	.1	.1		.0	.0											13	13		
46/ 45		.2	.0	.1	.1	.1												26	26	13	
44/ 43	.0	.1	.2	.1	.1	.0												25	25	26	8
42/ 41	.1	.2	.3	.2	.1	.0	.0											56	56	22	19
40/ 39	.4	.6	.4	.4	.1	.1												115	115	57	28
38/ 37	.1	.6	.3	.7	.1													104	104	82	20
36/ 35	.6	1.1	.8	.2	.1													163	163	108	96
34/ 33	1.1	1.5	.9	.1														222	223	209	150
32/ 31	1.4	2.6	1.9	.4	.0													375	376	271	187
30/ 29	1.7	2.2	2.0	.3	.0													360	360	343	162
28/ 27	1.5	3.2	1.7	.4														403	403	345	216
26/ 25	.7	3.4	1.5	.2														348	348	386	279
24/ 23	.3	2.9	1.1	.2														266	267	346	207
22/ 21	.8	3.7	1.3	.1														357	358	350	240
20/ 19	1.3	4.1	1.5	.1														411	415	359	328
18/ 17	1.2	3.1	.8															305	307	393	324
16/ 15	1.2	3.0	.9															340	345	363	345
14/ 13	1.2	2.7	.5															262	263	296	385
12/ 11	1.3	2.7	.5															270	270	290	339
10/ 9	1.1	3.7	.2															299	299	284	291
8/ 7	.8	3.3	.1															243	243	304	277
6/ 5	.7	2.3																178	178	235	183
4/ 3	.9	1.8																157	157	192	259
2/ 1	.7	2.1																167	167	153	297
0/ -1	1.2	.3																94	96	126	193
-2/ -3	1.0	.2																72	72	88	183
-4/ -5	1.0	.2																71	72	72	204
-6/ -7	.8	.0																50	50	53	159
-8/ -9	.7																	41	41	41	101

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

USAFETAC FORM 0-26-5 (OL A) 1 JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) FEB (MONTH)

PAGE 2 ALL (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-10/-11	.5																	32	32	32	102
-12/-13	.6																	33	33	33	82
-14/-15	.3																	15	15	15	92
-16/-17	.3																	16	16	16	68
-18/-19	.3																	18	18	18	34
-20/-21	.1																	4	4	4	21
-22/-23	.1																	4	4	4	28
-24/-25	.1																	4	4	4	11
-26/-27	.0																	2	2	2	4
-28/-29	.0																	2	2	2	9
-30/-31	.0																	2	2	2	2
-32/-33	.1																	6	6	6	2
-34/-35	.0																	1	1	1	1
-36/-37																					6
-38/-39																					4
-40/-41																					1
TOTAL	20.1	52.5	16.9	3.4	.6	.3	.1											5947	5968	5947	5947

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	33589730	437824	73.6	15.105	5947							
Dry Bulb	3102857	112737	18.9	12.771	5968	52.9	588.5					672
Wet Bulb	2664077	103067	17.3	12.150	5947	58.6	613.5					672
Dew Point	1929110	67952	11.4	13.923	5947	147.7	635.7					672

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

126390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
62/ 61				.2		.2												4	4		
60/ 59			.1		.1													2	2		
58/ 55			.1															1	1	3	
54/ 53																					2
52/ 51		.1				.1												2	2	4	1
50/ 49	.1	.2	.5		.1													8	8	2	2
48/ 47		.2	.2		.1													5	5	3	3
46/ 45	.4	.2	.1															6	6	10	5
44/ 43	.5	.2	.5	.4														13	13	8	8
42/ 41	.1	1.7	.5	.7	.1													26	26	10	10
40/ 39	1.5	1.5	.9															31	31	34	19
38/ 37	.9	1.6	.6	.5														29	29	28	18
36/ 35	1.6	2.8	.6	.2														43	43	36	28
34/ 33	2.0	5.3	1.1	....														68	68	55	30
32/ 31	2.4	8.5	1.8	.4														108	109	70	70
30/ 29	2.3	4.6	1.7	.7														77	77	95	62
28/ 27	1.5	5.0	2.2	.2														73	73	67	66
26/ 25	1.5	2.4	.9	.1														40	40	73	57
24/ 23	.6	1.8	.6															25	25	40	40
22/ 21	1.8	2.9	..															39	39	45	36
20/ 19	2.2	4.2	.5	.2														58	58	38	69
18/ 17	1.0	2.4	.2															30	30	50	45
16/ 15	.6	2.8	.2															30	30	25	27
14/ 13	.6	1.7																19	19	30	31
12/ 11	.9	1.6																20	20	20	39
10/ 9	.5	1.7																18	18	18	34
8/ 7	.7	1.5																18	18	22	17
6/ 5		.9																7	7	14	17
4/ 3	.4	.4																6	6	4	24
2/ 1	.2	.4																5	5	5	20
0/ -1	.4																	3	3	5	11
-2/ -3	....	.5																4	4	1	11
-4/ -5	.1																	1	1	4	4
-6/ -7																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639U — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAR — MONTH

PAGE 2

0000-0200 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-[illegible]/-9																					3
-1[illegible]/-11																					1
-14/-15																					5
-1[illegible]/-17																					3
TOTAL	24.7	57.3	13.4	3.8	.5	.4												819	820	819	819

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5418118	65654	80.2	13.768	819							
Dry Bulb	697476	22308	27.2	10.546	820	.9	66.0					93
Wet Bulb	625789	21047	25.7	10.189	819	1.1	71.1					93
Dew Point	499824	17686	21.6	12.006	819	4.9	78.7					93

USAFETAC FORM AS 04 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 0300-0500 (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
60/ 59						.4												3	3		
58/ 57			.1															1	1		
56/ 55																				1	
54/ 53																					1
52/ 49		.4																3	3	3	
48/ 47	.2	.2	.2															6	6	5	3
46/ 45	.1	.5	.1	.2														8	8	6	4
44/ 43	.4	.5	.6															12	12	7	8
42/ 41	.9	1.0	.2	.1														18	18	17	15
40/ 39	1.0	1.3	1.8	.4														37	37	21	11
38/ 37	1.2	1.8	1.0	.7														39	39	25	22
36/ 35	1.0	2.7	.5	.1														35	35	39	14
34/ 33	2.6	2.6	.5	.1														47	47	58	44
32/ 31	1.8	10.0	2.0															113	113	63	52
30/ 29	1.8	4.2	1.3	.2														62	62	95	62
28/ 27	2.9	6.1	1.0															82	82	68	70
26/ 25	1.2	4.3	.9	.2														54	56	74	59
24/ 23	.4	.9	.7															16	16	38	42
22/ 21	2.6	2.1	.2															40	40	37	54
20/ 19	2.6	4.6	.1															60	60	50	62
18/ 17	1.5	1.7	.2															28	28	43	34
16/ 15	.7	1.4	.2															23	23	25	34
14/ 13	1.0	1.3	.4															27	27	24	32
12/ 11	1.0	1.7	.1															25	25	27	38
10/ 9	1.1	1.6																22	22	23	32
8/ 7	1.3	.5																15	15	22	20
6/ 5	.2	.6																7	7	9	15
4/ 3	.9	.3																11	11	9	25
2/ 1	.4	.4																6	6	7	15
0/ -1	1.1																	9	9	11	8
-2/ -3	.4																	3	3	3	7
-4/ -5	.5																	4	4	4	13
-6/ -7	.5																	4	4	4	6
-8/ -9																					3

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Item No. of Hours with Temperature	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 92 F	Total

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

726390	PHELPS-COLLINS/ALPENA MI	73-81	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 2 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-1 /-11																					2
-12/-13																					4
-14/-15																					2
-16/-17																					5
TOTAL	51.6	53.3	12.3	2.2		.4												818	820	818	818

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5605347	66891	81.8	12.874	818							
Dry Bulb	654879	21343	26.0	11.015	820	2.3	69.3					93
Wet Bulb	592299	20233	24.7	10.603	818	2.5	72.3					93
Dew Point	480542	17160	21.0	12.148	818	5.7	79.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
56/ 57			.4															3	3		
54/ 55																				1	
54/ 53																				2	
52/ 51		.1																1	1		3
50/ 49		.6																5	5	1	
48/ 47		.1		.1														2	2	5	3
46/ 45	.2	.6	.1	.2														10	10	3	6
44/ 43	.2	1.0	.2	....														12	12	9	6
42/ 41	.9	.4	.1	.1	.1													13	13	17	13
40/ 39	1.3	.6	.6	.4														24	24	17	14
38/ 37	1.1	2.7	1.2	.5														45	45	23	10
36/ 35	1.5	2.9	1.6	.1														50	51	39	24
34/ 33	3.3	3.0	1.0															60	60	71	50
32/ 31	1.2	2.1	1.7															82	82	62	48
30/ 29	3.4	4.3	1.2	.1														74	75	82	47
28/ 27	2.8	4.8	1.3															73	73	76	68
26/ 25	2.2	3.4	.5															50	50	63	73
24/ 23	1.2	1.9	.4															29	29	56	43
22/ 21	2.1	2.2	.2															37	37	29	54
20/ 19	1.8	4.9	.9															62	62	45	59
18/ 17	1.5	1.2	.1															23	24	40	29
16/ 15	.7	2.1																23	23	25	45
14/ 13	1.0	1.9	.1															25	25	24	27
12/ 11	1.5	1.2	.2															24	24	28	31
10/ 9	.9	1.0																15	15	22	28
8/ 7	.5	1.0																12	12	11	14
6/ 5	1.3	.5																15	15	17	25
4/ 3	1.5	.2																14	14	15	16
2/ 1	1.1	.5																13	13	12	22
0/ -1	.6	.2																7	7	6	16
-2/ -3	.2	.1																3	3	4	12
-4/ -5	.4	....																5	5	4	7
-6/ -7	.7																	6	6	6	6
-8/ -9	.6																	5	5	5	3

WET BULB TEMPERATURE DEPRESSION (F)

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAR — MONTH

PAGE 2

0600-0800 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-9.4/-11	.1																	1	1	1	4
-1.4/-13																					5
-14.4/-15																					4
-16.6/-17.8																					6
TOTAL	35.8	50.5	11.9	1.6	.1													821	824	821	821

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5728681	67809	82.6	12.500	821							
Dry Bulb	641165	20939	25.4	11.510	824	2.8	67.5					93
Wet Bulb	500675	19899	24.2	11.173	821	2.9	71.7					93
Dew Point	480599	16945	20.6	12.833	821	7.1	78.4					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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PAGE 1 — HOURS (L. S. T.) 0900-1100

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
68/ 67						.1												1	1		
64/ 63				.1														1	1		
62/ 61						.2												2	2		
61/ 59						.1												1	1	1	
58/ 57		.1		.1	.1		.1											4	4	1	
56/ 55		.1	.1		.1	.2												5	5	2	2
54/ 53	.1	.2	.1		.1		.1											6	6	1	2
52/ 51		.2	.1		.6	.1												9	9	6	1
50/ 49		.5	.1	.1	.2	.2												10	10	7	4
48/ 47	.1	.4	.4	.2	.2													11	11	7	5
46/ 45		.5	.1	.4	.5													12	12	10	7
44/ 43		.9	.6	.9	.5													23	23	14	6
42/ 41	.5	1.1	.6	2.0	.4	.1												38	38	18	9
40/ 39	1.1	1.8	2.0	1.2	.4	.1												54	54	31	20
38/ 37	1.6	2.6	1.6	1.5	.1	.1												61	61	52	29
36/ 35	1.5	2.6	2.0	1.0														57	57	68	32
34/ 33	.6	3.7	1.6	.5														52	52	59	33
32/ 31	1.7	7.1	2.7	1.0	.1													103	103	87	61
30/ 29	1.0	3.1	2.7	.4	.1													59	59	74	73
28/ 27	1.1	1.6	3.8	.5														57	57	53	73
26/ 25	.5	2.6	2.2	.5														47	47	54	59
24/ 23	.2	2.1	2.1	.2														38	38	56	29
22/ 21	.6	2.8	1.3	.1														40	40	49	46
20/ 19	.4	2.7	1.1															34	34	43	31
18/ 17	.9	1.2	.7															23	23	32	45
16/ 15	.6	1.2	.6															20	20	25	59
14/ 13	.5	.7	.7															16	16	21	41
12/ 11		.4	.1															8	8	9	26
10/ 9		1.3	.1															13	13	16	25
8/ 7		.5																4	4	10	16
6/ 5																				3	19
4/ 3		.4																3	3	2	12
2/ 1	.1	.1																2	2	3	17
0/ -1	.1	.1																2	2	1	8

Elevation (ft)	Σ_x	Σ_x^2	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Ref. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 2 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-2/ -3																				1	11
-4/ -5																					5
-6/ -7																					4
-8/ -9																					5
-11/-13																					1
TOTAL	43.2	43.5	27.6	10.1	3.6	1.5	.2											816	816		816
																		816		816	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4549392	59464	72.9	16.283	816							
Dry Bulb	870743	25299	31.0	10.295	816	.2	53.5	.1				93
Wet Bulb	735779	23207	28.4	9.642	816	.2	61.4					93
Dew Point	535664	18564	22.8	11.782	816	3.9	75.9					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 1200-1400 (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
72/ 71								.1	.1		.1							3	3		
66/ 65						.2												2	2		
64/ 63						.1												1	1		
62/ 61			.2			.1	.4											6	6		
6 / 59			.1			.1	.1	.4										6	6		
56/ 51		.4				.4		.1										7	7	4	
5 / 55		.1	.6	.2	.2	.6	.2											17	17	6	5
54/ 53		.6	.1	.2	.1	.4												12	12	3	1
52/ 51			.4	.5	.1	.6	.1											14	14	12	2
50/ 49	.1			.2	.9	1.0												18	18	8	10
48/ 47		.1	.5	.1	1.0	.4												17	17	14	3
46/ 45	.2		.5	.5	1.0	.6	.2											25	26	16	6
44/ 43	....	.6	1.7	2.1	1.3	.4	.1											51	51	12	4
42/ 41	.1	1.1	1.3	1.3	1.1	.2												43	43	26	12
40/ 39	.7	1.0	3.1	1.3	1.2	.2												62	62	50	27
38/ 37	.5	2.0	2.0	1.6	.7	.1												56	56	59	21
36/ 35	.6	1.2	2.3	1.2	.9	.2												53	53	73	26
34/ 33	1.0	3.8	3.8	1.2	.2													82	82	70	42
32/ 31	1.5	3.1	3.5	2.4	.5													90	90	90	67
30/ 29	.2	.4	3.3	2.0	.5													52	52	64	63
28/ 27	.2	1.3	3.3	1.1	.2													51	51	44	66
26/ 25	.1	.9	2.9	.9	.1													40	40	65	63
24/ 23	.4	.5	2.1	.5														28	28	62	33
22/ 21		1.2	1.6	.1														24	24	39	39
20/ 19	.4	1.1	1.7	.1														27	27	36	40
18/ 17	.4	.5	1.3															18	18	28	37
16/ 15		.4	.1															4	4	18	42
14/ 13		.2																2	2	9	49
12/ 11		.1	.1															2	2	3	40
10/ 9			.2															2	2	1	35
8/ 7		.1	..															1	1	5	19
6/ 5		.2																2	2	1	14
4/ 3																				2	16
2/ 1																					13

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 2 1200-1400 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible] / -1																					9
-2 / -3																					6
-4 / -5																					2
-8 / -9																					2
-10 / -11																					2
-12 / -13																					1
-14 / -15																					1
TOTAL	.5	20.9	30.9	17.7	10.1	5.7	1.2	.6	.1		.1							818	819	818	818

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3568227	51943	63.5	18.174	818							
Dry Bulb	1102881	28863	35.2	10.235	819		38.9	.3				93
Wet Bulb	857944	25422	31.1	9.115	818		52.9					93
Dew Point	550004	18904	23.1	11.767	818	2.6	74.9					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 1500-1700 (HOURS L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
72/ 71											.1							1	1		
70/ 69											.1							1	1		
68/ 67							.1											1	1		
66/ 65				.1		.1	.1	.2										5	5		
64/ 63					.2			.2										4	4		
62/ 61		.1	.4	.1			.2	.4										10	10		
60/ 59		.1		.1		.1	.2											5	5	2	
58/ 57		.1	.5		.4	.2	.4											13	13	6	2
56/ 55			.1	.1	.1	.1												4	4	5	4
54/ 53				.2	.2	.4	.2											9	9	5	2
52/ 51		.4		.2	.2	.2	.1											10	10	9	6
50/ 49			.4	.2	.1	.9	.2	.1										21	21	10	5
48/ 47		.1	.5	.2	.1	1.2	.1	.1										25	25	13	2
46/ 45		.5	.5	.7	1.8	.5	.2											35	35	11	2
44/ 43	.1	.2	1.8	1.2	.9	.4												38	38	15	8
42/ 41		.9	1.5	2.3	1.1	1.0	.1											56	56	22	7
40/ 39	.5	1.6	2.7	1.8	.9	.4												64	64	48	25
38/ 37	.2	1.8	1.5	1.5	1.1	.2												51	51	66	24
36/ 35	.6	2.1	2.2	2.2	.5	.1												63	63	80	26
34/ 33	1.6	3.2	2.5	1.1	.7													74	74	76	44
32/ 31	.7	3.4	3.1	3.9	.9													98	98	77	66
30/ 29	.1	1.3	2.7	1.8	.2													51	52	70	65
28/ 27	.4	1.1	1.8	1.6	.2													42	43	53	60
26/ 25	.5	1.1	2.8	.9	.4													46	46	74	65
24/ 23	.2	.1	1.0	.1														12	12	47	55
22/ 21	.4	.5	2.2	1.0														33	33	37	49
20/ 19	.4	2.0	1.3	.5														34	34	40	44
18/ 17	.1	.4																4	4	28	39
16/ 15																				16	39
14/ 13																					43
12/ 11			.2															2	2		44
10/ 9			.1															1	1		25
8/ 7		.2																2	2	3	23
6/ 5		.1																1	1	2	15

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAR — MONTH

PAGE 2

1500-1700 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
6/ 5																				1	8
4/ 1																					10
2/ -1																					7
-2/ -3																					12
-6/ -7																					3
-8/ -9																					1
-10/-11																					2
-12/-13																					2
-14/-15																					2
TOTAL	5.	9	21.	4	29.	8	22.	1	11.	4	5.	9	2.	2	1.	1	.2		818		816
																		816		816	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3450225	50779	62.2	18.873	816							
Dry Bulb	1140243	29393	35.9	10.144	818		37.3	.3				93
Wet Bulb	876378	25756	31.5	8.909	816		51.1					93
Dew Point	590802	18894	25.2	11.792	816	3.3	75.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726393 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

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

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
67/ 65					.1					.1								2	2		
67/ 63				.1	.1		.2											4	4		
67/ 61				.1	.1	.1			.1									4	4		
67/ 59		.1			.1			.1										3	3	1	
57/ 57		.2			.1	.1												4	4	3	
57/ 55		.6		.1	.1	.1	.1											9	9	6	4
47/ 53		.4			.1	.2												6	6	3	6
57/ 51		.2	.1	.1	.2													6	6	9	2
57/ 49				.2	.2													4	4	3	4
47/ 47		.2	.1	.4	.6	.2												13	13	3	2
47/ 45		.4	.6	.4	.6	.2	.1											19	19	11	3
47/ 43		.9	.5	.5	.4	.1	.1											20	20	11	7
57/ 41	.5	1.0	.7	1.0	.4	.1												30	30	18	8
47/ 39	.9	2.3	1.3	1.0	.6		.1											51	51	34	15
57/ 37	.5	2.1	2.1	1.7	.5													56	57	40	20
57/ 35	1.1	3.1	2.1	1.0	.7													65	65	61	33
37/ 33	1.5	6.1	2.5	1.0		.1												91	91	74	46
37/ 31	.1	5.9	4.2	1.2	.4													96	96	81	63
57/ 29	1.1	2.5	2.9	1.6	.4													69	70	90	60
27/ 27	.5	2.5	2.7	.5	.1													51	51	68	61
27/ 25	.4	2.8	2.3	.4														48	48	62	60
27/ 23	.1	1.8	1.7	.7														36	36	55	36
27/ 21	.5	1.2	1.8	.6														34	34	44	53
27/ 19	.7	2.7	1.8	.4														46	46	35	43
17/ 17	.5	1.7	.9															25	25	50	43
17/ 15		1.0	.5															12	12	29	50
17/ 13		.4																3	3	10	45
17/ 11		.4																3	3	6	44
17/ 9			.1															1	1	3	21
17/ 7			.2															2	2	1	11
17/ 5		.1																1	1	1	18
17/ 3		.1																1	1	2	14
17/ 1		.1																1	1	1	13
17/ -1																				1	10

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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 2 1800-2000 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-7/ -5																					4
-4/ -5																					5
-1/ -7																					6
-1/-13																					3
-1/-17																					3
TOTAL	4.3	40.8	29.3	13.0	6.0	1.5	.7	.1	.1	.1									818		816
																		816		816	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4222797	56893	69.7	17.727	816							
Dry Bulb	925802	26386	32.3	9.560	818		48.9					93
Wet Bulb	761068	23838	29.2	8.909	816	.1	61.4					93
Dew Point	532535	18505	22.7	11.769	816	3.5	75.9					93

USAFETAC FORM JUL 84 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAR — MONTH

PAGE 1 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
64/ 63				.2														2	2		
62/ 61				.1														1	1		
60/ 59					.1	.1												2	2		
58/ 57		.1						.1										2	2	2	
56/ 55			.2															2	2	2	
54/ 53		.6					.1											6	6	1	4
52/ 51		.6	.1	.1														7	7	9	5
50/ 49			.4	.1		.1												5	5	4	7
48/ 47		.1	.2	.4	.1													7	7	1	
46/ 45		.4	.5		.1													8	8	8	1
44/ 43		.5	1.1	1.0	.1													22	22	7	4
42/ 41	.4	1.0	.2	.4	.1													17	17	14	12
40/ 39	1.3	1.5	.7	.1														30	30	36	19
38/ 37	.7	1.9	.9															29	29	31	20
36/ 35	1.7	3.3	.9	.5	.1													53	53	37	30
34/ 33	2.4	5.0	1.5	.5	.1													78	78	60	39
32/ 31	1.7	9.5	3.0	.2	.1													120	120	84	64
30/ 29	1.5	4.3	2.6	.5														72	72	96	71
28/ 27	.9	6.2	2.3	.4														80	80	70	58
26/ 25	.5	3.4	1.9	.1														49	49	71	60
24/ 23	.2	1.9	1.1															27	27	53	35
22/ 21	.7	2.9	.9	.1														38	38	45	61
20/ 19	.7	3.3	1.3	.1														45	45	33	43
18/ 17	1.1	2.3	.9															35	35	46	54
16/ 15	.2	2.6	.4															26	26	32	35
14/ 13	.6	1.7	.2															21	21	25	29
12/ 11	.5	1.2	.2															16	16	21	45
10/ 9	.2	.7																8	8	16	33
8/ 7	.1	.2																3	3	5	23
6/ 5	.4	.6																8	8	8	12
4/ 3		.1																1	1	2	14
2/ 1		.1																1	1	1	16
0/ -1		.2																2	2	1	4
-2/ -3																				2	11

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PAGE 2 — HOURS (L. S. T.): 2100-2300

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-4/ -5																					5
-6/ -7																					3
-8/ -9																					1
-12/-13																					1
-14/-15																					2
-16/-17																					2
TOTAL	15.9	56.3	21.5	4.9	1.0	.2	.1	.1										823	823	823	823

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5085986	63566	77.2	19.647	823							
Dry Bulb	771990	23902	29.0	4.730	823	.2	62.4					93
Wet Bulb	678943	22337	27.1	9.404	823	.3	69.0					93
Dew Point	524292	18462	22.4	11.576	823	3.3	77.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAR (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
WET BULB TEMPERATURE DEPRESSION (F)																					
72/ 71								.0	.0		.0							4	4		
71/ 69											.0							1	1		
69/ 67						.0	.0											2	2		
66/ 65				.0	.0	.0	.0	.0		.0								9	9		
64/ 63				.1	.0	.0	.0	.0										12	12		
62/ 61		.0	.1	.1	.0	.1	.1	.0	.0									27	27		
60/ 59		.0	.0	.0	.0	.1	.0	.1										20	20	4	
58/ 57		.1	.1	.0	.1	.1	.1	.0										36	36	16	2
56/ 55		.1	.2	.1	.1	.1	.0											38	38	26	15
54/ 53	.0	.2	.0	.1	.1	.1	.1											39	39	15	17
52/ 51		.2	.1	.1	.2	.1	.0											49	49	49	21
50/ 49	.0	.2	.2	.1	.3	.3	.0	.0										74	74	38	32
48/ 47	.0	.2	.3	.2	.4	.2	.0	.0										86	86	51	21
46/ 45	.1	.4	.5	.5	.5	.2	.1											123	124	75	34
44/ 43	.2	.6	.9	.7	.4	.1	.0											191	191	83	51
42/ 41	.4	1.0	.7	1.0	.4	.2	.0											241	241	142	86
40/ 39	1.0	1.5	1.6	.8	.4	.1	.0											353	353	271	150
38/ 37	.8	2.1	1.3	1.0	.3	.1												366	367	324	164
36/ 35	1.2	2.6	1.5	.8	.3	.0												419	420	433	213
34/ 33	1.4	4.1	1.8	.5	.1	.0												552	552	523	328
32/ 31	1.4	6.8	2.7	1.1	.2													810	811	614	491
30/ 29	1.4	3.1	2.3	.9	.2													516	519	666	503
28/ 27	1.3	3.6	2.3	.5	.1													509	510	499	522
26/ 25	.9	2.6	1.8	.4	.1													374	376	536	496
24/ 23	.4	1.4	1.2	.2														211	211	407	293
22/ 21	1.1	2.0	1.0	.2														285	285	325	392
20/ 19	1.1	3.2	1.1	.2														366	366	320	391
18/ 17	.9	1.4	.5															186	187	317	329
16/ 15	.4	1.5	.3															138	138	195	331
14/ 13	.5	1.0	.2															113	113	143	297
12/ 11	.5	.9	.1															98	98	114	307
10/ 9	.3	.6	.1															80	80	99	233
8/ 7	.3	.3	.0															57	57	77	143
6/ 5	.2	.4																41	41	55	135

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_n	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 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	MAR

PAGE 2

HOURS (L. S. T.): ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
40/ 35	.5	.2																36	36	37	129
30/ 31	.2	.2																28	28	29	126
20/ -1	.3	.1																23	23	25	73
-10/ -5	.1	.1																10	10	11	74
-40/ -5	.1																	8	8	12	41
-30/ -7	.2																	10	10	10	29
-20/ -9	.1																	5	5	5	18
-10/-11	.0																	1	1	1	11
-10/-13																					17
-10/-15																					16
-10/-17																					19
TOTAL	17.8	43.0	22.8	9.5	4.1	1.9	.6	.2	.0	.0	.0								6558		6547
																		6547		6547	

Element (X)	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	37628773	482999	73.8	17.462	6547							
Dry Bulb	6805639	198433	30.3	11.055	6558	6.5	443.9	.8				744
Wet Bulb	5712875	181719	27.8	10.110	6547	7.3	511.0					744
Dew Point	4194862	145120	22.2	11.966	6547	33.9	619.1					744

USAFETAC FORM 0-26-3 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726340	PHELPS-COLLINS/ALPENA MI	73-81	APR
STATION	STATION NAME	YEARS	MONTH

PAGE 1 — 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69						.3												2	2		
68/ 67						.3		.1										3	3		
66/ 65			.1	.3			.1											4	4		
64/ 63		.1	.1		.1	.3	.3											7	7		
62/ 61	.1	.4	.1	.3	.1	.1												9	9	6	3
60/ 59	.1	.4	.6	.1			.1											10	10	7	
58/ 57		.4	.1			.5												8	8	8	8
56/ 55			.1	.1		.3												4	4	8	6
54/ 53		.8		.1	.1	.3												10	10	7	8
52/ 51	.3	.3			.1													5	5	11	9
50/ 49	.3	.1		.3	.3													7	7	8	8
48/ 47	.4	1.3	.3	.5	.4	.1												23	23	8	7
46/ 45	.4	1.4	.5	1.1														27	27	22	11
44/ 43	.3	1.9	1.5	1.3	.8	.5												49	49	20	16
42/ 41	.5	1.7	2.0	1.4	.6													49	49	30	24
40/ 39	1.1	3.8	2.9	1.0	.4													69	69	49	25
38/ 37	.3	2.0	2.0	.5	.1													39	39	64	28
36/ 35	.5	4.0	2.0	.9	.3													60	60	54	33
34/ 33	3.4	6.0	2.3	.8														98	98	99	76
32/ 31	.9	6.1	3.6	.6														88	88	75	88
30/ 29	1.3	4.1	3.6	.4														73	73	73	66
28/ 27	.5	3.2	1.8	.1														44	44	71	53
26/ 25	.6	3.2	1.7															43	43	64	56
24/ 23		.8	1.1															15	15	38	32
22/ 21		1.0	1.1	.1														18	18	20	38
20/ 19	.1	.5	.8															11	12	19	67
18/ 17	.3	.3	.1															5	5	12	49
16/ 15	.1	.4																4	4	10	18
14/ 13																				1	20
12/ 11																					21
10/ 9																					8
8/ 7																					5
6/ 5																					1
4/ 3																					4

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 2 0000-0200 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
<-1 -5																					3
																					1
TOTAL	11.	44.	0	28.2	9.9	3.3	2.6	.5	.1										785		784
																		784		784	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4694963	59447	75.8	15.470	784							
Dry Bulb	1102282	28430	36.2	9.626	785		34.6	.6				90
Wet Bulb	943867	26281	33.5	8.962	784		44.0					90
Dew Point	740594	22606	28.8	10.648	784	.1	59.9					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
75-81 — YEARS
APR — MONTH

PAGE 1 — 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
68/ 67				.3	.3													4	4		
66/ 65			.1	.1	.4	.3												7	7		
64/ 63		.1	.1		.1	.1												4	4		
62/ 61		.5																4	4	6	1
60/ 59		.4	.5	.5	.1													10	10	7	5
58/ 57		.4	.1	.1	.1	.6	.3											13	13	9	6
56/ 55		.1	.3	.1	.1													5	5	7	5
54/ 53		.8		.3														8	8	11	10
52/ 51		.3			.3													4	4	3	8
50/ 49	.4	.4	.1		.1													8	8	7	7
48/ 47	.3	.5	.5	.4	.1													14	14	14	8
46/ 45	.1	.8	.5	.9	.3													20	20	12	12
44/ 43	.9	2.0	.5	.4	.5													34	34	23	13
42/ 41		1.6	1.9	1.6	.4													44	44	18	14
40/ 39	1.8	4.2	1.5	1.5	.3													73	73	53	31
38/ 37	.6	2.9	1.6	.3														43	43	54	36
36/ 35	1.0	2.2	2.0		.1													42	42	58	29
34/ 33	2.0	6.8	1.3	.9														87	89	65	54
32/ 31	2.4	6.8	2.5	.4														96	96	94	91
30/ 29	1.5	4.8	3.5	.1														79	79	74	56
28/ 27	1.8	2.8	1.3	.4														49	49	78	56
26/ 25	.9	3.2	1.3	.3														44	44	58	73
24/ 23	.4	2.8	1.1	.1														35	35	39	42
22/ 21	.9	1.4	.6															23	23	40	46
20/ 19	.5	1.6	.1															18	18	25	57
18/ 17	.1	.6	.3															8	8	16	30
16/ 15	.4	.4	.5															10	10	10	20
14/ 13	.3		.1															3	3	4	33
12/ 11																				3	16
10/ 9																				1	14
8/ 7																					5
6/ 5																					3
4/ 3																					2
2/ 1																					2

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 STATION | PHELPS-COLLINS/ALPENA MI STATION NAME | 73-81 YEARS | APR MONTH

PAGE 2 | 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-1/ -1																					1
-4/ -5																					1
-6/ -7																					2
TOTAL	16.2	48.4	22.6	8.4	3.2	1.0	.3												791		789
																		789		789	

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5023214	61882	78.4	14.677	789							
Dry Bulb	1036802	27528	34.8	9.986	791		41.5	.5				90
Wet Bulb	904327	25675	32.5	9.346	789		50.4					90
Dew Point	727883	22383	28.4	10.858	789	.5	62.7					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 1 0600-0800 (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
68/ 67				.1	.1	.1	.1											4	4		
66/ 65			.5	.4	.1			.1										7	7		
64/ 63			.3	.5	.1	.1												6	6		
62/ 61	.1				.3													3	3	4	1
61/ 59		.3				.4												5	5	7	3
58/ 57	.1	.4	.3	.3		.4												11	11	7	6
56/ 55			.4	.3	.1	.1												7	7	6	5
54/ 53		.6		.1	.3	.1	.1											11	11	10	7
52/ 51		.8	.3	.5	.3	.4												15	15	9	6
50/ 49	.3	.4	.3	.3	.1	.1												11	11	10	11
48/ 47	.5	.9	.4	.3	.5	.4												23	23	15	13
46/ 45	.3	1.1	.9	1.0	.3													28	28	20	10
44/ 43	.1	2.4	1.8	.8	.5	.3												46	46	19	11
42/ 41	.3	2.1	2.3	2.0	.3													60	60	44	23
40/ 39	1.5	3.0	1.8	1.1	.6													67	67	50	29
38/ 37	.3	2.9	1.3	1.0														43	43	70	45
36/ 35	.3	2.8	2.4	1.0														51	51	56	35
34/ 33	3.5	6.4	2.5	.5														103	103	85	67
32/ 31	2.3	6.0	2.0	.4														85	86	96	89
30/ 29	.8	3.6	2.6	.3														58	58	78	58
28/ 27	.9	2.1	1.5	.4														39	39	47	71
26/ 25	.5	1.8	1.4	.1														30	30	48	77
24/ 23	.5	2.0	.9															27	28	33	23
22/ 21	.6	2.1	.4															25	25	31	35
20/ 19	.8	1.3	.1															17	17	27	61
18/ 17	.1	.1	.5															4	4	11	22
16/ 15	.1	.5	.3															7	7	5	21
14/ 13	.1	.3	.1															4	4	4	27
12/ 11																				4	14
10/ 9																				1	7
8/ 7																					10
6/ 5																					4
4/ 3																					3
2/ -1																					1

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												

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

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	APR

PAGE 2 — HOURS (L. S. T.): 0600-0800

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-7/ -3																					1
-35/ -7																					1
TOTAL	13.	644.	524.	311.	3.	5	2.	4	.3	.1								797	799	797	797

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4892846	61254	76.9	15.250	797							
Dry Bulb	1124325	28911	36.2	9.900	799		33.6	.5				90
Wet Bulb	966322	26788	33.6	9.102	797		43.5					90
Dew Point	765448	23234	29.2	10.522	797	.3	59.3					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
78/ 79									.1									1	1		
76/ 77							.1	.1	.1									3	3		
76/ 75							.3	....	....		.1							3	3		
74/ 73						.1	.3		.1	.3								6	6		
72/ 71					.3		.1	.3	.3	.1								8	8		
70/ 69				.1		.1			.1									3	3		
68/ 67				.3		.1	.1	.1	.1	.1								7	7		
66/ 65				.4	.1	.1	.3	.1	.3									10	10	2	
64/ 63		.1		.3		.1	.3	.3	.3									10	10	9	
62/ 61		.5						.6	.1									10	10	6	
60/ 59			.1	.1	.5	.9	.9	.4										23	23	10	7
58/ 57		.3		.1	.3	.4	.1	.8										15	15	7	8
56/ 55		.1	.1	.5	.6	.5	1.0	.1										24	24	10	9
54/ 53		.5	.3	.3	.8	.3	1.3	.1										27	27	11	4
52/ 51	.1	.3	.3	.5	.8	2.3	.4	.3										38	38	15	5
50/ 49	.3	1.0	.6	1.0	1.3	1.3	.5											47	47	22	9
48/ 47		1.0	.8	.8	2.9	1.8	.3											59	59	32	10
46/ 45		.8	1.0	.9	1.4	1.0												40	40	42	16
44/ 43		.9	2.0	1.9	.8	.9												51	51	47	25
42/ 41		1.3	1.6	2.5	1.4	.3												56	56	60	28
40/ 39	1.3	2.4	2.4	2.0	.8	.1												71	71	77	34
38/ 37	.5	1.3	1.6	2.0	1.0													51	51	86	35
36/ 35	.6	2.6	1.3	1.0	.8													50	50	71	50
34/ 33	1.6	1.8	1.6	1.3	.9													57	57	79	69
32/ 31	1.0	1.4	1.9	2.1	.3													53	53	47	69
30/ 29	.3	.9	1.5	.9	.3													27	27	43	72
28/ 27			1.1	.6														14	14	37	70
26/ 25	.4	.1	1.3															14	14	35	52
24/ 23			.5	.1														5	5	21	44
22/ 21		.1	.5															5	5	11	28
20/ 19		.1	.4															4	4	5	34
18/ 17		....	.1															1	1	5	18
16/ 15																				2	26
14/ 13																				1	23

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
APR — MONTH

PAGE 2 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
1 / 11																					20
/ 9																					10
/ 7																					10
/ 5																					4
/ 3																					3
/ 1																					1
TOTAL	5.	117.	021.	119.	714.	910.	2	5.8	3.2	1.5	.5	.1						793	793	793	793

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3503658	48852	61.6	19.273	793							
Dry Bulb	1600798	34518	43.5	11.140	793		14.0	3.5	1.5			90
Wet Bulb	1207511	30085	37.9	9.138	793		23.5					90
Dew Point	805485	23761	30.0	10.867	793		54.9					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
APR — MONTH

PAGE 1 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83											.3							2	2		
82/ 81								.1	.1	.1		.1						4	4		
[illegible] / 79								.5	.1	.1	.1							5	5		
77/ 77							.1	.1		.1	.5							7	7		
76/ 75							.5	.1		.5		.1						10	10		
74/ 73						.3	.3		.1	.3	.1							8	8		
72/ 71										.1	.1							2	2		
[illegible] / 69					.5	.1	.3	.3	.3	.1								10	10		
68/ 67				.1	.1	.1	.1	.1		.3								7	7	3	
66/ 65		.3			.3		.3	.4	.6	.3	.3							18	18	3	
64/ 63		.1		.1	.4	.5	.1	.4	.9	.3								22	22	16	1
62/ 61						.5	.6	.8	.8	.3								23	23	5	2
[illegible] / 59		.1	.1		.1	.4	.4	.9	.5									20	20	6	5
[illegible] / 57		.1	.5	.3	.4	.8	.4	1.0	.4									30	30	17	6
57/ 55		.1	.1	.1	.3	.6	1.6	1.0	.4									34	34	10	10
54/ 53			.5	.3	1.1	1.5	1.8	1.3	.1									52	52	17	3
52/ 51		.1	.3	.8	1.3	1.1	1.9	.5										47	47	17	13
50/ 49	.1	.6	.5	1.3	.8	1.3	.4	.3										41	41	28	9
[illegible] / 47		.8	1.0	.4	1.0	1.4	.5	.1										41	41	40	6
[illegible] / 45	.3	1.5	1.1	1.0	1.8	.6	.9											57	57	57	25
44/ 43	.1	.8	.8	1.9	1.6	.6	.1											47	47	79	24
42/ 41	.3	.9	1.0	2.2	1.0	1.1	.1											52	52	68	26
41/ 39	.8	1.0	1.5	1.8	1.0	.8	.1											55	56	64	39
39/ 37	.4	1.8	.9	1.0	.9	.1												40	40	74	39
37/ 35	1.5	1.5	.4	.4	1.4	.6												46	46	71	45
35/ 33	.5	.8	1.3	1.5	1.4													43	43	54	57
32/ 31	.1	1.1	1.3	.9	.4													30	30	32	81
30/ 29	.1	.3	.5	1.0														15	15	41	48
28/ 27	.1	.1	.6	.6														12	12	41	55
26/ 25	.1	.1	.5	.3														8	8	22	60
24/ 23			.1															1	1	17	34
22/ 21			.1															1	1	4	37
20/ 19																				3	35
18/ 17																				1	24

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												

USAFETAC FORM 0-26-5 (OL A) 3/1 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	75-81	APR

PAGE 2 — 1200-1400 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
16/ 15																					20
14/ 13																					24
12/ 11																					22
10/ 9																					18
8/ 7																					14
6/ 5																					4
4/ 3																					2
2/ 1																					1
0/ -1																					1
TOTAL	4.4	12.2	13.2	15.8	15.4	12.5	10.5	7.6	4.3	2.4	1.4	.3							791		790
																		790		790	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2681333	42839	54.2	21.311	790							
Dry Bulb	1902555	37599	47.5	12.083	791		7.6	6.3	4.1	1.1		90
Wet Bulb	1334951	31639	40.0	9.272	790		18.3	.3				90
Dew Point	808637	23593	29.9	11.483	790	.1	54.7					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 1 1500-1700 (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
86/ 85											.1	.1	.1					3	3		
84/ 83									.1	.1	.3							4	4		
82/ 81										.1	.1	.3						4	4		
80/ 79								.1	.3									3	3		
78/ 77												.1						1	1		
76/ 75								.4	.1	.1	.1							6	6		
74/ 73									.3	.1								3	3		
72/ 71						.3			.3	.4	.3							9	9		
70/ 69					.3		.3	.1	.4	.3	.1							11	11		
68/ 67						.3		.1	.3	.4	.3							10	10	1	
66/ 65			.1	.1	.3	.1	.1	.5	.4	.1								14	14	5	
64/ 63		.3	.1		.1	.3	.1	.6	.4	1.0								23	23	10	1
62/ 61		.4		.1	.4	.3	.5	.4	.4	.4								22	22	8	2
60/ 59			.1			.4	.4	.8	.6	.1								19	19	7	1
58/ 57		.4	.1		.1	.9	.6	.4	.9									27	27	8	8
56/ 55		.1	.3	.3	.3	.6	1.0	1.4	.8									37	37	18	6
54/ 53	.1	.3	.1	1.1	.5	1.0	1.9	1.8	.4									57	57	14	12
52/ 51	.1	1.1	.1	.4	1.5	1.4	1.1	.4										49	49	22	7
50/ 49		.6	.3	1.1	1.0	1.1	.6	.4										41	41	35	16
48/ 47	.1	.8	.4	.9	1.9	1.9												47	47	36	13
46/ 45		1.6	.9	1.8	.4	1.3	.1											48	48	42	16
44/ 43		1.0	1.1	1.3	1.4	1.4	.1	.3										52	52	79	13
42/ 41	.1	1.4	.6	1.6	1.0	1.4	.6											54	54	82	33
40/ 39	1.0	1.3	1.3	1.5	1.1	1.1												58	58	77	38
38/ 37	.4	1.3	1.6	1.6	1.9	.9												61	61	53	44
36/ 35	.9	1.0	.9	.6	.8	.5												37	37	67	52
34/ 33	1.0	1.1	.6	.8	1.1	.1												38	38	62	48
32/ 31	.4	.9	.8	.5	.4													23	23	50	72
30/ 29	.1	.1	.6	.6														12	12	45	48
28/ 27		.4	.3	.8														11	11	30	39
26/ 25		.8	.4	.1														10	10	19	60
24/ 23																				18	38
22/ 21																				6	43
20/ 19																					40

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
APR — MONTH

PAGE 2 — 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
12/ 17																					40
10/ 15																					12
8/ 13																					26
6/ 11																					21
4/ 9																					16
2/ 7																					8
0/ 5																					7
-2/ 3																					12
-4/ 1																					1
-6/ -3																					1
TOTAL	4.3	14.7	10.7	15.2	14.4	15.1	7.6	7.6	5.4	3.1	1.5	.5	.1					794	794	794	794

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2701756	42732	53.8	22.515	794							
Dry Bulb	1907930	37782	47.6	11.783	794		6.3	6.1	2.7	1.5		90
Wet Bulb	1333200	31742	40.0	9.000	794		19.0	.1				90
Dew Point	797262	23348	29.4	11.815	794	.1	54.9					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

126390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

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

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83												.1						1	1		
82/ 81										.1								1	1		
80/ 79									.1			.1						2	2		
78/ 77								.1	.1	.1								3	3		
76/ 75							.1	.1	.3	.1								5	5		
74/ 73							.1			.1								2	2		
72/ 71							.1			.1								2	2		
70/ 69					.1			.3	.1	.1								5	5		
68/ 67						.3		.3		.3								6	6		
66/ 65						.3	.4				.1							6	6		
64/ 63		.4			.1	.1	.3	.3	.3	.1								12	12	10	1
62/ 61		.4		.1	.1	.1	.4	.1	.1	.1								12	12	3	2
60/ 59		.1	.1	.1	.1		.4	.1	.3									10	10	9	
58/ 57		.3	.1		.1	.1	.6	.4										13	13	3	5
56/ 55	.1	.3	.3			.4	.6	.5	.4									20	20	16	5
54/ 53	.1	.1	.8	.1	.3	.6	1.1	.5										29	29	9	13
52/ 51		.8	.6	.3	1.4	1.1	1.6	.5										50	50	12	4
50/ 49	.1	1.0	.6	1.0	1.6	1.4	.3											48	48	22	8
48/ 47	.3	.9	.8	1.5	1.6	.9	.8	.1										54	54	21	17
46/ 45	.3	.9	1.4	1.3	1.3	1.0	.1	.1										50	50	37	23
44/ 43	.3	1.6	2.3	2.4	1.5	.8		.1										71	71	54	11
42/ 41	.5	1.3	1.4	1.8	1.5	.8	.1											58	58	78	31
40/ 39	.4	1.0	1.4	.8	1.1	.8												43	43	85	29
38/ 37	.6	2.4	1.1	1.4	1.0	.5	.1											57	57	67	41
36/ 35	1.0	2.5	3.0	1.4	.9	.5												74	74	77	45
34/ 33	1.8	1.9	1.6	1.0	.8	.1												57	57	70	67
32/ 31	.8	.5	2.4	1.3	.8													45	45	66	93
30/ 29		.4	.8	1.3														19	19	38	90
28/ 27		.3	.6	1.4														20	20	37	48
26/ 25	.1	.3	.6	.1														9	9	38	51
24/ 23			.5	.1														5	5	22	30
22/ 21			.4	.1														4	4	10	41
20/ 19																				7	47
18/ 17																				2	32

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 2 1800-2000 (HOURS L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
1[illegible] / 15																					23
1[illegible] / 13																					17
1[illegible] / 11																					18
1[illegible] / 9																					14
[illegible] / 7																					16
[illegible] / 5																					9
[illegible] / 3																					8
[illegible] / 1																					5
[illegible] / -3																					1
TOTAL	6.3	17.4	20.8	17.4	14.4	9.7	7.2	3.5	1.6	1.3	.1	.3						793	793		793
																		793		793	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5282230	48058	60.6	21.608	793							
Dry Bulb	1587808	34482	43.5	10.567	793		11.6	5.1	1.6	.3		90
Wet Bulb	1187972	29906	37.7	8.716	793		25.0					90
Dew Point	776908	23080	29.1	11.524	793	.1	55.7					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

STATION	STATION NAME	YEARS	MONTH
726340	PHELPS-COLLINS/ALPENA MI	73-81	APR

PAGE 1 — HOURS (L. S. T.): 2100-2500

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73								.1	.1									2	2		
72/ 71						.4	.1	.1	.3									7	7		
68/ 67						.1		.3										3	3		
66/ 65			.1	.5	.1			.1										5	5		
64/ 63				.5	.5		.1											7	7		
62/ 61	.4	.1		.1			.3		.1									8	8	7	3
60/ 59		.1			.1	.5		.1										7	7	7	1
58/ 57		.5		.1				.3										7	7	6	2
56/ 55		.5				.1												5	5	10	5
54/ 53	.1	.5				.4	.1											7	7	8	9
52/ 51	.5	.5	.5		.5	.5												12	12	9	12
50/ 49	.4	.8	.6	.3	.6	.1												22	22	13	6
48/ 47	.1	1.8	.3	.8	1.1	.3												34	34	17	14
46/ 45	.3	1.5	1.0	.6	.9	.5												38	38	21	14
44/ 43	.1	1.4	1.6	2.4	.4	.5												51	51	21	15
42/ 41	1.0	2.5	2.5	1.9	1.0	.1												72	72	49	29
40/ 39	.9	2.3	3.3	1.8	.5	.1												70	70	54	29
38/ 37		4.2	1.8	.9	.8	.1												61	61	76	25
36/ 35	1.4	3.8	3.3	1.0	.1													76	76	93	47
34/ 33	2.0	4.4	2.5	1.4														82	82	84	77
32/ 31	1.4	3.9	3.8	1.3														82	82	83	93
30/ 29	.1	1.6	3.3	.8	.3													48	48	63	71
28/ 27	.1	.6	2.4	.9														32	32	46	48
26/ 25	.5	.5	2.3	.1														27	27	51	46
24/ 23		.4	.9	.1														11	11	28	32
22/ 21	.1	.5	.8															11	11	29	36
20/ 19	.1	.1	.5															6	6	9	53
18/ 17		.1																1	1	7	38
16/ 15		.1																1	1	5	27
14/ 13																				1	12
12/ 11																					19
10/ 9																					14
8/ 7																					13
6/ 5																					2

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 92 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 2 2100-2300 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
47	5																				2
46	1																				1
TOTAL	9.3	32.5	31.1	14.8	6.7	3.5	.6	1.0	.5									795	795		795
																		795		795	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4311077	56899	71.6	17.557	795							
Dry Bulb	1247521	30565	38.4	9.569	795		24.8	1.4	.2			90
Wet Bulb	1038648	27786	35.0	8.657	795		36.2					90
Dew Point	772688	23290	29.3	10.670	795		57.4					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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) APR (MONTH)

PAGE 1 ALL (HOURS L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
86/ 85											.0	.0	.0					3	3		
84/ 83									.0	.0	.1	.0						7	7		
82/ 81								.0	.0	.0	.0	.0						9	9		
80/ 79								.0	.1	.0	.0	.0						11	11		
78/ 77							.0	.0	.0	.0	.1	.0						14	14		
76/ 75							.1	.1	.0	.1	.0	.0						24	24		
74/ 73						.0	.1	.0	.1	.1	.0							21	21		
72/ 71					.0	.1	.0	.0	.1	.1	.0							28	28		
70/ 69				.0	.1	.1	.1	.1	.1	.1	.0							31	31		
68/ 67				.1	.1	.2	.0	.1	.0	.1	.0							44	44	4	
66/ 65		.0	.1	.2	.2	.1	.1	.2	.2	.0	.0							71	71	10	
64/ 63		.1	.1	.1	.2	.2	.1	.2	.2	.2								91	91	45	3
62/ 61	.1	.3	.0	.1	.1	.1	.2	.2	.2	.1								91	91	45	14
60/ 59		.2	.2	.1	.1	.3	.3	.3	.2	.0								104	104	60	22
58/ 57	.0	.3	.2	.1	.1	.5	.3	.3	.2									124	124	65	49
56/ 55	.0	.2	.2	.2	.2	.3	.5	.4	.2									136	136	85	51
54/ 53	.0	.4	.2	.3	.4	.5	.8	.5	.1									201	201	87	66
52/ 51	.1	.5	.2	.3	.7	.8	.6	.2										220	220	98	64
50/ 49	.2	.6	.4	.6	.7	.7	.2	.1										225	225	145	74
48/ 47	.2	1.0	.5	.7	1.2	.8	.2	.0										295	295	183	88
46/ 45	.2	1.2	.9	1.1	.8	.6	.1	.0										308	308	253	127
44/ 43	.2	1.5	1.5	1.5	.9	.6	.0	.0										401	401	342	128
42/ 41	.3	1.6	1.7	2.0	.9	.5	.1											445	445	429	208
40/ 39	1.1	2.4	1.9	1.4	.7	.4	.0											506	507	509	254
38/ 37	.4	2.3	1.5	1.1	.7	.2	.0											395	395	544	293
36/ 35	.9	2.5	1.9	.8	.5	.2												436	436	547	336
34/ 33	2.0	3.6	1.7	1.0	.5	.0												565	567	598	515
32/ 31	1.2	3.3	2.3	.9	.2													502	503	543	676
30/ 29	.5	1.9	2.1	.7	.1													331	331	455	459
28/ 27	.4	1.2	1.2	.6														221	221	387	440
26/ 25	.4	1.2	1.2	.1														185	185	335	475
24/ 23	.1	.7	.6	.1														99	100	216	275
22/ 21	.2	.6	.5	.0														87	87	151	296
20/ 19	.2	.5	.2															56	57	95	394

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
7 039	PHELPS-COLLINS/ALPENA MI	73-81	APR

PAGE 2

HOURS (L. S. T.): ALL

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
1 / 17	.1	.1	.1															19	19	54	253
16 / 15	.1	.2	.1															22	22	30	167
14 / 13	.0	.0	.0															7	7	11	182
1. / 11																				7	151
1. / 9																				2	101
. / 7																					81
. / 5																					34
4 / 3																					33
. / 1																					15
. / -1																					3
-. / -3																					4
-4 / -5																					1
-. / -7																					3
TOTAL	8.9	28.8	21.5	14.1	9.5	7.1	4.1	2.9	1.7	.9	.4	.1	.0						6341		6335
																		6335		6335	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	30897075	421963	66.6	20.991	6335							
Dry Bulb	11510521	259815	41.0	11.679	6341		174.0	21.8	10.1	3.0		720
Wet Bulb	8908798	229902	36.3	9.449	6335		259.8	.5				720
Dew Point	6194905	185295	29.2	11.062	6335	1.3	459.5					720

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

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PAGE 1 — HOURS (L. S. T.) 0000-0200

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
80/ 79									.1									1	1		
78/ 77									.2									2	2		
76/ 75							.2											2	2		
74/ 73						.1												1	1		
70/ 69				.1	.1													2	2		
68/ 67			.1	.1	.4													5	5		
66/ 65		.1	.4	.5		.1												9	9		
64/ 63		.4	.4	.1				.1										8	8	7	
62/ 61		1.5	.5	.5	.1	.4												24	24	20	6
60/ 59		1.6	1.2	.5	.4	.2	.1											33	33	16	10
58/ 57		1.6	1.4	.5	[illegible]	.2	[illegible]											24	24	22	26
56/ 55		1.7	1.6	.2	.2	.2	.2											35	35	26	21
54/ 53	.4	3.1	1.0	.5	.4	.4	.5	.2										52	52	32	33
52/ 51	.1	3.2	1.5	.4	.1	1.0												51	51	40	29
50/ 49	.5	1.6	1.7		.5	.6												40	40	54	49
48/ 47	.5	3.7	1.6	1.0	.6													60	60	38	34
46/ 45	.9	4.7	1.6	1.5	.5													74	74	65	43
44/ 43	.4	3.6	4.7	1.1														79	79	55	42
42/ 41		3.2	2.6	1.0	.2													57	57	77	50
40/ 39	.5	2.6	2.5	1.1														54	54	83	41
38/ 37	.6	2.1	2.0	.4														41	41	53	55
36/ 35	.7	3.1	2.8	.1														55	55	61	60
34/ 33	1.1	2.7	1.6	.2														46	46	57	60
32/ 31	.4	2.6	1.0	.6														37	37	49	73
30/ 29	.1	1.0	.6															14	14	27	57
28/ 27		.9																7	7	19	45
26/ 25																				12	32
24/ 23																					13
22/ 21																					14
20/ 19																					7
18/ 17																					3
16/ 15																					6
TOTAL	6.2	44.8	29.6	10.5	3.8	3.3	1.1	.4	.4									813	813	813	813

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5153815	63711	78.4	14.085	813							
Dry Bulb	1769095	37147	45.7	9.483	813		6.6	1.5	.6			93
Wet Bulb	1540607	34651	42.6	8.860	813		12.2					93
Dew Point	1314993	31651	38.9	10.097	813		26.6					93

USAFETAC FORM 0-26-5 (OL A) 3/84 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 1 0300-0500 (HOURS L.S.T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B.-W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75								.1										1	1		
74/ 73							.1											1	1		
72/ 71					.1													1	1		
68/ 65			.1	.1														2	2		
64/ 63		.6	.4	.2														10	10	4	
62/ 61		.6	.6	.5	.1	.1	.4											19	19	5	3
61/ 59		1.7	.6	.4	.2		.1											25	25	11	4
59/ 57		1.8	.6	.5		.1												25	25	24	16
57/ 55		1.6	1.1	.2	.2	.2												28	28	25	30
54/ 53		2.7	1.3	.6		.4												41	41	25	15
52/ 51	.6	2.8	.9	.4	.4	.6												46	47	43	37
50/ 49	.4	2.8	2.1	.1	.6	.1												50	50	45	31
48/ 47	1.2	2.9	1.2	.9	.4													54	54	53	52
46/ 45	1.0	2.8	1.0	.9														46	46	48	45
44/ 43	.2	4.2	2.5	.9														63	63	50	33
42/ 41	.5	6.3	3.2	.7														87	87	63	50
40/ 39	.1	4.7	2.1	.4														59	59	87	40
38/ 37	1.1	3.9	2.0	.2														59	59	77	80
36/ 35	.2	3.7	1.0	.2														42	42	52	47
34/ 33	1.5	3.2	1.3	.1														50	50	60	68
32/ 31	1.0	3.9	1.0	.5														63	63	47	84
30/ 29	.7	2.3	.4															28	28	52	68
28/ 27		1.5																12	12	28	33
26/ 25		.2																2	2	14	39
24/ 23		.1																1	1	2	17
22/ 21																					9
20/ 19																					8
18/ 17																					4
16/ 15																					2
TOTAL	8.6	55.8	23.3	7.9	2.1	1.6	.6	.1											816		815
																		815		815	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5586779	66747	81.9	12.158	815							
Dry Bulb	1626010	35670	43.7	9.185	816		12.1	.3	.2			93
Wet Bulb	1449413	33639	41.3	8.666	815		16.3					93
Dew Point	1267575	31193	38.3	9.516	815		30.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 1 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
74/ 73						.2												2	2		
72/ 71				.1	.1	.1												3	3		
70/ 69			.1	.4	.4	.1	.2											10	10		
68/ 67		.1	.1	.1	.1	.1		.1										6	6		
66/ 65		.6	.5	.6	.1		.2	.1										18	18	5	
64/ 63		.9	.4	.5	.2	.4	.1											20	20	13	6
62/ 61	.1	.9	.6	.9	.5	.1	.2	.1										28	28	17	9
60/ 59		2.1	.7	.9	.1	.6	.2											38	38	26	15
58/ 57	.1	.6	1.0	.9	.1	.4	.6											35	35	26	25
56/ 55	.1	1.5	1.2	.6	.1	.4	.1											37	37	25	23
54/ 53	.1	2.8	1.6	1.1	.6	.5	.1											56	56	40	22
52/ 51	.5	1.7	1.3	1.3	.7	.6												51	51	42	36
50/ 49		3.1	3.7	1.2	.6	.5												74	74	53	47
48/ 47	1.1	2.8	1.7	1.6	1.3													70	71	73	43
46/ 45	.7	2.1	2.7	1.6	.4													61	61	71	51
44/ 43	.1	3.5	3.1	1.3	.1													66	66	58	40
42/ 41	.2	2.6	2.4	1.3	.4													57	57	85	66
40/ 39	.5	2.3	2.9	.5														51	51	69	65
38/ 37	.5	2.6	1.3	.5														40	40	56	63
36/ 35	.7	2.4	1.2	.1														37	37	56	58
34/ 33	.6	1.7	.5	.1														24	24	45	50
32/ 31	.4	2.1	.7															26	26	29	17
30/ 29	.1	.5	.1															6	6	20	58
28/ 27	.1																	1	1	7	30
26/ 25																				1	15
24/ 23																					9
22/ 21																					3
20/ 19																					5
18/ 15																					1
TOTAL	5.9	36.8	28.0	15.7	7.2	4.0	2.0	.4											818		817
																		817		817	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4968728	62568	76.6	14.732	817							
Dry Bulb	1958187	39291	48.0	9.317	818		3.8	2.4	.2			93
Wet Bulb	1676388	36350	44.5	8.511	817		6.5					93
Dew Point	1416272	33122	40.5	9.489	817		22.5					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PAGE 1 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
86/ 85									.1	.1								2	2		
84/ 83								.4	.2			.1						6	6		
82/ 81							.2	.4	.2	.1		.1	.1					10	10		
80/ 79						.2	.6	.2	.1	.1	.1							12	12		
78/ 77						.4	.5	.4	.4	.6	.1							19	19		
76/ 75					.4	1.3	.2	.2	.4	.1	.2							24	24		
74/ 73			.1	.2	.5	.5	.4	.4	.2	.2	.1							22	22		
72/ 71				.2	.4	.1	.4	.2	.2	.1	.2	.1						17	17	1	
70/ 69			.2	.1	.4	.2	.9	.5	1.0	.2	.1							30	30	12	
68/ 67		.1	.4		.6	.4	1.0	1.0	.1	.7								35	35	20	1
66/ 65		.2	.1	.9	.9	.6	.1	1.0	.9	.4								41	41	27	5
64/ 63		.4	.1	1.3	.5	.7	1.0	1.5	.7									51	51	19	12
62/ 61		.4	.2	1.0	1.2	.9	1.2	.7	.1									47	47	25	22
60/ 59		.6	.7	.7	1.1	.7	.2	.7	.1									41	41	39	24
58/ 57		.5	.9	1.0	1.0	1.3	.9	.5										49	49	41	26
56/ 55	.1	.5	.9	1.0	1.6	1.5	1.3	.5										60	60	45	20
54/ 53		.9	1.3	.9	1.0	1.1	.7											48	48	53	32
52/ 51		1.2	1.2	.7	1.8	1.0	1.0											57	57	69	36
50/ 49	.1	1.2	.9	2.3	1.5	1.0	.1											58	58	70	38
48/ 47	.1	1.3	.9	1.1	1.7	.4	.2											47	47	71	61
46/ 45	.4	1.2	.7	.9	.7	.7												38	38	62	51
44/ 43	.1	.9	.4	.9	1.0	.4												29	29	78	35
42/ 41	.1	1.1	.7	1.7	.6	.1												36	36	49	46
40/ 39		.7	.9	.9	.2													22	22	45	61
38/ 37		.6	.5															9	9	32	52
36/ 35	.1	.1	.1	.1														4	4	34	59
34/ 33		.1																1	1	20	52
32/ 31		.4																3	3	5	53
30/ 29																				1	41
28/ 27																					30
26/ 25																					29
24/ 23																					9
22/ 21																					7
20/ 19																					12

WET BULB TEMPERATURE DEPRESSION (F)

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.							
Dry Bulb							
Wet Bulb							
Dew Point							

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 2 0900-1100 (HOURS L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
1/ 1/																					2
1/ 15																					2
TOTAL	1.1	12.5	11.2	15.9	17.0	13.6	11.0	8.6	4.9	2.8	1.0	.4	.1					818	818	818	818

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3061593	47681	58.3	18.784	818							
Dry Bulb	2798487	46969	57.4	11.149	818		.3	20.1	10.8	2.6		93
Wet Bulb	2066020	40456	49.5	8.932	818		.7	3.8				93
Dew Point	1503398	33936	41.5	10.812	818		21.0	.1				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

72659 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
[illegible] / 91											.1	.1						2	2		
[illegible] / 89										.1	.1	.1						3	3		
[illegible] / 87										.1	.2		.4					6	6		
[illegible] / 85									.2	.4	.2	.1	.2		.1			11	11		
[illegible] / 83								.5	.9	.6	.6	.1	.2					24	24		
[illegible] / 81						.1	.4	.5	.9	.5	.2		.1					22	22		
[illegible] / 79					.1	.5	.5	.2	.4	.6	.4	.1	.1					24	24		
7[illegible] / 77						.1	.9	.1	.2	.2		.4						16	16		
[illegible] / 75				.1	.1	.4	.2	.2	1.0	.4	.2	.4	.1					26	26		
[illegible] / 73				.1	.1	.5		.9	.6	.6	.4	.6						31	31		
[illegible] / 71				.6	.2	.4	1.5	.4	.6	.4	.1	.4						37	37	5	
7[illegible] / 69			.1	.1	.2	.4	.9	.2	1.0	1.0	.4							35	35	23	
6[illegible] / 67			.5		.5	.7	.6	.5	.7	.9	.1							37	37	25	3
[illegible] / 65			.4	.1	.5	.2	.6	.9	1.6	.6								40	40	31	3
[illegible] / 63		.2	.5	.7	.5	1.1	1.1	1.2	.6	.1								50	50	33	15
[illegible] / 61			.5	.5	.7	1.1	1.0	.9	.6									43	44	22	18
[illegible] / 59			.7	1.5	.6	.9	1.3	1.5	.6									58	58	53	28
5[illegible] / 57		.2	.5	1.0	.6	.6	1.8	1.6										52	52	34	26
5[illegible] / 55		.1	1.0	.6	1.5	1.6	1.2	.6										54	54	49	21
[illegible] / 53		1.5	.5	.5	1.3	.6	.7	.4										45	45	68	26
[illegible] / 51		.4	.2	1.1	1.2	1.1	.9	.1	.1									42	42	74	42
5[illegible] / 49	.2	.6	.5	.4	1.1	.5	.6	.1										33	33	68	57
4[illegible] / 47	.2	.6	.6	.5	2.0	.6	.1	.1										39	39	55	51
4[illegible] / 45		.7	.4	.7	1.0	.1	.1											25	26	87	37
44 / 43	.1	.7	.4	.9	1.0	.5	.4											32	32	49	28
42 / 41		.6	.2	.1														8	8	37	37
4[illegible] / 39	.5	.5	.2	.1														11	11	47	66
3[illegible] / 37		.5	.2															6	6	26	51
3[illegible] / 35		.2																2	2	18	56
34 / 33		.4																3	3	11	40
32 / 31		.1																1	1	3	67
3[illegible] / 29																					55
2[illegible] / 27																					31
2[illegible] / 25																					25

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639U (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 2 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
24/ 23																					10
22/ 21																					9
20/ 19																					5
18/ 17																					3
16/ 15																					3
14/ 13																					4
12/ 4																					1
TOTAL	1.1	7.5	7.5	9.7	13.3	12.0	14.8	10.9	10.0	6.5	3.2	2.3	1.2		.1				820		818
																		818		818	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	2423431	41593	50.8	19.434	818							
Dry Bulb	3226749	50473	61.6	12.105	820		.1	31.1	18.7	9.5		93
Wet Bulb	2215930	41928	51.3	9.045	818		.3	6.0				93
Dew Point	1497119	33767	41.3	11.240	818		24.2	.3				93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 1 — 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93													.1					1	1		
92/ 91												.2						2	2		
88/ 87											.1	.1						2	2		
86/ 85										.9	.1							8	8		
84/ 83							.1		1.1	1.0		.1						19	19		
82/ 81						.2			.2	.6	.4	.2	.1					15	15		
80/ 79						.1	.4	.5	.2	.4	.5	.1	.4					21	21		
78/ 77					.1	.4	.7	.5	.2	.6	.1	.4	.1					26	26		
76/ 75				.1	.4	.7	.1	.1	.4	.5	.1							20	20		
74/ 73			.1		.5	.2		.5	.5	.6	.1	.2						23	23		
72/ 71				.2	.7	.1	1.0	1.2	1.5	.5	.1	.1						45	45	3	
70/ 69			.2	.6		.7	.5	.7	.7	.9	.4							39	39	8	
68/ 67			.4		.4	.5	.7	.5	.4	1.0	.1							32	32	34	2
66/ 65		.6	.6	.4	1.1	.1	1.0	1.0	1.1	.6	.1							54	54	[illegible]	3
64/ 63		.1	.5	.2	.7	.4	.9	1.5	1.2	.6								50	50	33	10
62/ 61		.4	.1	.1	1.0	.6	1.7	1.6	1.3									56	56	21	24
60/ 59		.1	.2	.9	.5	1.3	1.6	1.5	1.2									60	60	44	27
58/ 57		.1	.7	1.1	.7	1.7	1.5	.1										49	49	40	30
56/ 55	.1	.2	1.0	.5	.6	1.3	1.7	.4										48	48	48	20
54/ 53	.1	1.0	.6	.6	.6	.6	1.0	.4	.2									42	42	58	22
52/ 51	.2	.7	.7	.6	1.7	.6	1.0	.1	.1									48	48	63	39
50/ 49	.1	.5	1.5	.4	1.0	1.5	.4	.4										45	45	81	47
48/ 47	.2	1.0	.6	.5	.7	1.1												34	34	87	48
46/ 45	.1	1.0	.2	.2	1.5	.5		.2										31	31	77	45
44/ 43	.1	.2		.4	.9	.2	.1											16	16	49	37
42/ 41		.6	.1	.5	.2													12	12	36	53
40/ 39	.6	.2	.2															9	9	40	43
38/ 37	.2	.4	.1															6	6	32	57
36/ 35	.1	.2																3	3	21	54
34/ 33	.2	.2																4	4	9	47
32/ 31																				2	52
30/ 29																					47
28/ 27																					32
26/ 25																					34

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 2
1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
24/ 23																					21
22/ 21																					12
20/ 19																					4
18/ 17																					1
16/ 15																					3
12/ 11																					1
1 / 9																					2
5/ 7																					3
TOTAL	2.3	7.7	7.9	7.3	13.3	13.0	14.3	11.1	10.5	8.0	2.2	1.6	.7					820	820	820	820

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2408816	41880	51.1	20.069	820							
Dry Bulb	5168064	50094	61.1	11.473	820			28.7	15.5	6.8	.1	93
Wet Bulb	2193171	41793	51.0	8.778	820		.2	5.1				93
Dew Point	1479730	33560	40.9	11.389	820		24.0	.2				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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 1 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
WET BULB TEMPERATURE DEPRESSION (F)																					
84/ 83									.1	.5								5	5		
82/ 81								.1		.4	.1							5	5		
80/ 79							.1	.4	.7				.1					11	11		
78/ 77					.1	.1	.5	.4	.4	.4	.1	.1						17	17		
76/ 75					.2	.4	.1	.5	.5	.1	.1							16	16		
74/ 73				.1	.2	.5	.4	.2		.4	.2							17	18		
72/ 71			.4	.2	.4	.2	.4	.4	.1	.1								18	18		
70/ 69				.4	.4	.5	.2	.6	.7	.2								25	25	2	
68/ 67		.1	.5	.5	.4	.4	.5	.8	.2	.4								31	31	13	
66/ 65		.6	.4	.1	.5	.5	.7	.4	.1	.2								29	29	22	6
64/ 63		.8		.4	.6	.6	.6	.6	1.0	.2								40	40	35	6
62/ 61		.8	.2	.5	1.1	1.1	.6	.1	.8	.2								46	46	26	16
60/ 59		.5	.2	1.3	1.0	1.6	1.6	1.0	.6									64	64	27	31
58/ 57		1.2	.5	1.3	.8	1.5	1.5	1.3	.1									68	68	33	16
56/ 55		.8	.6	.6	1.7	1.8	1.7	.2										62	62	32	29
54/ 53	.4	1.3	1.0	1.2	.8	1.3	1.0	.1										59	59	61	26
52/ 51		1.6	1.1	1.2	2.2	1.6	.7											69	69	59	33
50/ 49		1.8	.8	1.0	1.5	1.0		.4										53	53	64	40
48/ 47	.1	1.7	.5	1.5	1.2	1.1		.1										51	51	83	53
46/ 45		1.5	.4	.8	1.8	.4	.1											41	41	80	40
44/ 43		1.2	.4	.8	1.1	.1	.1											31	31	88	46
42/ 41		.2	.4	.8	1.2	.1	.1											24	24	54	55
40/ 39	.4		.5	1.0	.2													17	17	35	53
38/ 37	.7	.2	.5	.1	.2													15	15	41	49
36/ 35	.1	.6	.1															7	7	28	57
34/ 33	.2																	2	2	28	42
32/ 31	.1																	1	1	6	51
30/ 29	....																			1	42
28/ 27																					43
26/ 25																					44
24/ 23																					17
22/ 21																					13
20/ 19																					4
18/ 17																					4

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 2 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
14/ 13																					1
12/ 11																					4
10/ 9																					2
8/ 7																					1
TOTAL	2.1	15.2	8.4	14.0	17.1	14.7	10.9	7.6	5.5	3.2	.6	.1	.1					824	825	824	824

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3092041	47725	57.9	19.960	824							
Dry Bulb	2725337	46643	56.5	10.351	825		.1	16.5	8.1	1.6		93
Wet Bulb	2011815	40101	48.7	8.556	824		.8	1.7				93
Dew Point	1445288	33236	40.3	11.172	824		25.5					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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) MAY (MONTH)

PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
80/ 79										.1								1	1		
78/ 77								.2		....								2	2		
74/ 73							.4											3	3		
72/ 71				.1	.2	.1	.2											6	6		
70/ 69			.2	.1	.4	.2	.2	.1										11	11		
68/ 67		.2	.2	.2	.5		.2		.1									13	13		
66/ 65		.2	.9	.6	.4		.2		.1									20	20	5	1
64/ 63		1.3	.5	.4	.2		.4	.1	....									24	24	14	5
62/ 61		.9	.1	.4	.4	.4			.1									18	18	32	12
60/ 59		1.1	1.0	1.1	.2	.4												31	31	18	13
58/ 57		1.2	1.0	.6	.4	.2	.4	.2										33	33	21	26
56/ 55	.2	1.6	1.5	1.0	.6	.5	.5											48	48	31	23
54/ 53	.2	2.7	1.1	.9	1.0	.6	.5	.1										58	58	45	34
52/ 51	.1	3.1	3.2	1.2	.5	.9	.4											76	76	42	28
50/ 49	.2	2.2	2.3	1.7	1.0	.5												65	65	58	50
48/ 47	.6	3.2	1.3	2.7	.7	.2												72	72	70	50
46/ 45	.2	2.7	2.8	1.8	.6	.1												68	68	65	47
44/ 43		2.2	2.9	2.5	.6													66	66	69	54
42/ 41	.1	1.2	2.4	2.2	.5													53	53	79	40
40/ 39	.4	1.1	1.8	1.8	.5	.1												47	47	66	51
38/ 37	.7	1.0	2.6	1.0	.2													45	45	52	49
36/ 35	.1	1.5	2.0	.2	.1													32	32	54	71
34/ 33	.1	.7	1.1	.1														17	17	51	34
32/ 31	.2		.2	.1														5	5	29	68
30/ 29	....	.2	.2	....														4	4	9	41
28/ 27																				6	54
26/ 25																				2	29
24/ 23																					13
22/ 21																					10
20/ 19																					7
18/ 17																					2
16/ 15																					3
14/ 13																					3

Element (X)	$\Sigma x'$	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												

USAFETAC FORM AW 94 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639U — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 2 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	3.4	28.4	29.5	20.7	9.0	4.3	3.4	.9	.4	.1								818	818	818	818

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	4507084	59274	72.5	16.147	818							
Dry Bulb	2046440	40226	49.2	9.142	818		1.0	4.1	.7			93
Wet Bulb	1712188	36758	44.9	8.599	818		5.2					93
Dew Point	1402296	32780	40.1	10.419	818		26.1					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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
MAY — MONTH

PAGE 1

ALL — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93													.0					1	1		
92/ 91											.0	.0						4	4		
90/ 89										.0	.0	.0						3	3		
88/ 87										.0	.0	.0	.0					8	8		
86/ 85									.0	.2	.0	.0	.0		.0			21	21		
84/ 83							.0	.1	.3	.3	.1	.0	.0					54	54		
82/ 81						.0	.1	.1	.2	.2	.1	.0	.0					52	52		
80/ 79					.0	.1	.2	.2	.2	.2	.1	.0	.1					70	70		
78/ 77					.0	.1	.3	.2	.2	.2	.0	.1	.0					82	82		
76/ 75				.0	.1	.4	.1	.2	.3	.1	.1	.0	.0					87	87		
74/ 73			.0	.1	.2	.2	.2	.2	.2	.2	.1	.1						101	102		
72/ 71			.0	.2	.3	.2	.4	.3	.3	.1	.1	.1						128	128	9	
70/ 69			.1	.2	.2	.3	.4	.3	.4	.3	.1							152	152	45	
68/ 67		.1	.3	.1	.4	.3	.4	.4	.2	.4	.0							159	159	92	6
66/ 65		.3	.4	.4	.4	.2	.4	.4	.5	.2	.0							215	215	124	18
64/ 63		.6	.3	.5	.4	.4	.5	.6	.4	.1								253	253	158	54
62/ 61	.0	.7	.4	.5	.6	.6	.6	.4	.4	.0								281	282	168	110
60/ 59		1.0	.7	.9	.5	.7	.7	.6	.3									350	350	234	152
58/ 57	.0	.9	.7	.9	.6	.8	.8	.5	.0									335	335	241	191
56/ 55	.1	1.0	1.1	.8	.9	.9	.9	.2										372	372	281	187
54/ 53	.2	2.0	1.1	.8	.7	.7	.6	.2	.0									401	401	388	210
52/ 51	.2	1.8	1.3	.9	1.1	.9	.5	.0	.0									440	441	432	280
50/ 49	.2	1.7	1.7	.9	1.0	.7	.1	.1										418	418	493	359
48/ 47	.5	2.2	1.1	1.2	1.1	.4	.0	.0										427	428	530	392
46/ 45	.4	2.1	1.2	1.1	.8	.2	.0	.0										384	385	555	359
44/ 43	.1	2.1	1.8	1.1	.6	.2	.1											382	382	496	315
42/ 41	.1	2.0	1.5	1.1	.4	.0	.0											334	334	480	397
40/ 39	.4	1.5	1.4	.7	.1	.0												270	270	472	420
38/ 37	.5	1.4	1.1	.3	.1													221	221	369	460
36/ 35	.3	1.5	.9	.1	.0													182	182	324	462
34/ 33	.5	1.1	.6	.1														147	147	281	393
32/ 31	.3	1.3	.4	.2														136	136	170	525
30/ 29	.1	.5	.2															52	52	110	409
28/ 27	.0	.3																20	20	60	298

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	MAY

PAGE 2 — HOURS (L. S. T.): ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
26/ 25		.0																2	2	29	247
24/ 23		.0																1	1	2	109
22/ 21																					77
20/ 19																					52
18/ 17																					19
16/ 15																					14
14/ 13																					10
12/ 11																					9
10/ 9																					5
8/ 7																					4
TOTAL	3.6	26.0	18.2	12.7	10.5	8.3	7.3	5.0	4.0	2.6	.9	.6	.3		.0			6548			6543
																		6543		6543	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	31268293	431179	65.9	20.886	6543							
Dry Bulb	19320369	346513	52.9	12.255	6548		24.0	104.9	55.0	20.6	.1	744
Wet Bulb	14865532	305674	46.7	9.457	6543		42.2	16.6				744
Dew Point	11524671	263245	40.2	10.589	6543		202.2	.7				744

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75					.1													1	1		
74/ 73				.3			.3											4	4		
72/ 71				.4	.4	.5												10	10		
70/ 69			.5	.6	.3	.1	.5											16	16		
68/ 67	.1	.4	2.0	.5	.3		.4											29	29	7	2
66/ 65		1.4	1.9	.8	.1	.5	.1											36	36	12	6
64/ 63		2.4	2.1	.9	.1													44	44	40	18
62/ 61	.4	2.7	.4	.9	.6	.1												40	40	50	34
60/ 59	.4	2.7	2.3	.6	.1													48	48	50	48
58/ 57	.4	4.2	2.5	.4														59	59	41	48
56/ 55	.4	7.6	2.4	1.1	.1													92	92	86	48
54/ 53	.4	5.4	2.0	.9	.1													70	70	81	81
52/ 51	1.3	4.0	2.4	.3														63	63	77	84
50/ 49	.6	4.3	2.7	.3														62	62	62	76
48/ 47	.3	4.9	1.3															51	51	64	55
46/ 45	.3	4.3	.6	.4														44	44	58	68
44/ 43	.4	3.9	1.4	.1														46	46	52	51
42/ 41	.6	4.6	.6															46	46	41	59
40/ 39	.4	1.6	.1															17	17	45	41
38/ 37	.1	.5																5	5	14	33
36/ 35	.1	.4																4	4	6	21
34/ 33	.1	.3																3	3	4	11
32/ 31	.1																	1	1	1	7
TOTAL	6.3	55.0	27.5	8.3	2.5	1.0	1.3												791		791
																		791		791	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5783480	67146	84.9	10.289	791							
Dry Bulb	2355935	42663	53.9	8.335	791		.1	6.8	.6			90
Wet Bulb	2135331	40667	51.4	7.510	791		.1	.8				90
Dew Point	1971531	39021	49.3	7.678	791		.8	.2				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUN — MONTH

PAGE 1 — 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73				.3		.1	.1											4	4		
72/ 71		.1	.1	.4	.3	.4	.1											11	11		
70/ 69	.1		.3	.6	.3	.1												11	11	2	2
68/ 67	.1	.3	1.9	.3	.1	.1												22	22	6	1
66/ 65		.6	1.5	.5		.3												23	23	12	4
64/ 63		3.5	1.3	.5	.3	.1												45	45	32	15
62/ 61	.3	2.4	1.5	.6	.6													44	44	48	33
60/ 59	.5	2.4	1.4	.3		.1												37	37	46	49
58/ 57	.1	2.6	1.5	.8	.4													43	43	33	41
56/ 55	1.0	6.8	2.1	.5	.3													85	85	56	48
54/ 53	1.1	6.2	2.0		.1													75	75	90	66
52/ 51	1.1	4.7	1.5	.3	.1													61	61	80	78
50/ 49	1.1	4.0	1.0	.4														52	52	59	81
48/ 47	.5	7.2	.8	.1														68	68	47	54
46/ 45	.6	4.7	.6															47	47	82	52
44/ 43	.8	4.4	.6	.1														47	47	49	65
42/ 41	.5	3.5	.4															35	35	46	49
40/ 39	2.0	3.2	.3															43	43	43	67
38/ 37	1.1	1.3																19	19	35	32
36/ 35	.8	.8																12	12	17	25
34/ 33	.4	.4																6	6	6	24
32/ 31	.3	.1																3	3	3	6
30/ 29																				1	1
TOTAL	12.5	59.1	18.8	5.5	2.5	1.3	.3												793		793
																		793		793	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	6103166	69158	87.2	9.525	793							
Dry Bulb	2235143	41519	52.4	8.800	793		.3	5.4	.5			90
Wet Bulb	2053562	39854	50.3	7.994	793		.5	.9				90
Dew Point	1919671	38495	48.5	8.024	793		.8	.3				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUN — MONTH

PAGE 1 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible] / 79			.1			.1	.1											3	3		
[illegible] / 77					.1	.3												3	3		
76/ 75		.1		.1	.1	.4	.1											7	7	1	
74/ 73			.1	.9		.8												14	14	1	1
72/ 71		.1	.4	.4	.8	.5	.4											20	20	1	1
[illegible] / 69			1.3	1.0	1.0	.6	.1											32	32	9	1
6 / 67			1.9	1.4	.9	.4												36	36	10	3
66/ 65		1.9	1.8	1.3	1.3	.6												54	54	24	11
64/ 63	.3	2.2	.9	1.3	1.3	.5	.1											54	54	51	24
62/ 61	.3	2.9	2.0	1.1	1.3	.1												61	61	64	45
[illegible] / 59	.5	1.6	2.8	1.4	.1	.1												52	52	60	56
[illegible] / 57	.8	4.3	2.8	1.8	.9	.3												85	85	64	55
5[illegible] / 55	1.3	4.1	2.2	1.4	.6	.3												77	77	88	75
54/ 53	.1	3.7	2.5	1.3	.1													61	61	87	73
52/ 51	.4	2.5	3.2	.6	.4													56	56	63	74
5[illegible] / 49	.9	3.4	1.8	.1	.1													50	50	65	70
4 / 47	.1	3.6	.8	.5	.3													41	42	65	81
4 / 45	.5	1.8	.5	.1														23	23	48	51
4[illegible] / 43	.1	2.4	.5	.1														25	25	29	54
42/ 41	.3	1.5	.4	.1														18	18	25	36
4 / 39	.1	.4	.4															7	7	17	28
3 / 37	.3	.3																4	4	9	21
3 / 35	.1	.3																3	3	3	12
3[illegible] / 33	.1	.1																2	2	3	8
32/ 31																				1	7
3[illegible] / 29																					1
TOTAL	.1	37.2	26.3	15.4	9.3	4.9	.9											788	789	788	788

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature: ≤ 1 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5204462	63238	80.3	12.829	788							
Dry Bulb	2643050	45176	57.3	8.460	789			13.1	3.1	.1		90
Wet Bulb	2316943	42335	53.7	7.350	788		.1	2.5	.2			90
Dew Point	2088007	40119	50.9	7.656	788		.9	.7	.1			90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726347	PHELPS-COLLINS/ALPENA MI	73-81	JUN
STATION	STATION NAME	YEARS	MONTH

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

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
87/87							.1	.1	.1									3	3		
87/85							.1	.5	.5	.4	.1							11	11		
87/83							1.0	.1	.6	.4	.3							19	19		
87/81			.1	.1		.3	.9		1.0	.1								20	20		
87/79			.1			1.1	.6	.8	.6	.1								27	27		
87/77					.9	1.0	.8	1.0	.5		.1							34	34	1	
87/75			.1		1.4	1.0	1.1	1.3	.5	.5								47	47	3	1
87/73				.9	2.0	1.5	1.3	1.3	.3	.1								58	58	4	2
87/71			.3	.6	1.1	1.0	1.4	1.1	.1									45	46	19	
87/69		.1	.5	1.0	1.3	1.9	2.0	.9	.1									62	62	28	3
87/67		.1	1.0	1.3	1.1	1.8	1.9	.8	.1									64	64	50	9
87/65		.5	.9	1.1	2.5	.8	1.1	.9										62	62	57	26
87/63	.1	1.1	1.8	1.9	1.4	1.9	.6											70	70	68	42
87/61		1.4	.8	1.3	1.5	.9	1.0	.1										55	55	67	49
87/59	.1	2.3	.5	1.3	.6	.9	.4											48	48	107	55
87/57	.1	1.6	1.0	1.3	1.3	.4	.3											47	47	82	77
87/55	.1	.8	1.1	1.4	.5	.3												33	33	71	68
87/53		.6	.9	.9	.8	.5												29	29	72	73
87/51	.4	.4	1.0	.6	.4	.3												24	24	47	67
87/49		.5	.8	.4	.4													16	16	41	56
87/47	.1	.6	.1	.1	.1													9	9	30	66
87/45	.3		.1		.1													4	4	22	56
87/43		.1		.3														3	3	10	45
87/41																				7	32
87/39			.3															2	2	1	22
87/37																				3	16
87/35																				2	9
87/33																					8
87/31																					5
87/29																					5
TOTAL	1.3	10.2	11.4	14.4	17.4	15.4	14.6	8.8	4.3	1.6	.5							792	793	792	792

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3279413	49367	62.3	15.991	92							
Dry Bulb	3558545	52619	66.4	9.201	793			44.4	24.9	7.8		90
Wet Bulb	2750958	46166	58.3	7.104	792			11.9	.9			90
Dew Point	2212692	41358	52.2	8.185	792		1.1	1.7	.3			90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590	PHELPS-COLLINS/ALPENA MI	73-81	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 1 — 1200-1400 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
92/ 91									.1	.4	.1	.1						6	6		
90/ 89								.1	.3		.5	.1						6	6		
88/ 87								.1	.8	.9	1.0	.5						26	27		
86/ 85						.1		.8	.8	.6	.9	.4						28	28		
84/ 83							.6	.8	1.0	1.0	1.0							35	35		
82/ 81					.4	.1	1.5	.5	.8	1.1		.1						36	36		
80/ 79						.9	.8	1.0	1.0	1.4	.4							45	45		
78/ 77				.3	.1	2.0	1.0	.9	1.5	.5	.5							50	50	2	
76/ 75				.3	1.0	1.1	1.1	1.9	1.5	.9								62	62	2	
74/ 73				.3	.6	1.5	1.0	2.1	2.1	.8								67	67	15	1
72/ 71				.4	.9	.6	.9	1.8	1.0	.3	.1							47	47	27	4
70/ 69			.5	.5	.8	1.1	1.5	1.8	.5	.5								49	49	43	2
68/ 67			.6	.9	1.4	.9	1.0	1.5	.4									51	51	58	7
66/ 65			.8	1.3	2.3	.5	1.0	.6	.4									54	54	67	31
64/ 63		.8	.8	1.1	.3	1.0	1.0	.6	.5									48	48	72	38
62/ 61		.9	.9	1.0	1.0	1.3	.1	.1										42	42	66	43
60/ 59		1.0	.6	.5	1.5	.1	.4											31	31	97	58
58/ 57	.5	1.4	.4	.9	.8	1.0	.4											40	40	101	64
56/ 55		.9	1.1	.9	.8	.4	.1											33	33	80	75
54/ 53	.3	.5	.1	.1	.1	.4												12	12	82	75
52/ 51			.3	.4		.3												7	7	46	64
50/ 49		.1	.3	.3	.3	.1												8	8	27	60
48/ 47	.4		.4	.5	.1													9	9	22	62
46/ 45			.1															1	1	9	52
44/ 43																				7	53
42/ 41																				7	52
40/ 39																				1	19
38/ 37																					19
36/ 35																					15
34/ 33																					10
32/ 31																					7
30/ 29																					2
TOTAL	.9	5.6	6.6	9.0	12.0	13.5	12.3	14.4	12.4	8.1	4.0	1.3						791	792	791	791

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2554516	42930	54.3	16.860	791							
Dry Bulb	4013796	55834	70.5	9.907	792			57.6	40.9	18.0		90
Wet Bulb	2862055	47259	59.7	6.983	791			16.7	2.2			90
Dew Point	2188064	41078	51.9	8.330	791		1.0	1.6	.1			90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726591 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUN — MONTH

PAGE 1 — 1500-1700 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
91/								.1		.3	.3							5	5		
89/							.1	.3		.4	.1	.1						8	8		
87/									.6	.1	.4	.5						13	13		
85/								.1	.6	.8	1.3	.3						24	24		
83/								1.1	1.0	1.4	.6	.4						36	36		
81/							.5	.8	1.5	1.1	.4							34	34		
79/				.1		1.0	.8	1.1	1.0	.8	1.6	.3						53	53		
77/				.1	.3	.9	1.4	.6	.9	.1	.8							40	40	2	
75/			.1	.1	.9	1.1	.8	.5	.9	.9								42	42	2	
73/			.4	.4	.6	1.5	1.6	.5	2.4	1.1	.3							70	70	6	
71/		.1	.5	.5	.9	.8	1.4	.8	1.0	1.0	.3							57	57	21	3
69/			.3	.5	1.6	1.1	.5	1.4	.1	.1								45	45	33	4
67/		.3	.8	1.0	1.0	1.0	1.0	1.0	.4	.1								52	52	69	7
65/		.5	1.0	1.0	1.9	1.3	1.9	.6	.5	.1								70	70	70	18
63/		.8	.8	.8	.5	1.0	1.6	1.0	.4									52	52	72	41
61/		.8	1.1	.9	1.0	1.1	.9	.1										47	47	67	44
59/		1.5	.8	.9	1.1	1.4	.9	.5										56	56	89	62
57/		1.4	.8	.4	.4	.4	.4	.1										30	30	85	72
55/		1.6	1.1	.3	.8													30	30	73	74
53/		.3	.1	.5	.1	.4												11	11	74	67
51/		.1		.1	.1	.3												5	5	47	59
49/			.4		.4													6	6	36	42
47/	.1		.1															2	2	23	50
45/	.3	.1																3	3	13	59
43/																				6	54
41/																				3	42
39/																					30
37/																					17
35/																					17
33/																					15
31/																					12
29/																					2
TOTAL	.4	7.5	8.2	7.6	11.4	13.3	13.8	10.7	11.4	8.3	5.9	1.5						791	791	791	791

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2600500	43050	54.4	18.131	791							
Dry Bulb	3944127	55357	70.0	9.416	791			54.5	37.0	16.4		90
Wet Bulb	2820275	46931	59.3	6.732	791			15.1	1.1			90
Dew Point	2144498	40610	51.3	8.684	791		1.6	1.6				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUN — MONTH

PAGE 1 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
88/ 87								.1										1	1		
86/ 85								.4	.1		.1	.1						6	6		
84/ 83						.1	.3	.5	.3	.4	.3							14	14		
82/ 81							.3	.4	.5	.4	.3							14	14		
80/ 79						.3	.4	1.0	.6	.5	.3							24	24		
78/ 77					.4	.5	.9	.8	.6	.4	.1							29	29		
76/ 75			.4		.5	1.4	.6	1.0	1.1	.1								41	41		
74/ 73		.1	.3	.4	1.8	1.3	1.0	.5	1.0	.4								53	53	5	
72/ 71		.1	.5	1.0	1.4	.9	1.3	1.3	.5	.1								56	56	8	2
70/ 69		.3	1.0	1.4	1.3	1.1	1.3	.8	.8	.1								63	63	16	4
68/ 67		.3	1.6	1.6	1.6	1.5	1.8	.8	.4									76	76	39	6
66/ 65		.3	.9	1.9	1.3	1.6	.9	.3	.3									58	58	67	17
64/ 63		1.6	1.4	1.8	1.0	1.6	2.0	.8	.1									82	82	74	32
62/ 61		1.0	.8	1.5	1.3	.8	.9	.4										52	52	77	47
60/ 59	.1	1.9	1.3	.9	1.3	1.3	.8											59	59	82	74
58/ 57	.1	1.8	1.0	.8	1.1	1.0	.5	.1										51	51	91	67
56/ 55	.1	1.4	.9	1.0	1.5	.5	.4											46	46	81	65
54/ 53		1.3	.8	1.0	.5	.3												30	30	72	63
52/ 51	.4	.5	.3	.4	.1	.5												17	17	56	66
50/ 49			.4	.1	.4													7	7	45	54
48/ 47			.5	.1	.3													7	7	37	60
46/ 45	.1	.6	.1		.1													8	8	25	62
44/ 43																				12	41
42/ 41				.1														1	1	5	25
40/ 39																				1	42
38/ 37																				2	26
36/ 35																					11
34/ 33																					17
32/ 31																					11
30/ 29																					3
TOTAL	.9	11.1	11.9	14.0	15.7	14.6	13.1	8.9	6.3	2.4	1.0	.1							795		795
																		795		795	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3248436	48858	61.5	17.595	795							
Dry Bulb	3506784	52368	65.9	8.489	795			42.7	20.6	5.5		90
Wet Bulb	2676293	45817	57.6	6.714	795			7.7	.6			90
Dew Point	2139524	40678	51.2	8.557	795		1.6	1.4				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUN (MONTH)

PAGE 1 2100-2300 (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
80/ 79					.1													1	1		
78/ 77					.1													1	1		
76/ 75				.1		.1												2	2		
74/ 73			.1	.4	.6	.4	.1	.1	.1									15	15		
72/ 71			.3	.6	.6	.8	.3	.3	.1									23	23	2	
70/ 69		.3	.9	1.0	.5	.8	.3	.1										30	30	3	
68/ 67		.9	1.5	1.0	.6	.3	.3											36	36	8	7
66/ 65	.1	1.8	2.4	1.6	1.4	.4	.1											62	62	39	10
64/ 63		2.3	1.8	.6	1.3	.3	.1											50	50	39	28
62/ 61	.1	3.0	2.1	1.8	1.1	.1	.1											67	67	60	31
60/ 59		3.5	3.4	1.1	1.4	.1	.1											77	77	66	63
58/ 57	.3	4.3	2.5	1.4	.6													72	72	80	61
56/ 55	.1	3.2	3.4	2.3	.9													78	78	80	61
54/ 53	.4	3.9	2.1	1.4	.1													63	63	78	74
52/ 51	.8	2.9	4.4	.9	.5													75	75	85	79
50/ 49	.4	.9	2.5	1.0	.4													41	41	65	75
48/ 47	.4	2.0	1.6	.5	.4													39	39	59	61
46/ 45		1.6	1.8	.1														28	28	39	67
44/ 43	.1	1.3	.6	.1														17	17	41	45
42/ 41	.1	1.0	.1															10	10	28	47
40/ 39	.1		.4															4	4	15	34
38/ 37		.1																1	1	2	21
36/ 35		.1																1	1	3	14
34/ 33																				1	6
32/ 31																					9
TOTAL	2.9	33.0	32.0	16.0	10.1	3.2	1.4	.5	.3										793		793
																		793		793	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4965219	61973	78.2	12.463	793							
Dry Bulb	2689126	45766	57.7	7.773	793			12.3	2.2	.1		90
Wet Bulb	2338202	42704	53.9	6.976	793			1.5				90
Dew Point	2080681	40163	50.6	7.666	793		1.0	.8				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUN — MONTH

PAGE 1

ALL — HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
90/ 91								.0	.0	.1	.0	.0						11	11		
88/ 89							.0	.0	.0	.0	.0	.0						14	14		
86/ 87							.0	.0	.2	.1	.2	.1						43	44		
84/ 85						.0	.0	.2	.2	.2	.3	.1						69	69		
82/ 83						.0	.2	.3	.4	.4	.3	.0						104	104		
80/ 81			.0	.0	.0	.0	.4	.2	.5	.3	.1	.0						104	104		
78/ 79			.0	.0	.0	.4	.3	.5	.4	.3	.3	.0						151	151		
76/ 77				.0	.2	.6	.5	.4	.4	.1	.2							157	157	5	
74/ 75		.0	.1	.1	.5	.6	.5	.6	.5	.3								202	202	8	1
72/ 73		.0	.1	.5	.7	.9	.7	.6	.7	.3	.0							285	285	31	4
70/ 71		.1	.3	.5	.8	.7	.7	.6	.3	.2	.0							269	270	78	10
68/ 69	.0	.1	.6	.8	.9	.9	.7	.6	.2	.1								308	308	134	16
66/ 67	.0	.3	1.4	1.0	.9	.7	.8	.5	.2	.0								366	366	247	42
64/ 65	.0	.9	1.4	1.2	1.3	.7	.6	.3	.1	.0								419	419	348	123
62/ 63	.0	1.8	1.3	1.2	.7	.8	.7	.3	.1									445	445	448	238
60/ 61	.1	1.9	1.2	1.1	1.1	.6	.4	.1										408	408	499	326
58/ 59	.2	2.1	1.6	.9	.7	.5	.3	.1										408	408	597	465
56/ 57	.3	2.7	1.6	.9	.7	.4	.2	.0										427	427	577	485
54/ 55	.4	3.3	1.8	1.1	.7	.2	.1											474	474	595	512
52/ 53	.3	2.7	1.3	.8	.3	.2												351	351	616	572
50/ 51	.5	1.9	1.6	.4	.2	.2												308	308	501	571
48/ 49	.4	1.7	1.2	.3	.2	.0												242	242	400	514
46/ 47	.2	2.3	.7	.2	.1													226	227	347	489
44/ 45	.3	1.6	.5	.1	.0													158	158	296	467
42/ 43	.2	1.5	.4	.1														138	138	206	408
40/ 41	.2	1.5	.2	.0														110	110	162	322
38/ 39	.3	.6	.2															73	73	123	283
36/ 37	.2	.3																29	29	65	185
34/ 35	.1	.2																20	20	31	124
32/ 33	.1	.1																11	11	14	99
30/ 31	.0	.0																4	4	5	64
28/ 29																				1	14
TOTAL	3.9	27.4	17.6	11.3	10.2	8.4	7.2	5.4	4.3	2.6	1.4	.4						6334	6337	6334	6334

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.
Rel. Hum.	33740212	445700	70.4	19.377	6334
Dry Bulb	24946506	391302	61.7	11.124	6337
Wet Bulb	19933619	351733	55.5	7.963	6334
Dew Point	16745348	321522	50.8	8.187	6334

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.							
Dry Bulb		.5	236.9	129.6	47.9		720
Wet Bulb		.7	57.2	5.0			720
Dew Point		8.9	8.3	.6			720

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible] / 79				.1	.6													6	6		
78 / 77				.1	.1	.1												3	3		
76 / 75				.4	.1	.1												5	5		
74 / 73		.1	.4	.4	.9													14	14	4	
72 / 71	.2	.4	1.6	1.2	.6		.2											35	35	9	3
70 / 69	.2	.9	1.2	1.5	.1	.5												36	36	13	12
68 / 67	.9	1.6	1.9	.9	.2		.1											41	41	35	20
66 / 65	1.4	3.6	2.6	.5	.1	.1												67	67	56	41
64 / 63	1.5	4.6	2.2	1.4	.7	.1												85	86	79	48
62 / 61	.7	4.6	2.0	1.7	.7													79	79	62	69
[illegible] / 59	1.4	5.5	2.7	.6														82	82	90	85
[illegible] / 57	2.0	4.0	3.2	.5														78	78	89	106
56 / 55	1.5	4.2	2.1	.2														65	65	81	47
54 / 53	.9	5.2	2.1	.4														69	69	74	71
52 / 51	.5	3.6	2.5	.2														55	55	69	90
50 / 49	.4	3.4	1.4	.1														42	42	53	74
48 / 47	.2	2.1	.7															25	25	51	48
46 / 45	.4	.1	.1															10	10	25	49
44 / 43	.1	.2																3	3	9	17
42 / 41	.1																	1	1	2	16
40 / 39	.1																	1	1	1	6
38 / 37	.1																	1	1	1	1
36 / 35	.1																	1	1	1	1
TOTAL	12.3	44.8	26.9	10.3	4.4	1.0	.4												805		804
																		804		804	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5983527	68863	85.7	10.311	804							
Dry Bulb	2916184	48100	59.8	7.239	805			16.2	3.2	.3		93
Wet Bulb	2660106	45940	57.1	6.614	804			7.1	.5			93
Dew Point	2496157	44461	55.3	6.831	804			4.0				93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390	PHELPS-COLLINS/ALPENA MI	73-81	JUL
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
[illegible]/ 79				.4														3	3		
[illegible]/ 77				.6														5	5		
76/ 75			.1															1	1		
74/ 73				.4	.2	.1												6	6	3	
[illegible]/ 71	.4	.1	.2	.7	.5													16	16	9	5
[illegible]/ 69	.2	.6	1.7	1.3	.1													33	33	4	10
[illegible]/ 67	.1	2.2	2.1	.6		.1												42	42	21	10
[illegible]/ 65	.4	2.1	1.5	.2	.1													35	35	41	28
[illegible]/ 63	1.6	3.7	1.7	1.2	.4													70	71	72	44
[illegible]/ 61	1.5	4.8	1.7	.6	.1													71	71	56	56
[illegible]/ 59	1.1	5.7	2.3	.7	.1													82	83	68	86
[illegible]/ 57	3.1	5.6	3.1	.1														97	97	108	84
[illegible]/ 55	1.8	4.8	2.3	.2														75	75	71	72
[illegible]/ 53	2.4	4.5	.9	.1														65	65	96	72
[illegible]/ 51	1.3	4.4	1.3	.1														59	59	67	106
[illegible]/ 49	1.8	4.3	1.1															59	59	63	72
[illegible]/ 47	.9	4.0	.1															41	41	48	48
[illegible]/ 45	.7	2.3	.6															30	30	47	55
[illegible]/ 43	.6	1.7																19	19	26	34
[illegible]/ 41	.4	.4																6	6	15	20
[illegible]/ 39																					13
[illegible]/ 35	.4																	3	3	3	3
TOTAL	18.7	51.2	20.8	7.5	1.6	.2													820		818
																		818		818	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum	6522434	72672	88.8	9.000	818							
Dry Bulb	2760976	47186	57.5	7.471	820			12.0	1.7			93
Wet Bulb	2563094	45444	55.6	6.860	818			4.2	.3			93
Dew Point	2440683	44327	54.2	6.876	818			2.8				93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PAGE 1 0600-0800 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83					.1													1	1		
82/ 81				.1														1	1		
79/ 79			.1	.2		.4												6	6		
77/ 77			.1	.1	.2	.4	.1											8	8		
76/ 75		.1	.4	.1	1.0	.4												16	16	5	
74/ 73		.2	.6	.7	.6													18	18	2	5
72/ 71		.1	1.4	1.2	1.0	.9	.1											38	38	8	5
70/ 69		1.2	2.1	1.7	.9	.9												55	55	17	6
68/ 67	.4	2.5	1.5	2.5	1.5	.1												68	68	51	25
66/ 65	.5	3.2	3.1	2.2	.6	.2												80	80	59	47
64/ 63	.6	4.2	2.4	1.9	1.2	.2												85	85	82	46
62/ 61	.9	6.4	2.1	2.2	.7													100	100	98	89
60/ 59	1.1	4.5	3.0	1.2	.2													81	81	102	102
58/ 57	1.7	4.5	3.1	.6	.2													82	82	104	95
56/ 55	.9	2.0	1.5	.9														42	42	86	76
54/ 53	1.4	3.6	1.1	.4														52	52	68	95
52/ 51	.2	2.0	.9	.2														27	28	45	71
50/ 49	.7	1.1	.4															18	18	34	55
48/ 47	.7	1.5	.1															19	19	26	40
46/ 45	.1	.6																6	6	12	24
44/ 43	.1	.4																4	4	6	15
42/ 41	....	....																		2	9
40/ 39																					2
TOTAL	9.4	38.2	23.8	16.5	8.4	3.5	.2											807	808	807	807

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5676993	67013	83.0	11.802	807							
Dry Bulb	3140180	50052	61.9	7.012	808			24.3	5.8	.6		93
Wet Bulb	2812566	47398	58.7	6.065	807			9.6	.8			93
Dew Point	2610473	45613	56.5	6.335	807			4.7	.6			93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590	PHELPS-COLLINS/ALPENA MI	73-81	JUL
STATION	STATION NAME	YEARS	MONTH

PAGE 1 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93										.1								1	1		
92/ 89						.1	.1	.1	.1									4	4		
88/ 87						.1	.1	.2	.1	.2								7	7		
86/ 85					.2	.1	.1	.7	.5	.1	.1							16	16		
84/ 83					.6	.6	.5	.7	.2	.1	.2							25	25		
82/ 81			.1	.2	.7	.6	1.2	1.6	.4		.2							42	42		
80/ 79				.7	2.1	1.7	1.6	.5	.2	.4								59	59	2	
78/ 77		.1	.2	.6	1.5	1.0	2.6	1.2	.7	.2	.1							68	69	6	
76/ 75			.6	1.0	1.4	1.4	2.3	1.8	.1	.1								71	71	11	5
74/ 73			.7	1.4	2.5	2.7	2.0	1.0	.9	.2								92	92	37	5
72/ 71		.2	1.2	1.5	1.7	1.4	1.4	.4	.4									66	66	41	17
70/ 69		.6	1.7	1.7	2.2	2.6	2.0	.6										93	93	60	33
68/ 67	.4	.2	1.6	1.2	2.3	2.6	1.0	.2										78	79	89	44
66/ 65		1.0	1.5	2.2	1.6	1.1	.9	.1	.1									69	69	98	50
64/ 63		1.6	.9	1.4	1.7	.6	.5											54	54	109	56
62/ 61	.1	1.7	.5	.6	.5	.5												32	32	101	100
60/ 59		1.2	.6	.2	.2													19	19	100	85
58/ 57	.2	.4	.4		.2													10	10	79	87
56/ 55		.2	.4															5	5	43	83
54/ 53		.1		.1														2	2	27	72
52/ 51																				8	49
50/ 49																				1	53
48/ 47																				1	27
46/ 45																					11
44/ 43																					26
42/ 41																					9
40/ 39																					1
TOTAL	.1	1.5	10.5	16.9	19.0	17.1	16.2	9.3	3.8	1.6	.7								815		813
																		813		813	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3430011	51585	63.2	14.982	813							
Dry Bulb	4258794	58642	72.0	6.949	815			71.2	44.0	14.1	.1	93
Wet Bulb	3307521	51657	63.5	5.582	813			28.1	6.4			93
Dew Point	2780600	47196	58.1	7.088	813			11.9	1.1			93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PAGE 1 1200-1400 (HOURS L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
101/ 91												.2	.1					3	3		
101/ 95											.2	.1						3	3		
99/ 93									.2	.2	.2	.2						8	8		
97/ 91							.1			.5	.2	.1						8	8		
95/ 89					.1			.2	.6	.5	.4		.2	.1				18	18		
93/ 87					.1		.2	.9	.9	1.0	.5	.1	.2					32	32		
91/ 85				.1		.9	.6	1.0	1.1	1.1	.5	.2						45	45		
89/ 83					.6	1.5	1.7	1.1	1.1	1.0	.7	1.1						72	72		
87/ 81					.4	1.3	1.6	1.1	1.2	1.0	.9	.1						62	62	2	
85/ 79			.1	.9	.9	1.1	1.6	2.3	1.3	.9	.6	.2						81	81	2	1
83/ 77				.7	1.1	.6	2.9	1.8	1.7	.6	.2							80	80	2	2
81/ 75			.1	.4	1.1	1.2	1.9	1.8	1.6	1.3	.1							79	79	33	2
79/ 73		.1	.2	1.0	1.3	.7	1.5	1.6	1.0	.5								65	65	58	2
77/ 71			1.1	1.5	.7	2.1	1.8	1.3	1.0									78	78	58	20
75/ 69		.4	.9	.1	1.2	1.2	1.0	1.5	.6	.1								57	57	67	36
73/ 67		1.3	.5	.9	1.1	1.6	.6	.5		.1								54	54	95	52
71/ 65		.4	.6	.9	.6		.6	.1										26	26	100	68
69/ 63	.1	1.0	.7	.2	.4													20	20	92	51
67/ 61		.6	.5			.1												10	10	109	76
65/ 59		.7	.4	.1	.1													11	11	86	64
63/ 57	.2	.1	.6		.1													9	9	66	79
61/ 55																				33	83
59/ 53																				12	62
57/ 51																				4	62
55/ 49																				2	45
53/ 47																					32
51/ 45																					35
49/ 43																					25
47/ 41																					13
45/ 39																					7
43/ 37																					2
41/ 35																					1
39/ 31																					1

WET BULB TEMPERATURE DEPRESSION (F)

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	JUL

PAGE 2 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	.4	4.6	5.7	6.7	9.9	12.3	16.2	15.2	12.3	8.8	4.6	2.6	.6	.1				821	821	821	821

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2634348	44518	54.2	16.394	821							
Dry Bulb	4856698	62704	76.4	7.625	821			84.4	63.0	33.2	1.6	93
Wet Bulb	3478299	53233	64.8	5.708	821			35.9	11.0	.2		93
Dew Point	2764253	47195	57.5	7.906	821		.1	13.0	.8			93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PAGE 1 1500-1700 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
[illegible]/ 97											.2		.4	.2				7	7		
[illegible]6/ 95											.2	.1	.2					5	5		
[illegible]/ 93										.1		.1						2	2		
[illegible]/ 91									.2	.5		.4		.1				10	10		
[illegible]/ 89					.1			.2	.6	1.0	.4	.1		.1				21	21		
[illegible]8/ 87						.1	.1	.1	.5	1.0	.2	.1						18	18		
[illegible]6/ 85				.1	.1	1.0	1.0	1.2	.9	1.2	.5	.1	.4					53	53		
[illegible]4/ 83					.2	1.5	.6	1.2	1.1	1.0	1.0	.5	.1					59	59		
[illegible]/ 81			.1		.9	.9	1.5	1.7	2.7	1.5	1.5	.4	.1					91	91	2	
[illegible]/ 79					.4	1.0	.6	.9	1.1	1.3	.7							49	49		2
7[illegible]/ 77				.7	1.1	2.2	1.6	1.3	1.5	.7	.4							78	78	8	
[illegible]6/ 75			.1	.9	1.5	1.7	1.6	2.8	1.0	1.	.5							90	90	22	2
[illegible]4/ 73		.2	.5	2.0	1.0	1.1	3.2	2.6	.5	.2								92	92	47	5
[illegible]/ 71	.1	.2	1.2	.5	.6	1.7	2.2	1.7	1.6	.2								83	84	56	12
[illegible]/ 69	.1	.5	1.0	.2	.5	1.0	.7	1.1	.5	.4								49	49	81	36
6[illegible]/ 67		.6	1.3	.4	.7	.6	.9	.6	.2									44	44	104	51
[illegible]6/ 65		.5	.5	.4	.6		.4											19	19	94	61
[illegible]4/ 63		.9	.5	.9	.2													20	20	88	65
[illegible]2/ 61		.2	.6	.4	.2			.1										13	13	119	72
[illegible]/ 59		.4		.2	.1		.1	.1										8	8	75	60
[illegible]/ 57		.9		.1	.1													9	9	60	70
5[illegible]/ 55																				44	79
[illegible]4/ 53																				11	65
[illegible]2/ 51																				6	52
5[illegible]/ 49																					60
[illegible]/ 47																				3	38
4[illegible]/ 45																					28
[illegible]4/ 43																					26
[illegible]2/ 41																					17
4[illegible]/ 39																					9
3[illegible]/ 37																					4
3[illegible]/ 35																					2
3[illegible]/ 33																					3
[illegible]2/ 31																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUL — MONTH

PAGE 2 — 1500-1700 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
TOTAL	.2	4.4	5.9	6.7	8.4	12.7	14.4	15.7	12.3	10.1	5.6	1.8	1.2	.5				821	820
																		820	820

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2572505	43775	53.4	16.961	820							
Dry Bulb	4545302	62770	76.5	7.505	821			85.2	65.1	33.1	1.6	93
Wet Bulb	3453518	53914	64.7	5.677	820			36.3	9.0	.2		93
Dew Point	2721037	46757	57.0	8.189	820		.1	12.2	1.0			93

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

AD-A116 099 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2
PHELPS-COLLINS, ALPENA, MICHIGAN. REVISED UNIFORM SUMMARY OF SU--ETC(U)
MAY 82

UNCLASSIFIED USAFETAC/DS-82/031 SBI-AD-E850 176 NL

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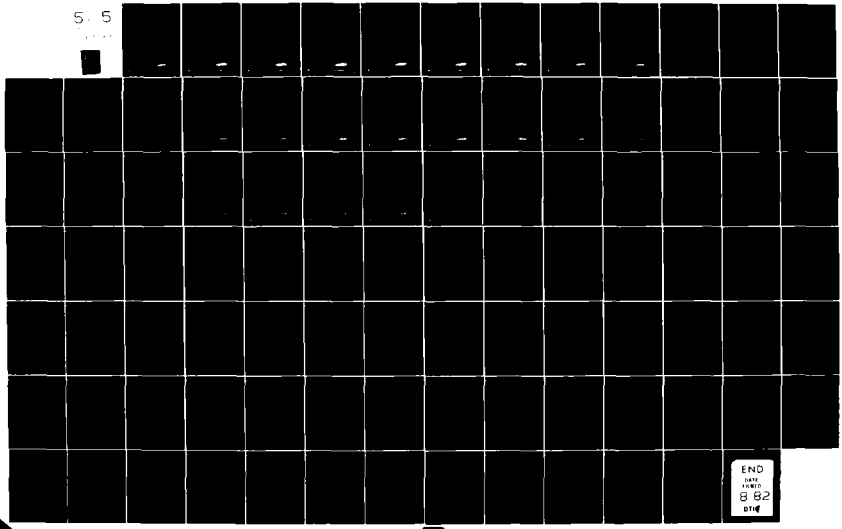
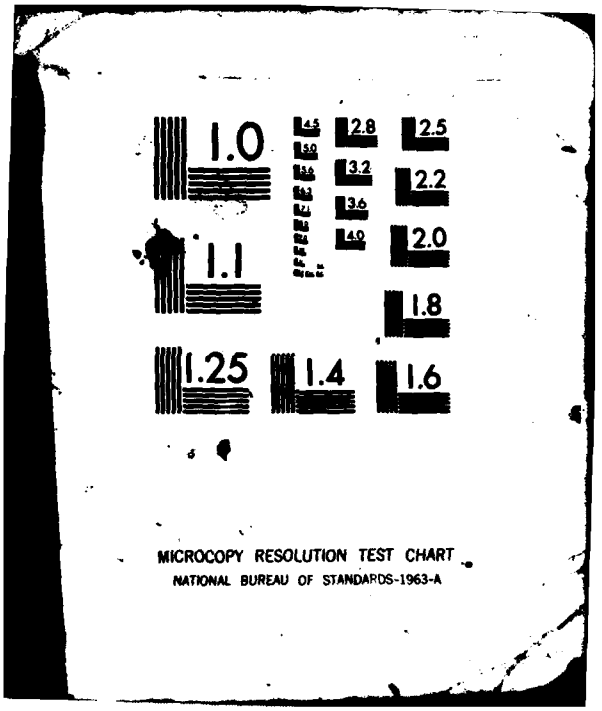




MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUL — MONTH

PAGE 1 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
96/ 95													.1					1	1		
94/ 93										.1	.2							3	3		
92/ 91									.2		.1							3	3		
90/ 89									.1	.2				.1				4	4		
88/ 87								.5	.1	.4								8	8		
86/ 85							.5	.6	.5	...		.1						14	14		
84/ 83					.5	.2	.5	.9	1.1	.4	.2	.1						32	32		
82/ 81					.4	.6	1.4	1.2	.5	.4		.2						38	38		
80/ 79			.1	.9	.7	.4	1.8	.6	1.5	.5	.2							55	55		
78/ 77		.1		.7	.6	2.0	1.1	1.0	.7		.1							52	52		
76/ 75		.1	.2	1.2	1.1	1.6	1.0	1.6	1.1	.4	.1							69	69	14	2
74/ 73		.4	1.2	2.1	2.0	1.6	2.5	1.1	.5	.4	...							95	95	28	3
72/ 71	.2	.5	1.4	2.3	1.2	1.6	1.6	.7	.9	.1								86	86	41	15
70/ 69		.7	3.2	2.1	1.6	2.2	1.2	.9	.6									102	102	69	27
68/ 67	.4	.6	2.2	.6	1.6	1.2	1.5	1.0	.2									76	76	104	51
66/ 65	.4	1.0	1.8	1.4	1.6	.9	1.0	.4										68	68	95	49
64/ 63	.1	1.1	.2	1.0	1.1	.5	.9	...										40	40	101	86
62/ 61		.1	1.1	1.1	1.0	.4	.1											31	31	109	97
60/ 59		.6		.2	.7	.2												15	15	66	61
58/ 57		.4	.4	.2		.1	.1											10	10	75	54
56/ 55	.4	.2	.1	.2														8	8	51	77
54/ 53				.2														2	2	38	84
52/ 51				...																17	68
50/ 49																				9	48
48/ 47																				2	31
46/ 45																				1	12
44/ 43																					20
42/ 41																					22
40/ 39																					8
38/ 37																					4
36/ 35																					2
32/ 31																					1
TOTAL	1.5	5.9	12.1	14.4	14.2	13.5	15.1	10.5	8.1	2.8	1.1	.5	.1	.1				812	812	812	812

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	3298022	49910	61.5	16.851	812
Dry Bulb	4266702	58588	72.1	7.873	812
Wet Bulb	3270327	51317	63.2	5.789	812
Dew Point	2708346	46450	57.2	7.946	812

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb			73.1	42.8	15.6	.5	93
Wet Bulb			29.3	4.8			93
Dew Point		.1	11.2	.6			93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
JUL — MONTH

PAGE 1 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
86/ 85							.1		.1									2	2		
84/ 83						.1												1	1		
82/ 81						.1	.1	.1										3	3		
80/ 79					.1	.2	.1	.2										6	6		
78/ 77				.6	.1	.5	.1											11	11		
76/ 75			.1	.6	1.5	1.1	.5											31	31	1	
74/ 73			.9	1.1	.9	.2	.1	.1										27	27	3	
72/ 71	.2	1.0	1.3	2.2	.6	.1	.2	.1										48	48	16	2
70/ 69	.5	1.1	2.7	2.3	1.1	.2	.5	....										69	70	31	25
68/ 67	.9	2.3	4.6	1.3	.9	.7	.1											89	89	60	32
66/ 65	1.0	3.1	2.2	1.5	1.0	.7												77	77	90	44
64/ 63	.6	5.3	2.9	2.3	1.5	.2												105	105	97	81
62/ 61	.7	2.9	2.3	2.6	.4	.6												78	78	91	105
60/ 59	.1	2.1	3.4	2.1	.6	.1												79	79	82	81
58/ 57	.7	2.1	3.7	1.5	.7	....												71	71	82	74
56/ 55	.4	2.2	2.9	1.3	.2	.1												59	59	83	64
54/ 53	.1	1.7	1.0	.7														29	29	71	65
52/ 51		.7	1.6	.2	.1													22	22	46	72
50/ 49		.5	.6															9	9	37	75
48/ 47		.1																1	1	21	38
46/ 45		....																		6	18
44/ 43		.1																1	1		29
42/ 41	.1																	1	1	2	11
38/ 37																					3
TOTAL	6.0	25.8	30.3	20.4	9.6	5.3	2.0	.6	.1									819	820	819	819

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤67 F	≥ 75 F	≥ 80 F	≥ 90 F	Total
Rel. Hum.	5236861	64681	79.0	12.540	819							
Dry Bulb	3367546	52250	63.7	6.136	820			32.7	9.2	1.0		93
Wet Bulb	2946070	48864	59.7	6.126	819			12.6	.5			93
Dew Point	2680999	46513	56.8	6.941	819			6.7				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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) JUL (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
98/ 97											.0	.0	.1	.0				10	10		
96/ 95											.1	.0	.0					9	9		
94/ 93									.0	.1	.1	.0						14	14		
92/ 91							.0		.1	.1	.0	.1		.0				21	21		
90/ 89					.0	.0	.0	.1	.2	.2	.1	.0	.0	.0				47	47		
88/ 87					.0	.0	.1	.2	.2	.3	.1	.0	.0					65	65		
86/ 85				.0	.0	.2	.3	.4	.4	.3	.1	.1	.0					130	130		
84/ 83					.3	.5	.4	.5	.4	.3	.3	.2	.0					190	190		
82/ 81			.0	.0	.3	.4	.7	.7	.6	.4	.3	.1	.0					237	237	4	
80/ 79			.0	.4	.6	.6	.7	.6	.5	.4	.2	.0						265	265	4	3
78/ 77		.0	.0	.5	.6	.8	1.1	.7	.6	.2	.1							305	306	16	2
76/ 75		.0	.2	.6	1.0	.9	.9	1.0	.5	.4	.1							362	362	86	11
74/ 73		.1	.6	1.1	1.2	.8	1.2	.8	.4	.2								409	409	182	20
72/ 71	.2	.5	1.2	1.4	.9	1.0	1.0	.5	.5	.0								450	451	238	79
70/ 69	.1	.8	1.8	1.4	1.0	1.1	.7	.5	.2	.1								494	495	342	185
68/ 67	.3	1.4	2.0	1.0	1.0	.9	.5	.3	.1	.0								492	493	559	285
66/ 65	.4	1.8	1.7	1.2	.8	.4	.4	.1	.0									441	441	633	388
64/ 63	.6	2.8	1.4	1.3	.9	.2	.2											479	481	720	477
62/ 61	.5	2.7	1.4	1.2	.5	.2	.0	.0										414	414	741	664
60/ 59	.5	2.7	1.6	.7	.5	.0	.0	.0										377	378	669	624
58/ 57	1.0	2.2	1.8	.4	.2	.0	.0											366	366	663	699
56/ 55	.6	1.7	1.2	.4	.0	.0												294	294	492	581
54/ 53	.6	1.9	.6	.2														219	219	397	556
52/ 51	.3	1.3	.8	.1	.0													163	164	262	570
50/ 49	.4	1.2	.4	.0														128	128	195	482
48/ 47	.2	1.0	.1															86	86	152	382
46/ 45	.2	.5	.1															46	46	91	252
44/ 43	.1	.3																27	27	41	192
42/ 41	.1	.0																8	8	21	117
40/ 39	.0																	1	1	1	65
38/ 37	.0																	1	1	1	14
36/ 35	.1																	4	4	4	10
34/ 33	...																				3
32/ 31																					3

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 70 F	≤ 80 F	≤ 90 F	Total
Rel. Hum.												
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/MAC

PSYCHROMETRIC SUMMARY

726390	PHELPS-COLLINS/ALPENA MI	73-81	JUL
STATION	STATION NAME	YEARS	MONTH

PAGE 2 ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	6.1	22.7	16.9	11.9	9.5	8.2	8.1	6.4	4.6	2.9	1.5	.6	.2	.1				6514	6522	6514	6514

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	35354701	462817	71.0	19.481	6514							
Dry Bulb	30392362	440292	67.5	10.127	6522			399.7	238.6	98.3	3.8	744
Wet Bulb	24491801	396859	60.9	6.939	6514			163.4	33.4	.5	....	744
Dew Point	21202548	368512	56.6	7.383	6514		.3	[illegible]	4.1			744

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) AUG (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
80/ 79					.4													3	3		
78/ 77					.2													2	2		
76/ 75			.1	.6	.6													11	11		
74/ 73		.1	.4	.2	.2													8	8		
72/ 71		.5	1.2	.6	.5													23	23	7	2
70/ 69		.4	1.7	.5	.2													23	23	17	2
68/ 67	.1	2.1	1.7	.7	.2													40	40	29	21
66/ 65	1.7	3.3	3.7	.9	.1	.1												80	80	56	53
64/ 63	1.6	5.5	1.8	.2	.5													79	79	69	61
62/ 61	1.4	5.3	2.8	1.2	.4													90	90	89	60
60/ 59	1.2	5.5	1.5	1.2	.1													78	78	75	78
58/ 57	1.2	5.0	2.7		.1													74	74	74	88
56/ 55	1.5	5.0	2.2	.2	.1													74	74	95	77
54/ 53	.9	4.2	1.6															54	54	71	71
52/ 51	1.1	3.6	.9															45	45	69	70
50/ 49	.9	2.9	1.5	.2														45	45	46	81
48/ 47	.7	3.1	.5	.1														36	36	40	42
46/ 45	.9	1.2	.1															18	18	36	35
44/ 43	.9	1.0																15	15	19	35
42/ 41	.6	.7																11	11	13	20
40/ 39	.2	.4																5	5	9	12
38/ 37	...	...																			6
TOTAL	14.9	49.9	24.4	6.9	3.8	.1												814	814	814	814

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤70 F	≥80 F	≥93 F	Total
Ref. Hum.	6310963	71273	87.6	9.271	814							
Dry Bulb	2856714	47824	58.8	7.601	814			12.6	2.7			93
Wet Bulb	[illegible]	46020	56.5	7.000	814			6.1				93
Dew Point	[illegible]	[illegible]	[illegible]	[illegible]	814			2.9				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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1 — 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73			.5	.8	.1													11	11		
72/ 71		.3	.9	.5														13	13	2	1
70/ 69		.8	1.9	.8														27	27	12	6
68/ 67	.1	1.5	1.3	.9	.1	.1												32	32	24	7
66/ 65	1.1	3.6	2.0	.5	.1													57	57	41	42
64/ 63	2.6	4.1	2.5	.5	.3													80	80	73	65
62/ 61	1.6	6.1	1.5	.5	.1													79	79	66	56
60/ 59	.8	6.0	1.9		.1													70	70	77	65
58/ 57	.4	4.9	2.3	.3														62	62	72	77
56/ 55	1.3	4.5	2.5	.1														67	67	63	59
54/ 53	.6	6.4	1.3															66	66	70	72
52/ 51	1.6	4.9	.9															59	59	88	74
50/ 49	1.5	3.0	1.0															44	44	54	95
48/ 47	1.4	4.8	.3															51	51	35	36
46/ 45	.8	3.0																30	30	55	36
44/ 43	1.3	1.3																20	20	31	48
42/ 41	.9	.9																14	14	16	31
40/ 39	1.4	.3																13	13	15	20
38/ 37	.3																	2	2	3	7
36/ 35	.1																	1	1	1	1
TOTAL	17.7	56.3	20.6	4.5	.9	.1												798	798	798	798

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤72 F	≤80 F	≤90 F	Total
Rel. Hum.	6429978	71340	89.4	8.100	798							
Dry Bulb	2645010	45514	57.0	7.850	798			9.7	1.3			93
Wet Bulb	2474349	44049	55.2	7.334	798			4.4	.....			93
Dew Point	2362406	43018	53.9	7.381	798			1.6				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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
78/ 77				.2	.1													3	3		
76/ 75				.4	.2													5	5		
74/ 73		.2	.4	.6	.4	.1												14	14	1	
72/ 71		1.0	1.7	.9	.4													28	28	5	3
70/ 69	.2	.7	2.6	1.2	.1													40	40	22	10
68/ 67	.6	2.2	2.1	.7	1.0		.1											55	55	37	29
66/ 65	1.5	4.3	3.0	1.2	.2													83	83	60	49
64/ 63	1.5	4.8	2.1	1.5	.1													81	81	78	63
62/ 61	1.5	6.2	2.8	1.1	.4													97	97	91	70
60/ 59	1.0	4.1	2.8	1.9	.1													69	69	84	84
58/ 57	.6	5.1	3.0	.4														73	73	88	78
56/ 55	.9	4.1	3.0	.1														65	65	74	81
54/ 53	1.0	3.5	1.2	.1														47	47	79	76
52/ 51	1.0	3.2	.9															41	41	63	69
50/ 49	.8	2.5	.5															29	29	38	72
48/ 47	1.0	2.1	.1															31	31	53	47
46/ 45	.5	2.0																28	28	27	29
44/ 43	.5	.9																11	11	17	26
42/ 41	.4	.9																10	10	10	13
40/ 39	.7																	6	6	9	11
38/ 37		.1																1	1		3
36/ 35	.1	....																1	1	2	2
TOTAL	13.8	47.8	26.2	8.9	3.1	.1	.1											810	810		810
																		810		810	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥92 F	Total
Rel. Hum.	6265185	70837	87.5	9.320	810							
Dry Bulb	2920225	48241	59.6	7.634	810			16.6	2.5			93
Wet Bulb	2696350	46380	57.3	7.010	810			7.8	.1			93
Dew Point	[illegible]	[illegible]	[illegible]	[illegible]	810			9.8				93

USAFETAC FORM 26-4 0-26-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1

0900-1100 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
92/ 91											.1							1	1		
88/ 87								.2	.1									3	3		
86/ 85						.1	.1			.1								3	3		
84/ 83					.1	.4	.9	.4	.1									15	15		
82/ 81				.1	.2	.5	.4	.1	.1									12	12		
80/ 79			.1	.5	.6	.5	1.2	.9	.5	.1								36	36		
78/ 77			.7	.9	1.1	.9	1.0	1.0	.4	.1								49	49	1	
76/ 75		.2	.5	1.4	2.8	1.6	1.2	1.5										75	75	5	1
74/ 73		.2	1.2	1.6	2.2	2.3	1.4	.2	.2									77	77	27	8
72/ 71	.4	.2	1.5	2.5	1.4	3.1	1.6	.4										89	90	38	16
70/ 69	.1	1.1	3.2	2.0	3.0	1.4	.9											94	95	56	22
68/ 67	.4	1.1	2.5	2.1	3.2	1.2	.7	.1										92	92	73	48
66/ 65	.1	2.7	2.6	2.3	2.2	1.2	.5	.2										97	97	117	64
64/ 63		1.9	.9	1.5	1.9	1.1	.5	.1										63	63	111	67
62/ 61	.1	1.5	1.0	1.4	1.2	.2												44	44	123	99
60/ 59	.2	.9	.9	.4	.2	.6												26	26	88	76
58/ 57	.1	.6		.1	.5													11	11	62	98
56/ 55	....	.2	.7	.1	.1													10	10	46	77
54/ 53		.4	.1															.4	.4	28	69
52/ 51		.4	.4	.1														7	7	18	48
50/ 49			.2															2	2	10	45
48/ 47																				5	32
46/ 45																				2	15
44/ 43																					9
42/ 41																					14
40/ 39																					2
TOTAL	1.5	11.5	16.5	16.9	20.9	15.2	10.4	5.2	1.5	.4	.1							810	812	810	810

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	3978792	55470	68.5	14.797	810
Dry Bulb	3972093	56547	69.6	6.851	812
Wet Bulb	3219829	50839	62.8	5.877	810
Dew Point	2783761	47171	58.2	6.918	810

Mean No. of Hours with Temperature	≤0 F	≤32 F	≤67 F	≤73 F	≥80 F	≥93 F	Total
Dry Bulb			62.0	31.0	0.1		93
Wet Bulb			23.0	3.0	....		93
Dew Point			18.0	1.0			93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1 — 1200-1800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93										.1	.1							2	2		
92/ 91									.2		.2							4	4		
90/ 89							.2	.1	.7									9	9		
88/ 87						.1	.2	1.0	.1	.2	.4	.1						18	18		
86/ 85					.1	.5	.4	.7	1.1	.2								25	25		
84/ 83				.2	.4	.4	1.0	.6	.6	.5		.2						32	32		
82/ 81			.1	.1	1.4	.6	1.5	.5	1.2	1.1	.5							57	57		
80/ 79		.1	.4	.1	1.5	2.1	1.1	1.5	2.7	1.9	.2							94	94	1	1
78/ 77			.5	.4	1.4	1.6	1.5	1.5	.9	.5	.1							67	67	9	
76/ 75		.1	.6	.6	1.6	2.0	1.7	2.3	1.5	.2								87	87	22	5
74/ 73		.1	.5	1.9	1.0	2.5	1.7	1.6	.5	.1								80	80	41	8
72/ 71		.2	1.2	1.9	2.2	1.5	1.7	1.2	.4									84	84	50	19
70/ 69			1.2	1.1	1.2	1.4	1.4	1.5	.6	.1								69	69	65	27
68/ 67		1.2	1.6	.4	.6	1.4	1.2	.5	.1									57	57	87	41
66/ 65	.1	.4	1.2	.9	.4	.9	1.2	.1										42	42	96	72
64/ 63	.2	2.0	.9	.4	.4	.7	.4											40	40	123	82
62/ 61	.1	.7	.5	.2	.2	.5	.5											23	23	112	59
60/ 59		.6			.1	.1												7	7	68	73
58/ 57			.1	.1	.2													4	4	47	82
56/ 55		.2	.1															3	3	42	66
54/ 53				.2														2	2	27	54
52/ 51		.1		.1														2	2	11	48
50/ 49		.1																1	1	4	52
48/ 47																				4	40
46/ 45																					31
44/ 43																					22
42/ 41																					21
40/ 39																					5
38/ 37																					1
TOTAL	.5	6.1	9.0	8.7	12.7	16.2	15.8	13.2	10.8	5.1	1.6	.4							809		809
																		809		809	

Element (X)	$\Sigma R'$	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.	2981663	47355	58.5	16.111	809							
Dry Bulb	4478468	59910	74.1	7.199	809			78.7	54.6	21.6	.2	93
Wet Bulb	3383791	51871	64.1	5.882	809			31.6	8.4			93
Dew Point	2749863	46693	57.7	7.933	809			11.6	1.6			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

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1

1500-1700 — HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
92/ 91							.2			.4								5	5		
90/ 89								.5	.7	.4	.2							15	15		
88/ 87					.1		.5	.9	.4	.5	.4							22	22		
86/ 85					.1	.9	.2	.9	.5	1.0	.2							31	31		
84/ 83				.1	.4	.1	1.1	1.0	.6	.5	.1	.2						34	34		
82/ 81				.2	.4	1.1	1.2	.6	.9	.5	.2	.1						43	43		
80/ 79				.6	.7	1.7	1.2	2.5	2.2	1.2	.2							85	85	3	
78/ 77			.1	.6	1.5	.9	2.1	1.3	2.2	.6	.4							79	79	3	
76/ 75			.4	.5	2.6	1.8	1.3	1.5	.5	.2	.1							73	73	23	4
74/ 73		.6	.5	1.5	.9	2.9	1.6	1.5	1.1	.1								87	87	34	5
72/ 71		.2	.9	1.3	1.6	1.6	1.0	.9	.9	.2								70	70	61	20
70/ 69			2.0	2.0	1.1	1.1	1.2	.9	.5	.2								73	73	70	26
68/ 67		.5	1.1	1.0	.9	1.2	1.5	.5										54	54	79	45
66/ 65	.2	1.5	1.2	1.0	1.3	.6	1.0	.5										60	60	101	72
64/ 63	.5	1.6	1.3	.4	.1	.6	.6											42	42	131	70
62/ 61		1.1	.5	.2	.7	.2												23	23	99	75
60/ 59	.1	.4		.2		.1												7	7	70	78
58/ 57		.1	.6		.2													8	8	53	86
56/ 55			.1															1	1	45	68
54/ 53			.1															1	1	29	57
52/ 51			.1	.1														2	2	8	49
50/ 49																				4	41
48/ 47																				2	30
46/ 45																					20
44/ 43																					22
42/ 41																					17
40/ 39																					9
38/ 37																					2
36/ 35																					3
TOTAL	.9	6.0	9.0	9.8	12.6	15.0	14.8	13.3	10.4	5.9	2.0	.4						815	815	815	815

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	≤0 F	≤32 F	≤60 F	≤70 F	≤80 F	≤90 F	Total
						Sum No. of Hours with Temperature						
Dat. Hum.	3028306	47800	58.7	16.426	815							
Dry Bulb	4510783	68331	74.0	7.411	815			76.6	54.1	21.7		93
Wet Bulb	3375694	52246	64.1	5.781	815			[illegible]	[illegible]	.1		93
Dew Point	2788098	46982	57.6	7.082	815			[illegible]	[illegible]			93

FORM 26-54 0-26-3 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

126390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
90/ 89										.1								1	1		
88/ 87								.4	.1									8	8		
86/ 85						.2	.2			.2								6	6		
84/ 83					.1	.2	.6	.2	.4	.2								15	15		
82/ 81				.1	.2	.4	.2	.7	.6	.1	.1							21	21		
80/ 79			.1	.1	.6	1.0	.4	.6	.4	.1	.1							28	28		
78/ 77			.1	....	1.2	1.1	1.0	.9	.9	.4	....							45	45		
76/ 75		.5	1.0	1.1	1.4	1.2	.6	.5	.4	.2								56	56	12	2
74/ 73		.2	.9	2.0	1.0	1.7	1.7	.6	.4									69	69	13	5
72/ 71		1.1	2.0	1.7	1.4	1.6	.9	1.0	.2									80	80	29	10
70/ 69	.2	1.1	1.6	1.4	2.3	1.5	.2	.7	.1									75	75	57	23
68/ 67	.4	1.6	3.2	2.2	1.5	1.2	1.1	.5	.1									96	96	76	40
66/ 65	.1	3.0	2.6	2.6	1.7	1.0	.5											93	93	81	69
64/ 63	.9	3.0	2.3	1.5	1.7	1.2	.7											92	92	130	68
62/ 61	.2	2.6	1.2	.9	1.0	.6	.1											54	54	119	79
60/ 59	.1	1.0	.9	1.2	.7	.1												33	33	94	97
58/ 57	.1	.4	.1	.6	.5	.2												16	16	63	98
56/ 55	....	.4	1.2	.4	.2	....												18	19	50	60
54/ 53		.1	....	.4	.1													5	5	40	60
52/ 51		.1																1	1	27	44
50/ 49			.5	.1														5	5	13	48
48/ 47																				5	33
46/ 45																				4	27
44/ 43																					21
42/ 41																					20
40/ 39																					9
TOTAL	2.1	15.0	17.7	16.2	15.7	13.4	8.4	6.2	3.6	1.5	.2							813	814	813	813

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥72 F	≥80 F	≥92 F	Total
Rel. Hum.	4052750	55830	68.7	16.416	813							
Dry Bulb	3900790	56122	68.9	6.962	814			56.7	28.0	7.2		93
Wet Bulb	3160079	50509	62.1	5.779	813			21.4	2.9	....		93
Dew Point	2731123	46731	57.5	7.444	813			9.2	.8			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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1
2100-2300 — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81						.2												2	2		
80/ 79					.2	.2												4	4		
78/ 77					.5	.2												6	6		
76/ 75		.2	.1	.1	.9			.1										12	12	1	
74/ 73			.6	1.5	.2	.1												20	20	2	1
72/ 71		.9	1.4	1.4	.4	.2												34	34	5	2
70/ 69		2.2	2.1	.9	1.2	.1												53	53	33	7
68/ 67	.6	2.2	2.3	1.6	.6	.5	.2											66	66	53	40
66/ 65	1.1	3.7	4.1	1.4	.9	.1												91	91	58	61
64/ 63	1.1	5.5	3.3	1.7	.4	.1												99	99	85	57
62/ 61	1.6	4.2	3.2	1.5	.4													88	88	104	77
60/ 59	.2	6.0	2.6	1.1	.5													85	85	87	89
58/ 57	.5	3.8	3.2	.6	.1													67	67	97	97
56/ 55	.4	3.9	2.2	.9														60	60	79	83
54/ 53	1.1	2.0	.9	1.0														40	40	71	76
52/ 51	.2	1.4	2.0	.2														31	31	36	65
50/ 49	.5	1.6	1.6															30	30	36	41
48/ 47	.5	.5																8	8	36	42
46/ 45	.1	.9	.2															10	10	17	36
44/ 43	.1	.5																5	5	7	20
42/ 41		.1																1	1	5	12
40/ 39																					4
38/ 37																					2
TOTAL	8.1	39.7	29.8	13.8	6.3	2.0	.2	.1											812		812
																		812		812	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5762996	67846	83.6	10.776	812							
Dry Bulb	3133496	50124	61.7	6.969	812			22.6	5.0	.3		93
Wet Bulb	2828045	47641	58.7	6.368	812			10.8	.3			93
Dew Point	2632959	45909	56.5	6.786	812			5.7	.1			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

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
AUG — MONTH

PAGE 1

ALL — HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
94/ 93										.0	.0							2	2		
92/ 91							.0		.0	.0	.0							10	10		
90/ 89							.0	.1	.2	.1	.0							25	25		
88/ 87					.0	.0	.1	.3	.1	.1	.1	.0						47	47		
86/ 85					.0	.2	.1	.2	.2	.2	.0							65	65		
84/ 83				.0	.1	.1	.4	.3	.2	.2	.0	.1						96	96		
82/ 81			.0	.1	.3	.4	.4	.2	.4	.2	.1	.0						135	135		
80/ 79		.0	.1	.2	.5	.7	.5	.7	.7	.4	.1							250	250	4	1
78/ 77			.2	.3	.8	.6	.7	.6	.5	.2	.1							251	251	13	
76/ 75		.1	.3	.6	1.3	.8	.6	.7	.3	.1	.0							319	319	63	12
74/ 73		.2	.6	1.2	.8	1.2	.8	.5	.3	.0								366	366	118	27
72/ 71	.0	.6	1.3	1.3	1.0	1.0	.6	.4	.2	.0								421	422	197	73
70/ 69	.1	.8	2.0	1.2	1.2	.7	.5	.4	.2	.0								454	455	332	123
68/ 67	.3	1.6	2.0	1.2	1.0	.7	.6	.2	.0									492	492	458	271
66/ 65	.8	2.8	2.5	1.3	.9	.5	.4	.1										603	603	610	482
64/ 63	1.0	3.5	1.9	1.0	.7	.5	.3	.0										576	576	800	533
62/ 61	.8	3.5	1.7	.9	.6	.2	.1											498	498	803	575
60/ 59	.4	3.1	1.3	.6	.2	.1												375	375	643	640
58/ 57	.4	2.5	1.5	.3	.2	.0												315	315	548	704
56/ 55	.5	2.3	1.5	.2	.1													298	299	494	571
54/ 53	.4	2.1	.6	.2	.0													219	219	415	535
52/ 51	.5	1.7	.6	.1														188	188	320	467
50/ 49	.4	1.3	.7	.0														156	156	205	475
48/ 47	.5	1.3	.1	.0														126	126	160	310
46/ 45	.3	.9	.0															78	78	141	232
44/ 43	.3	.4																51	51	74	203
42/ 41	.2	.3																36	36	44	148
40/ 39	.3	.1																24	24	33	72
38/ 37	.0	.0																3	3	3	21
36/ 35	.0																	2	2	3	.6
TOTAL	7.4	29.0	19.1	10.7	9.5	7.8	6.2	4.8	3.3	1.6	.5	.1						6481	6484	6481	6481

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	38807333	487751	75.3	18.002	6481
Dry Bulb	28426149	424613	65.5	9.778	6484
Wet Bulb	23750447	389553	60.1	7.197	6481
Dew Point	21064621	366323	56.5	7.444	6481

Mean No. of Hours with Temperature	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb			336.8	179.7	57.0	.2	744
Wet Bulb			136.0	22.7	.1		744
Dew Point			58.2	4.6			744

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

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
75-81 — YEARS
SEP — MONTH

PAGE 1

0000-0200 — HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75				.1														1	1		
74/ 73			.4															3	3		
72/ 71		.4	.4	.3														8	8	1	
70/ 69		.4	.4	.1		.3												9	9	7	4
68/ 67		.5	.5	.6	.1	.1												15	15	8	9
66/ 65	.3	1.2	.9	.4	.4	.3												26	26	11	7
64/ 63		2.3	.4	.1	.3	.5												28	28	21	13
62/ 61	.1	2.7	.9	.4	.4	.1												36	36	31	22
60/ 59	.6	3.3	1.7	.3		.3												48	48	32	27
58/ 57	1.9	4.5	2.6	.4		.1												74	74	61	58
56/ 55	.6	3.2	2.7	.9	.4													57	57	62	45
54/ 53	1.0	5.0	1.3	.9	.1													65	65	62	43
52/ 51	1.4	2.9	2.9	.4	.3													62	63	70	84
50/ 49	1.4	4.1	2.0	.4	.1													63	64	54	61
48/ 47	.8	2.6	1.2	.5														39	39	63	49
46/ 45	.6	3.7	.5															38	38	49	40
44/ 43	.4	5.4	.8															51	51	49	50
42/ 41	.9	5.2	1.3	.1														59	59	62	68
40/ 39	1.2	2.6	.1															30	30	43	69
38/ 37	.9	1.3																17	17	33	30
36/ 35	1.3	2.2	.1															28	28	26	38
34/ 33	.6	.3	.1															8	8	17	29
32/ 31	1.0	.9																15	15	13	23
30/ 29		.3																2	2	7	6
28/ 27																					5
26/ 25																					2
TOTAL	15.1	54.7	21.1	5.4	2.0	1.7												782	784	782	782

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	5958732	67794	86.7	10.213	782							
Dry Bulb	2131480	40226	51.3	9.287	784		2.0	4.1	.5			90
Wet Bulb	1954726	38490	49.2	8.783	782		2.3	1.8				90
Dew Point	1816213	37015	47.3	9.063	782		4.1	1.5				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 1 0300-0500 (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
74/ 73			.4															3	3		
72/ 71		.5		.1														5	5		
70/ 69		.4	.4	.1	.1													8	8	9	4
68/ 67		.8	.9	.1	.1													15	15	4	5
66/ 65	.4	.5	.9	.8	.4													23	23	14	12
64/ 63		1.6	1.4	.1	.6													30	30	14	8
62/ 61	.6	1.5	.8	.5	.5													31	31	28	23
60/ 59	1.5	1.4	1.0															29	29	41	26
58/ 57	1.1	2.7	1.4	.9		.1												49	49	32	37
56/ 55	1.6	5.2	2.0	.5	.1													75	75	57	59
54/ 53	1.3	5.3	1.4	.5														67	67	65	43
52/ 51	1.1	5.4	1.6	.5														69	69	83	71
50/ 49	1.9	3.2	1.9															55	55	63	85
48/ 47	.5	3.6	.8	.4														54	54	51	55
46/ 45	.1	4.9	.3	.4														41	41	56	37
44/ 43	.6	4.9	.4	.3														49	50	51	58
42/ 41	1.0	4.7	.9															52	52	46	64
40/ 39	2.7	3.9	.4															55	55	66	51
38/ 37	.8	1.1																15	15	38	42
36/ 35	1.1	1.4	.1															21	21	18	35
34/ 33	1.0	1.0	.1															23	23	25	38
32/ 31	1.4	.8																17	17	20	25
30/ 29	.3	.1																3	3	8	9
28/ 27	.1																	1	1	1	5
26/ 25																					3
TOTAL	19.1	56.1	17.0	5.2	1.4	.1													791		790
																		790		790	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.	6257943	69923	88.5	9.355	790							
Dry Bulb	2063173	39719	50.2	9.355	791		2.4	3.8	.3			90
Wet Bulb	1913607	38249	48.4	8.848	790		3.3	1.5				90
Dew Point	1798202	37012	46.9	9.018	790		4.8	1.0				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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75			.1															1	1		
74/ 73		.1	.6	.1		.1												8	8		
72/ 71		.8	.1															7	7	5	
70/ 69		.3	.3		.1													5	5	10	12
68/ 67	.3	.8	.9	.4	.1													19	19	6	6
66/ 65		.9	.1	.5	.4													15	15	8	4
64/ 63	.1	1.8	1.6	.8	.1													35	35	17	13
62/ 61	.5	1.8	1.6	.5	.4													38	38	22	16
60/ 59	1.3	1.3	.8	.5														30	30	51	33
58/ 57	.6	4.9	1.4	.9	.1													63	63	39	36
56/ 55	1.1	4.8	1.9	.4	.3													67	67	61	60
54/ 53	2.3	5.8	1.3	.4	.1													78	78	79	63
52/ 51	.8	6.1	2.3	.3														74	74	76	64
50/ 49	.9	6.1	2.3	....														73	73	69	92
48/ 47	.6	5.2	.9	.3														55	55	71	59
46/ 45	.4	4.8	.6	.3														48	48	66	58
44/ 43	.5	3.8	.3															36	36	48	59
42/ 41	1.1	2.7	.4	.3														35	35	40	57
40/ 39	1.5	2.4	.5															35	35	30	39
38/ 37	1.4	1.3	..															21	21	38	35
36/ 35	1.1	1.0	.1															18	18	18	30
34/ 33	1.8	.3	.1															17	17	21	31
32/ 31	.8	.6																11	11	11	14
30/ 29		.1																1	1	3	3
28/ 27	.3																	2	2	3	4
26/ 25	....																				4
TOTAL	17.3	57.3	18.2	5.4	1.6	.1												792	792	792	792

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 92 F	Total
Rel. Hum.	6241736	69922	88.3	9.316	792							
Dry Bulb	2157300	40708	51.4	9.062	792		1.6	4.5	1.0			90
Wet Bulb	2000272	39226	49.5	8.526	792		1.9	2.4				90
Dew Point	1880623	37979	48.0	8.666	792		2.8	2.0				98

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

126390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
86/ 85						.1												1	1		
84/ 83					.1	.4		.1										5	5		
82/ 81					.4	.3	.1	.1										7	7		
80/ 79				.3		.3	.1	.1	.1									7	7		
78/ 77				.3	.3	.3	.1	.3										9	9		
76/ 75			.1		.5	.5	.4	.1										13	13	2	
74/ 73		.3	.1	.5	.8	.5	.5	....										21	21	11	
72/ 71		.3	.1	.1	.9	.1	.9											19	19	8	9
70/ 69		.3	.6	.4	1.2	1.0	.1											28	28	6	8
68/ 67		.5	.6	.6	.6	.4	.5	.1										27	27	20	5
66/ 65	.5	.6	1.5	1.8	1.0	.9	.1											51	51	25	20
64/ 63	.1	.8	3.0	1.8	1.0	.8	.8											64	64	33	12
62/ 61	.8	1.8	1.4	2.3	1.7	.5	.5	.1										71	71	50	29
60/ 59	.3	2.2	3.3	2.3	1.5	1.3	.1											86	87	75	45
58/ 57	.3	2.3	3.1	2.2	1.3	.8												77	77	65	57
56/ 55	.8	2.6	1.7	1.9	1.8	.8												74	74	78	69
54/ 53	.5	2.6	2.1	1.2	.9	.5												60	60	100	61
52/ 51	.6	2.4	2.2	2.3	.9	.1												67	67	68	93
50/ 49	.1	.6	1.4	.9		.1												25	25	72	47
48/ 47	.1	.6	.9	.5	.1													18	18	50	70
46/ 45	.1	.9	1.2	.6														22	22	44	49
44/ 43		.9	.5	.1	.3													14	14	31	40
42/ 41		.4	.8		.1													10	10	19	51
40/ 39		.1	..		..													1	1	12	46
38/ 37				.1														1	1	6	25
36/ 35																				1	22
34/ 33																				2	7
32/ 31																					6
30/ 29																					2
28/ 27																					2
26/ 25																					1
24/ 23																					1
22/ 21																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 2 0900-1100 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
TOTAL	4.2	20.2	24.7	20.3	15.4	9.6	4.4	1.0	.1									778	779	778	778

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤98 F	Total
Rel. Hum.	4306337	56745	72.9	14.684	778							
Dry Bulb	2810421	46329	59.5	8.417	779			15.8	7.3	2.0		90
Wet Bulb	2350451	42365	54.5	7.484	778			5.4	1.5			90
Dew Point	2025018	39118	50.3	8.651	778		1.5	2.5				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
SEP — MONTH

PAGE 1 — 1200-1800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
92/ 91										.1								1	1		
90/ 89											.1							1	1		
88/ 87							.1	.4	.1		.1							6	6		
86/ 85						.3	.8				.3							10	10		
84/ 83						.5	.1	.9		.4	.1	.1						17	17		
82/ 81						.1	.3	.4	.5	.3								12	12		
80/ 79					.1	.6	.3	.5	.3	.6								19	19		
78/ 77				.1	.4	.4	.8	.8	.5									23	23		
76/ 75			.1		.9	.4	.9	.5	.5									26	26	5	
74/ 73		.1	.4	.1	.4	1.4	1.1	1.0	.5									40	40	15	
72/ 71		.1			.6	.8	.3	.4	.3		.1							20	20	9	3
70/ 69		.3	.3	.5	.8	1.0	1.0	.6		.1								36	36	21	10
68/ 67	.1	.1	.4	.9	1.1	1.8	1.6	.8	.3									56	56	25	17
66/ 65	.5	.9	1.0	1.9	1.5	1.3	1.8	.9	.3									75	75	34	16
64/ 63		.9	.9	1.6	1.6	1.1	1.5	1.0										69	69	43	16
62/ 61		1.4	1.6	1.9	2.1	2.1	.9	.1										81	81	66	24
60/ 59	.5	.9	2.0	1.9	.6	1.8	1.0	.1										70	70	59	48
58/ 57	.1	1.3	1.4	1.5	1.8	2.0	1.0											72	73	91	44
56/ 55		1.6	.9	.5	2.0	1.0	.3											50	50	80	62
54/ 53	.1	.8	.4	1.0	1.3	.5	.3											34	34	79	67
52/ 51	.4	.8	.8	1.4	.9	.4	.1											37	37	76	70
50/ 49			.1	.4	.8	.4												13	13	55	67
48/ 47		.1	.6	.1	.3													9	9	49	53
46/ 45		.3	.5	.4		.1	.1											11	11	39	49
44/ 43			.1	.1		.1												3	3	20	40
42/ 41																				13	35
40/ 39																				0	48
38/ 37																				1	28
36/ 35																				3	30
34/ 33																					14
32/ 31																					18
30/ 29																					4
28/ 27																					2
26/ 25																					3

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	≥ 90 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 26 Oct 0-26-5 (OL A) PREVIOUS EDITIONS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726340	PHELPS-COLLINS/ALPENA MI	73-81	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 2 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
22/ 21																					2
18/ 17																					1
TOTAL	1.8	9.0	11.5	14.9	17.2	18.1	14.2	8.3	3.2	1.5	.8	.1						791	792	791	791

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥92 F	Total
Rel. Hum.	3161179	48269	61.0	16.541	791							
Dry Bulb	3313567	50711	64.0	9.175	792			30.3	17.6	6.5		90
Wet Bulb	2527575	44309	56.0	7.593	791			8.5	2.3			90
Dew Point	1999971	39073	49.4	9.408	791		3.4	3.4				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
90/ 89											.1							1	1		
88/ 87							.3	.5			....							6	6		
86/ 85						.1	.3	.3	.3		.1							11	11		
84/ 83							.5	.4	.8	.1	.1							15	15		
82/ 81							.6	.3	.3	.3	.6							16	16		
80/ 79						.5	.4	.5	.3	.9								20	20		
78/ 77			.1	.1	.5	.1	.4	.6	.3	.8	.1							24	24		
76/ 75			....	.3	.1	.3	.4	.8	.3	.1	....							17	17	4	
74/ 73		.4		.1	.4	1.1	1.1	.3	.1									28	28	10	
72/ 71		.1		.4	.5	.5	.8	.6	.5									27	28	11	3
70/ 69		.3	.3	.4	1.5	.4	.6	.9										34	34	23	7
68/ 67	.3	.1	.4	.8	.9	1.7	1.5	.6	.3									51	51	18	17
66/ 65	.3	.8	.8	.6	1.5	.9	2.0	.6	.1									60	60	30	12
64/ 63	.1	1.7	1.8	2.2	1.4	1.7	1.9	.3										86	86	43	17
62/ 61		.9	1.3	1.4	1.3	1.1	1.9	.5										66	66	68	30
60/ 59		1.0	1.8	3.1	.9	1.4	1.3	.1										75	75	49	36
58/ 57	.3	2.7	1.3	2.8	2.5	1.1	.8											90	90	85	52
56/ 55	.6	.4	1.1	.8	2.2	.9	.1											48	48	94	50
54/ 53	....	.9	.5	1.9	1.3	.8	....											42	42	80	69
52/ 51	.3	.4		.9	.9	.8	.3											27	27	69	53
50/ 49		.6	.3	.9	1.1	.3												25	25	67	68
48/ 47		.1	.3	.3														5	5	57	74
46/ 45		.3	.5	.4		.3												11	11	26	50
44/ 43						.1												1	1	26	38
42/ 41						....														20	67
40/ 39																				5	85
38/ 37																					31
36/ 35																				3	21
34/ 33																					23
32/ 31																					11
30/ 29																					4
28/ 27																					4
26/ 25																					1
22/ 21																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 2 1500-1700 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
20/ 19																					1
18/ 17																					1
TOTAL	1.8	10.6	10.3	17.2	17.0	14.0	15.5	7.3	3.1	2.2	1.1							786	787	786	786

Element (X)	Σ_X'	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤92 F	Total
Rel. Hum.	3174477	48157	61.3	16.891	786							
Dry Bulb	3294572	50096	63.7	9.146	787			28.7	15.8	6.6		90
Wet Bulb	2461673	43777	55.7	7.642	786			7.6	1.6			90
Dew Point	1981134	38500	49.1	9.231	786		2.6	3.1				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
160390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

PAGE 1 — HOURS (L. S. T.): 1800-2000

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
86/ 85						.1												1	1		
84/ 83					.3	.1	.1											4	4		
82/ 81				.1	.1		.1	.1										4	4		
80/ 79				.1		.3		.3	.3	.1								8	8		
78/ 77				.3		.3	.5	.3										10	10		
76/ 75			.1	.3	.5	.1	.4	.1	.4									15	15	4	
74/ 73			.3	.1	..	.4	.1	.5	..									11	11	5	
72/ 71		.3	.3	.4	.3	.6	.1	.3	.1									18	18	2	8
70/ 69		.5	.5	.1	.6	.4	.1											18	18	16	3
68/ 67		.3	1.3	.9	1.0	.8	.4	.1										37	37	11	9
66/ 65	.3	.6	1.4	1.3	1.3	.5	.4											45	45	23	13
64/ 63	.1	1.9	1.0	.8	.9	.3	.5	.1										44	44	31	17
62/ 61		1.9	1.6	1.8	1.9	.6	.5											66	66	48	18
60/ 59	.3	2.7	3.7	1.9	1.3	.6												82	82	52	46
58/ 57	.4	1.9	1.8	2.1	1.4	.4	.1											64	64	72	48
56/ 55	.5	2.9	1.9	3.0	2.7	.5												91	91	77	61
54/ 53	.1	2.1	2.7	2.4	.9	.1												66	66	78	56
52/ 51	....	2.1	3.2	2.0	.9	....												65	65	71	68
50/ 49	.1	1.1	1.9	1.3	.4													38	38	74	69
48/ 47	.1	.9	1.8	1.0	.3													32	32	80	66
46/ 45		1.4	.8	.5														21	21	51	48
44/ 43		1.6	.8		.3													21	21	29	61
42/ 41		.6	1.3	.3														17	17	26	60
40/ 39		.4	.....	....														5	5	18	54
38/ 37		.3	.5															8	8	13	27
36/ 35	.1	.3	.1															4	4	4	26
34/ 33																				6	12
32/ 31																					11
30/ 29																					5
28/ 27																					3
26/ 25																					1
24/ 23																					1
TOTAL	2.0	23.8	26.7	20.6	14.8	6.1	3.4	1.8	.8	.1								791	791	791	791

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4401991	57929	73.2	14.211	791							
Dry Bulb	2727844	45914	58.0	8.912	791			14.3	6.0	1.7		90
Wet Bulb	2280063	42073	53.2	7.912	791			4.3	1.0	.....		90
Dew Point	1961729	38778	49.0	8.763	791		2.4	2.3				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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 1 2100-2300 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75			.5															4	4		
74/ 73			.4	.3	.3													7	7	1	
72/ 71		.1	.5	.1	.3													8	8	4	1
70/ 69		.3	.4	....	.1	.1	.3											9	9	6	5
68/ 67		1.0	1.4	.5		.3												25	25	8	7
66/ 65		1.1	.8	.5	.6	.3	.1											27	27	15	10
64/ 63	.4	1.8	.8	.3	.5	.4												32	32	28	20
62/ 61	.1	2.1	1.0	.9	.3	.3		.1										38	38	24	24
60/ 59	.6	3.8	1.9	.8		.3	.3											60	60	42	32
58/ 57	.8	4.8	2.9	.4	.3	....	....											72	72	59	46
56/ 55	.6	4.9	2.8	.9	.8	.1												80	80	61	42
54/ 53	.6	4.0	2.3	1.4	.5													70	70	89	59
52/ 51	.4	3.2	3.5	.6														61	61	59	75
50/ 49	.9	3.0	2.3	.5	.6													58	58	64	72
48/ 47	.6	3.2	2.5	.6														55	55	76	52
46/ 45	.4	4.7	1.0	.1														49	49	54	54
44/ 43	.4	3.4	1.9	.1														46	46	76	53
42/ 41	.3	2.5	.4	.3														27	27	36	81
40/ 39		2.1	1.1															26	26	27	45
38/ 37	.1	1.3	.3															13	13	25	34
36/ 35	.6	.9	.3															14	14	19	29
34/ 33	.6	.4	....															8	8	14	27
32/ 31	.1	.4																4	4	5	13
30/ 29																				1	11
28/ 27																					1
TOTAL	7.6	48.9	28.8	8.2	4.2	1.6	.6	.1											793		793
																		793		793	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤92 F	Total
Rel. Hum.	5623159	66195	83.5	11.099	793							
Dry Bulb	2297103	42117	53.1	8.7[illegible]	793		.5	6.0	1.2			90
Wet Bulb	2071680	40004	50.4	8.228	793		.7	2.2	.1			90
Dew Point	1891157	38097	48.0	8.770	793		2.8	1.5				90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) SEP (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
92/ 91										.0								1	1		
90/ 89											.0							2	2		
88/ 87							.0	.1	.0		.0							12	12		
86/ 85						.1	.2	.0	.0		.0							23	23		
84/ 83					.0	.1	.1	.2	.1	.1	.0	.0						41	41		
82/ 81				.0	.1	.0	.1	.1	.1	.1	.1							39	39		
80/ 79				.0	.0	.2	.1	.2	.1	.2								54	54		
78/ 77			.0	.1	.1	.1	.2	.2	.1	.1	.0							66	66		
76/ 75			.1	.1	.3	.2	.3	.2	.1	.0								77	77	15	
74/ 73		.1	.3	.2	.2	.4	.4	.2	.1	...								121	121	42	
72/ 71		.3	.2	.2	.3	.3	.3	.2	.1		.0							112	113	40	24
70/ 69		.3	.4	.2	.6	.4	.3	.2		.0								147	147	98	53
68/ 67	.1	.5	.8	.6	.5	.6	.5	.2	.1									245	245	100	75
66/ 65	.3	.8	.9	1.0	.9	.5	.6	.2	.0									322	322	160	94
64/ 63	.1	1.6	1.3	1.0	.8	.6	.6	.2	..									388	388	230	116
62/ 61	.3	1.8	1.3	1.2	1.1	.6	.5	.1										427	427	337	186
60/ 59	.6	2.1	2.0	1.3	.5	.7	.3	.0										480	481	401	293
58/ 57	.7	3.1	2.0	1.4	.9	.6	.2											561	562	504	378
56/ 55	.7	3.2	1.9	1.0	1.3	.4	.0											542	542	570	443
54/ 53	.7	3.3	1.5	1.2	.6	.2	.0											482	482	632	461
52/ 51	.6	2.9	2.1	1.0	.5	.2	.0											462	463	572	578
50/ 49	.7	2.3	1.5	.5	.4	.1												350	351	518	561
48/ 47	.3	2.2	1.1	.5	.1													267	267	497	478
46/ 45	.2	2.6	.7	.3		.0	.0											241	241	385	385
44/ 43	.2	2.5	.6	.1	.1	.0												221	222	330	399
42/ 41	.4	2.0	.6	.1	.0													200	200	262	493
40/ 39	.7	1.4	.5	...	..													150	150	207	407
38/ 37	.4	.7	.1	.0														73	73	154	252
36/ 35	.5	.7	.1															85	85	92	231
34/ 33	.6	.2	.0															56	56	85	181
32/ 31	.4	.3																47	47	49	121
30/ 29	.0	.1																6	6	19	44
28/ 27	.0	...																3	3	4	26
26/ 25																					15

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	SEP

PAGE 2

HOURS (L. S. T.): ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
24/ 23																					1
22/ 21																					5
20/ 19																					1
18/ 17																					2
TOTAL	8.7	35.1	19.8	12.1	9.3	6.4	4.8	2.3	.9	.5	.2	.0						6303	6309	6303	6303

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	39125534	484930	76.9	16.979	6303							
Dry Bulb	20755456	355816	56.4	10.444	6309		6.4	107.4	49.8	16.8		720
Wet Bulb	17586047	328493	52.1	8.599	6303		8.2	33.7	6.5			720
Dew Point	19334042	305658	48.5	9.089	6303		24.6	17.4				720

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PAGE 1 — HOURS (L. S. T.) 0000-0200

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69			.1	.2		.1	.1											5	5		
68/ 67			.4															3	3		
66/ 65			.2															2	2	1	
64/ 63		.1	.1	.2														4	4	5	1
62/ 61		.1	.4	.2	.3													10	10	3	5
60/ 59	.2	.9	.1	.4	.6		.1	.1										20	20	10	6
58/ 57	.1	.5	.4	.1	.6	.1												15	15	11	9
56/ 55	.1	1.2	1.1	.5	.2		.1											27	27	8	6
54/ 53	.1	1.7	.2		.2	.1												20	20	27	14
52/ 51	.9	2.5	.6	.5	.5													40	40	37	31
50/ 49	1.1	2.0	.9	.5	.4													39	39	37	32
48/ 47	.4	1.6	1.9	.4														34	34	27	29
46/ 45	.6	4.4	2.1	.9		.1												65	65	46	29
44/ 43	.7	5.6	1.9	.2		.1												69	69	68	41
42/ 41	1.1	4.7	2.9	.5														74	74	75	68
40/ 39	1.5	5.0	2.7	.2														76	76	73	59
38/ 37	1.5	5.7	1.9	.2														75	75	82	68
36/ 35	2.2	4.6	1.5	.1														68	68	85	69
34/ 33	.2	2.6	1.1															32	32	48	91
32/ 31	2.0	4.4	1.2	.5														65	65	49	80
30/ 29	1.7	1.5	.7	.1														33	35	58	41
28/ 27	.9	1.1	.1															17	17	30	36
26/ 25	.5	.5																8	8	17	31
24/ 23		.2																2	2	6	18
22/ 21		.1																1	1	1	19
20/ 19																					9
18/ 17																					5
16/ 15																					5
14/ 13																					2
TOTAL	16.0	51.1	22.6	6.0	3.1	.6	.4	.1											806		804
																		804		804	

WET BULB TEMPERATURE DEPRESSION (F)

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	5720746	67076	83.4	12.464	804
Dry Bulb	1491361	33917	42.1	8.924	806
Wet Bulb	1338921	32123	40.0	8.312	804
Dew Point	1176854	29886	37.2	9.062	804

Mean No. of Hours with Temperature

	≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb		14.8	.9				93
Wet Bulb		18.6					93
Dew Point		28.5					93

USAFETAC FORM AW 24 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: 726590 — STATION NAME: PHELPS-COLLINS/ALPENA MI — YEARS: 73-81 — MONTH: OCT

PAGE 1 — HOURS (L. S. T.): 0300-0500

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69				.4														5	5		
68/ 67			.1			.2												3	3		
66/ 65		.1	.1		.1													3	3		
64/ 63																				6	
62/ 61		.4	.4															6	6		6
60/ 59	.1	.1	.4	.4	.1													9	9	5	4
58/ 57	.6	.9	.7		.4													21	21	14	8
56/ 55		1.9	.4	.1	.5													23	23	12	8
54/ 53	.1	2.1	.2	.1	.6													26	26	28	16
52/ 51	.4	3.0	.7	.4														36	36	23	31
50/ 49	1.2	2.2	1.1	.5	.4													44	44	45	38
48/ 47	.2	2.1	1.0	.2	.4													32	32	25	21
46/ 45	.1	4.5	.9	.4	.1													48	48	45	18
44/ 43	.6	5.6	2.1	.4	.1													71	71	52	41
42/ 41	1.2	5.3	2.5	.1														74	74	79	62
40/ 39	1.5	4.0	1.4															55	55	65	74
38/ 37	1.4	6.1	1.1															69	69	68	49
36/ 35	2.4	4.5	1.7															69	69	85	67
34/ 33	1.6	4.7	.4	.1														55	55	59	86
32/ 31	1.4	5.2	1.4	.6														69	69	54	71
30/ 29	2.6	2.1	.2	.2														42	43	62	66
28/ 27	1.5	1.6	.5															29	29	42	50
26/ 25	.4	1.2																13	13	22	26
24/ 23		.2																2	2	13	18
22/ 21	.2																	2	2	2	15
20/ 19																			1		17
18/ 17																					4
16/ 15																					2
14/ 13																					5
12/ 11																					1
TOTAL	17.7	58.0	17.4	4.0	2.7	.2												804	806	804	804

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5956407	68595	85.3	11.385	804							
Dry Bulb	1415533	32989	40.9	9.008	806		18.3	.7				93
Wet Bulb	1290048	31468	39.1	8.529	804		22.6					93
Dew Point	1151447	29507	36.7	9.238	804		31.8					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
70/ 69			.1	.1														2	2		
68/ 67				.1														1	1		
66/ 65			.4															3	3	1	
64/ 63				.1	.2													3	3	2	
62/ 61	.1	.2	.1															4	4	4	3
60/ 59		1.1	.7															15	15	2	6
58/ 57	.1	1.1	.2	.1														13	13	20	7
56/ 55	.4	1.3	.2	.4	.4													22	22	15	17
54/ 53	.2	2.6	.4	.1														27	27	16	18
52/ 51	.4	1.8	.2	.5	.1													25	25	28	28
50/ 49	.5	2.4	1.3	.5	.4													42	42	22	18
48/ 47		3.1	2.0	.5	.4													48	48	35	23
46/ 45	.5	4.4	1.8	.7	.2													63	63	52	30
44/ 43	.7	5.7	.9	.4														63	63	68	42
42/ 41	1.7	4.5	1.1	.1														61	61	77	70
40/ 39	1.8	5.0	2.1															73	73	61	64
38/ 37	1.7	7.1	1.1	.4														84	84	81	66
36/ 35	2.4	4.8	.7	.5														69	69	88	74
34/ 33	3.1	2.9	.6	.1														55	55	63	84
32/ 31	1.7	4.6	.9	.5														63	63	53	82
30/ 29	1.6	1.6	.7	.1														33	33	55	54
28/ 27	1.6	1.1	.5															26	26	32	39
26/ 25	.5	1.1																13	13	24	26
24/ 23	.5	.1																5	5	14	16
22/ 21	.4	.1																4	4	4	21
20/ 19	.1																	1	1	1	17
18/ 17																					8
14/ 13																					5
TOTAL	20.0	56.8	16.1	5.3	1.7													818	818	818	818

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	6119590	70152	85.8	11.246	818							
Dry Bulb	1431870	33470	40.9	8.738	818		16.5	.3				93
Wet Bulb	1311318	32032	39.2	8.351	818		20.8					93
Dew Point	1175255	30097	36.8	9.115	818		30.5					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
OCT — MONTH

PAGE 1 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
74/ 73				.1	.1	.1			.1									4	4		
72/ 71				.2		.1		.1										4	4		
70/ 69			.1	.1														2	2		
68/ 67			.1	.5	.2	.1	.1											9	9	1	
66/ 65			.4	.2	.1	.4	.2	.1										12	12	5	
64/ 63		.5	.2	.4	.5	.5		.4										20	20	2	3
62/ 61		1.0	.2	.4	.5	.6	.1											23	23	14	6
60/ 59		1.6	.9	.4	.9	.1	.1											32	32	15	8
58/ 57	.2	1.0	.2	.7	1.0	.5												27	27	26	24
56/ 55	.1	1.6	1.0	.7	1.1	.4	.1											41	41	26	17
54/ 53		.9	1.8	1.4	.9	.4												43	43	33	18
52/ 51	.5	1.5	2.7	1.5	1.4	.5												65	66	35	23
50/ 49	.4	1.4	3.3	1.1	1.6													63	63	57	26
48/ 47	.1	2.8	1.8	1.6	1.4													63	63	61	40
46/ 45	.5	3.2	3.1	2.5	.4													78	78	75	48
44/ 43	1.2	3.1	3.8	2.2	.6													89	89	80	67
42/ 41		2.9	3.8	1.5	.4													70	70	84	68
40/ 39	.7	2.6	2.6	.9	.1													56	56	91	65
38/ 37	.5	2.6	1.4	1.2														46	46	68	75
36/ 35	.5	1.0	.7	.6														23	23	57	70
34/ 33	.5	.5	.9	.7														21	21	27	70
32/ 31	.4	.2	1.2	.6														20	20	20	73
30/ 29		.1	.1															2	2	17	31
28/ 27		.1																1	1	17	20
26/ 25																				3	13
24/ 23																					14
22/ 21																					15
20/ 19																					8
18/ 17																					5
16/ 15																					4
14/ 13																					3
TOTAL	5.7	28.1	30.5	19.5	11.1	3.7	.7	.6	.1										815		814
																		814		814	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature: ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 92 F	Total
Rel. Hum.	4606205	60035	73.8	14.815	814							
Dry Bulb	1913931	38855	47.7	8.694	815		2.6	2.2	.5			93
Wet Bulb	1610490	35620	43.8	7.981	814		6.5	.1				93
Dew Point	1321202	31914	39.2	9.277	814		21.3					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PAGE 1 1200-1800 (HOURS L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
80/ 79						.1		.1				.2						4	4		
78/ 77						.1	.1											2	2		
76/ 75					.1	.1	.2	.2	.1		.1							8	8		
74/ 73				.2	.2	.2		.4	.1									10	10		
72/ 71				.2	.2	.2	.1		.1	.1								9	9		
70/ 69				.5	.2	.2	.4	.5	.5									19	19	1	
68/ 67			.1	.2	.6	.2	.6	.6	.4									23	23	7	
66/ 65			.2	.2	.1	.7	.2	.2	.2									17	17	6	1
64/ 63		.6	.6	.4	1.5	.9	.6	.9										44	44	11	7
62/ 61		.7	.1	.4	1.1	1.2	.7	.5										39	39	20	9
60/ 59		.6		.2	.9	.6	.7	.1										26	27	23	16
58/ 57		.9	.5	.7	2.1	1.4	.4	.1										49	49	21	19
56/ 55	.2	1.0	1.4	.9	.9	1.4	.4	.1										50	50	41	10
54/ 53		.4	2.2	2.0	1.5	.6	.5											65	65	50	17
52/ 51	.1		2.0	1.0	1.6	.9	.2											47	47	44	29
50/ 49		1.1	2.1	1.2	3.1	1.1												70	70	68	29
48/ 47		1.5	1.7	2.2	1.7	1.0												66	66	73	44
46/ 45	.4	.9	1.7	3.5	2.5	.1												73	73	65	46
44/ 43	.1	1.7	3.0	2.8	1.0	.1												71	72	63	58
42/ 41	.1	.9	1.9	1.1	.6													37	38	62	60
40/ 39	.1	1.0	1.5	.5	.2													27	27	80	64
38/ 37	.2	1.1	.4	.9	.4													24	25	67	78
36/ 35		.2	.5	1.1	.1													16	16	37	85
34/ 33	.1	.1	.2	1.0														12	12	14	63
32/ 31		.4																3	3	11	87
30/ 29																				19	36
28/ 27																				6	92
26/ 25																					24
24/ 23																					13
22/ 21																					12
20/ 19																					11
18/ 17																					2
16/ 15																					0
14/ 13																					2

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 90 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM AN 4 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT
STATION	STATION NAME	YEARS	MONTH

PAGE 2 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
1./ 11																					2
TOTAL	1.5	13.1	20.1	22.0	20.8	11.4	5.3	3.8	1.5	.1	.1	.2							813		809
																		809		809	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥30 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3426199	50991	63.0	16.208	809							
Dry Bulb	2282493	42337	52.1	9.788	813		.3	8.6	2.7	.1		93
Wet Bulb	1759982	37128	45.9	8.328	809		4.1	.9				93
Dew Point	1312526	31582	39.0	9.927	809		24.0					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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
OCT — MONTH

PAGE 1 — 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81													.1					1	1		
80/ 79								.1										1	1		
78/ 77								.1	.1									2	2		
76/ 75					.4		.1	.4										7	7		
74/ 73				.1	.2	.2	.1	.1	.2									9	9		
72/ 71					.4	.1	.2	.1	.2	.1								10	10		
70/ 69				.7	.2	.1	.1	.4	.2	.2								17	17		
68/ 67			.1	.6	.2	.4	.5	.9	.1									23	23	5	
66/ 65		.1	.9	.2	.6	.4	.5	1.1	.4									34	34	4	
64/ 63		.1	.7	.1	.6		.7	.7	.1									26	26	19	5
62/ 61		.1		1.0	1.0	.5	.5	.2										27	27	20	8
60/ 59			.4	1.2	1.5	.7	.4	.4	.1									38	38	14	14
58/ 57		.7	.6	.9	2.0	1.3	.7	.2										53	53	17	18
56/ 55	.2	.5	1.2	.9	1.6	.2	.4											41	41	35	12
54/ 53		1.0	1.5	2.1	1.5	.4	.6											57	57	56	11
52/ 51		.5	2.0	.6	1.3	1.0	.4											47	47	56	33
50/ 49		2.0	1.8	2.1	2.2	2.4	.1											87	87	59	29
48/ 47		1.5	1.5	1.6	2.4	.4												60	60	73	46
46/ 45	.4	1.3	2.1	4.0	1.5	.2												78	78	60	50
44/ 43	.1	1.6	2.4	3.4	.6	.4												69	69	64	47
42/ 41	.1	1.0	1.8	1.6	.6	.1												43	43	85	69
40/ 39	.1	1.1	1.0	1.1	.4	.1												31	32	96	52
38/ 37	.2	.2	.5	1.2	.4													21	21	60	72
36/ 35	.2	.2	.2	1.0	.9													21	21	29	66
34/ 33	.1	.4	.2	.3														10	10	23	47
32/ 31	.1	.1	.2	.2														5	5	16	73
30/ 29																				16	39
28/ 27																				10	39
26/ 25																				1	31
24/ 23																					5
22/ 21																					22
20/ 19																					11
18/ 17																					3
16/ 15																					6

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

USAFETAC FORM 0-26-5 (OL-A) PREVIOUS EDITIONS OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PAGE 2 — HOURS (L. S. T.): 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
14/ 13																					8
TOTAL	1.5	12.5	19.2	25.2	20.4	9.0	5.4	4.8	1.6	.4			.1						819		818
																		818		818	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥72 F	≥80 F	≥93 F	Total
Ref. Hum.	3459689	51425	62.9	16.660	818							
Dry Bulb	2265663	42335	51.7	9.722	819		.6	7.9	2.3	.1		93
Wet Bulb	1750267	37223	45.5	8.311	818		4.9	.6				93
Dew Point	1298068	31522	38.5	10.101	818		27.2					93

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

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

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
74/ 73						.1												1	1		
72/ 71				.1														1	1		
70/ 69			.1	.2	.1													4	4		
68/ 67			.2	.4	.1													6	6	1	
66/ 65		.1	.5	.5	.1													10	10	2	1
64/ 63		.1	.9	.1	.4	.4	.4	.1										19	19	5	1
62/ 61		.5	.6	.4	.2	.2												16	16	13	4
60/ 59		.4	.2	.5	.2	.5	.1	.1										21	21	19	11
58/ 57	.1	.9	.9	1.1	.4	.6	.2											34	34	11	18
56/ 55	.1	.9	1.3	.4	.7	.1												29	29	18	14
54/ 53	.6	1.2	1.7	2.2	.4	.5	.2											56	56	34	22
52/ 51	.7	2.6	1.7	1.3	.9	.1	.1											61	61	40	20
50/ 49	.1	2.5	1.8	1.1	.4	.2												50	50	51	38
48/ 47	....	2.9	1.2	1.3	1.1	.4												57	57	67	55
46/ 45	.4	3.3	2.6	1.8	.9													73	73	56	48
44/ 43	.2	3.8	3.8	2.0	.7													86	86	68	51
42/ 41		2.5	4.0	2.0														69	69	66	58
40/ 39	.1	2.6	5.0	.9	.1													71	71	75	61
38/ 37	.1	2.1	1.8	.5														42	42	101	55
36/ 35	.5	1.8	2.3	.7														44	44	69	56
34/ 33	.5	1.8	1.0	1.0														35	35	42	71
32/ 31		.5	.9	.4														14	14	27	99
30/ 29		.7	.6	.1														12	12	22	29
28/ 27		.1	.2															3	3	18	47
26/ 25			.1															1	1	8	32
24/ 23			....																	2	6
22/ 21		.1																1	1		11
20/ 19																				1	7
18/ 17																					8
16/ 15																					8
14/ 13																					5
TOTAL	4.2	51.9	33.7	19.4	6.7	3.2	1.1	.2											816		816
																		816		816	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	4690026	60760	74.5	14.211	816							
Dry Bulb	1811924	37776	46.3	8.800	816		3.5	1.4	.1			93
Wet Bulb	1539551	34793	42.6	8.291	816			8.9	.1			93
Dew Point	1266970	31162	38.2	9.716	816		28.7					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
OCT — MONTH

PAGE 1 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69				.4			.2											5	5		
68/ 67			.2	.2			.1											5	5		
66/ 65		.1	.1		.1													3	3	2	
64/ 63		.4		.4	.2		.1											9	9	4	
62/ 61		.2	.6	.5	.2	.1												14	14	6	5
60/ 59	.1	1.1	.1		.4			.2										16	16	9	9
58/ 57	.2	.9	1.0	.2	.2	.1												22	22	18	11
56/ 55		.7	1.1	.4	.2	.2												22	22	14	13
54/ 53	.4	1.1	.6	.7	.1	.1												25	25	28	11
52/ 51	.9	1.3	2.0	1.1	.2													45	45	28	27
50/ 49	1.6	2.9	2.6	.9	.2													67	67	37	37
48/ 47	.1	3.8	2.3	.7	.1	.1												59	59	59	36
46/ 45	.4	3.3	2.1	1.5	.1													60	60	66	45
44/ 43	.1	5.1	2.2	1.3	.4	.1												76	76	56	50
42/ 41	.6	3.4	2.9	.9														64	64	74	55
40/ 39	.9	2.9	3.2															57	57	68	67
38/ 37	.9	5.4	2.4	.1														72	72	71	56
36/ 35	1.8	2.4	1.8	.1														51	51	87	62
34/ 33	1.1	4.3	1.1	.2														55	55	60	73
32/ 31	1.3	2.9	1.8	.7														56	57	47	99
30/ 29	.2	1.2	.6	.1														18	18	38	47
28/ 27	.6	1.3																16	16	35	28
26/ 25		.1	.1															2	2	11	38
24/ 23																			1		12
22/ 21																				1	19
20/ 19		.1																1	1	1	4
18/ 17																					9
16/ 15																					6
14/ 13																					1
TOTAL	11.6	45.1	28.9	10.5	2.1	.9	.5	.2											822		820
																		820		820	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5484248	66194	80.7	13.111	820							
Dry Bulb	1617296	35712	43.4	8.948	822		10.7	1.1				93
Wet Bulb	1428822	33538	40.9	8.351	820		15.1					93
Dew Point	1232031	30855	37.6	9.312	820		29.8					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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) OCT (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81													.0					1	1		
80/ 79						.0		.0				.0						5	5		
78/ 77						.0	.0	.0	.0									4	4		
76/ 75					.1	.0	.0	.1	.0		.0							15	15		
74/ 73				.1	.1	.1	.0	.1	.1									24	24		
72/ 71				.1	.1	.1	.0	.0	.0	.0								24	24		
70/ 69			.1	.3	.1	.1	.1	.1	.1	.0								57	57	1	
68/ 67			.2	.3	.2	.1	.2	.2	.1									73	73	14	
66/ 65		.1	.4	.2	.2	.2	.1	.2	.1									84	84	21	2
64/ 63		.2	.3	.2	.4	.2	.2	.3	.0									125	125	54	17
62/ 61	.0	.4	.3	.4	.4	.3	.2	.1										139	139	80	46
60/ 59	.1	.8	.4	.4	.6	.2	.2	.1	.0									177	178	97	74
58/ 57	.2	.8	.6	.5	.8	.5	.2	.0										234	234	138	114
56/ 55	.2	1.1	1.0	.5	.7	.3	.1	.0										255	255	169	97
54/ 53	.2	1.4	1.1	1.2	.6	.3	.2											317	317	272	127
52/ 51	.5	1.6	1.5	.9	.8	.3	.1											366	367	291	217
50/ 49	.6	2.1	1.9	1.0	1.1	.5	.0											462	462	376	247
48/ 47	.1	2.4	1.7	1.1	.9	.2												419	419	420	274
46/ 45	.4	3.2	2.0	1.9	.7	.1												538	538	463	314
44/ 43	.5	4.0	2.5	1.6	.4	.1												594	595	519	397
42/ 41	.6	3.2	2.6	1.0	.2	.0												492	493	622	510
40/ 39	.8	3.0	2.4	.4	.1	.0												446	447	609	506
38/ 37	.9	3.8	1.3	.6	.1													433	434	598	519
36/ 35	1.3	2.4	1.2	.5	.1													361	361	537	519
34/ 33	.9	2.2	.7	.5														275	275	336	585
32/ 31	.8	2.3	1.0	.4														295	296	277	644
30/ 29	.8	.9	.4	.1														140	143	287	343
28/ 27	.6	.7	.2															92	92	190	291
26/ 25	.2	.4	.0															37	37	86	221
24/ 23	.1	.1																9	10	35	102
22/ 21	.1	.0																8	8	8	134
20/ 19	.0	.0																2	3	3	84
18/ 17																					46
16/ 15																					39

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

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	OCT

PAGE 2

HOURS (L. S. T.): ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
14/ 13																					31
12/ 11																					3
TOTAL	9.7	37.0	23.6	13.9	8.7	3.6	1.7	1.2	.4	.1	.0	.0	.0					6515			6503
																		6503		6503	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_s	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	39463110	495236	76.2	16.398	6503							
Dry Bulb	14230021	297391	45.6	10.027	6515		67.3	23.2	5.6	.2		744
Wet Bulb	12029399	273925	42.1	8.689	6503		101.4	1.7				744
Dew Point	9934353	246525	37.9	9.516	6503		221.7					744

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

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
70/ 69					.1													1	1		
68/ 67				.1	.1													2	2		
62/ 61						.3												2	2	3	
60/ 59					.1													1	1		
58/ 57	.1	.5																5	5	1	4
56/ 55	.3	.3	.5		.1													9	9	7	6
54/ 53	[illegible]	.6	.5	.4	.3													14	14	5	5
52/ 51	.5	1.0	.4	.1	.4													19	19	18	6
50/ 49	.1	.6	.3	.6	.1													14	14	13	12
48/ 47	.8	.9			.1	.1												15	15	18	21
46/ 45	.5	3.2	.1	.1	.3													33	33	26	14
44/ 43	.1	1.7	.6	.6														24	25	26	16
42/ 41	.5	[illegible]	1.4	.1	.1													23	23	16	27
40/ 39	1.0	2.9	1.8	.3	.3													49	49	28	15
38/ 37	.6	3.1	2.4	.6														53	53	48	27
36/ 35	1.1	3.8	2.2	.6														61	61	48	31
34/ 33	1.1	5.6	2.4	.5														76	76	74	38
32/ 31	1.5	8.3	2.2															94	94	72	66
30/ 29	2.3	4.1	1.1															59	59	107	75
28/ 27	2.4	5.2	1.8	.1														75	75	65	84
26/ 25	1.1	4.2	.4															45	45	69	61
24/ 23	.8	2.7																27	27	51	41
22/ 21	1.5	1.1	.3															23	23	25	63
20/ 19	1.9	1.0																23	23	22	74
18/ 17	1.0	[illegible]																11	11	16	37
16/ 15	.3	.4																5	5	5	25
14/ 13	.9	.4																10	10	10	8
12/ 11	.5																	4	4	6	13
10/ 9	.1																	1	1	1	6
8/ 7	.3																	2	2	2	3
6/ 5	.3																	2	2	2	3
4/ 3		.1																1	1		2
2/ 1																				1	
0/ -1																					1

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

FORM JUN 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

STATION	STATION NAME	YEARS	MONTH
7.6390	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PAGE 2 — HOURS (L. S. T.): 0000-0200

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-17 / -7																					1
TOTAL	21.8	53.0	18.4	4.3	2.0	.4												783	784	783	783

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.	5390509	64243	82.0	12.364	783							
Dry Bulb	969919	26489	33.8	9.783	784		43.9	.3				90
Wet Bulb	866122	25028	32.0	9.195	783		52.2					90
Dew Point	717880	22390	28.6	9.964	783	.2	64.7					90

FORM JUL 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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
NOV — MONTH

PAGE 1 — 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
68/ 67					.4													3	3		
64/ 63						.3												2	2		
62/ 61					.1													1	1	2	
60/ 59																				1	
58/ 57		.4																3	3		1
56/ 55	.1	.3																3	3	5	6
54/ 53		1.3																10	10	7	5
52/ 51		.9	.1		.1													9	9	10	7
50/ 49	.3	1.1	.3	.6														18	18	9	13
48/ 47	1.1	.4	.3	.3														16	16	18	12
46/ 45	.1	1.9	.6	.3	.1													24	24	12	11
44/ 43	.5	2.8	.4	.4														32	32	31	17
42/ 41	.1	2.3	1.3	.1														30	30	23	23
40/ 39	1.3	2.4	2.0	.6	.1													51	51	34	27
38/ 37	1.0	3.3	1.8	.5														52	52	48	26
36/ 35	.6	4.7	2.2	.6														64	64	44	32
34/ 33	1.4	5.1	1.4															62	63	75	46
32/ 31	2.9	6.2	2.1	.3														95	95	84	80
30/ 29	1.8	4.7	1.0															59	59	75	73
28/ 27	2.4	5.6	1.8															77	78	76	52
26/ 25	1.5	5.1	.8															58	58	75	65
24/ 23	1.1	1.8	.3															25	25	60	39
22/ 21	2.5	.6	.4															28	28	30	80
20/ 19	2.8	.9																29	29	25	73
18/ 17	.3	.5																6	6	12	40
16/ 15	.3	.3																4	4	4	19
14/ 13	.1																	1	1	2	7
12/ 11	1.0	.5																12	12	10	9
10/ 9	.5	.4																7	7	9	8
8/ 7	.1																	1	1	1	4
6/ 5	.1																	1	1	1	7
4/ 3																					3
2/ 1		.3																2	2		
0/ -1	.1																	1	1	3	

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
NOV — MONTH

PAGE 2 — 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-17 -9																					2
-21 -15																					1
TOTAL	24.5	53.7	17.2	3.7	.9	.5												786	788	786	786

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5552776	65398	83.2	11.914	786							
Dry Bulb	928986	25980	33.0	9.594	788	.1	46.5	.3				90
Wet Bulb	838126	24646	31.4	9.122	786	.3	53.5					90
Dew Point	703784	22170	28.2	9.997	786	.3	64.4					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PAGE 1 0600-0800 HOURS (L.S.T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
66/ 65				.1														1	1		
64/ 63				.3														2	2		
62/ 59		.1			.1													2	2	3	
56/ 57				.5														2	2	1	1
56/ 55		.6	.1															6	6		3
54/ 53	.3	1.0		.1														11	11	11	10
52/ 51	.4	.9	.4															13	13	15	8
50/ 49	.3	.5	.1															7	7	10	10
48/ 47	1.5	.5		.8														22	22	16	16
46/ 45	.1	1.5	.3	.1														16	16	7	11
44/ 43	.1	2.2	.8	.4														27	27	20	13
42/ 41	.8	2.7	1.1															36	36	31	24
40/ 39	.6	3.8	1.3	.5														49	49	33	15
38/ 37	1.3	4.4	1.1	.6														59	59	46	37
36/ 35	.6	3.2	1.4	.3														43	43	53	35
34/ 33	1.0	6.0	1.3	.5														69	69	52	45
32/ 31	3.8	6.9	2.0															100	100	97	82
30/ 29	2.3	4.4	1.3															63	64	80	72
28/ 27	1.6	6.5	1.4															75	75	76	51
26/ 25	1.1	5.5	.4															55	55	68	50
24/ 23	.5	2.2																21	21	50	50
22/ 21	2.9	1.9																38	38	39	69
20/ 19	2.5	.9	.1															28	28	30	79
18/ 17	.5	.6																9	9	12	38
16/ 15	.6	.3																7	7	9	17
14/ 13	.1	.3																3	4	5	16
12/ 11	.5																	4	4	4	9
10/ 9	.5	.5																8	8	5	5
8/ 7	.5	.5																6	6	7	3
6/ 5																				2	3
4/ 3	.4																	3	3	3	7
2/ 1		.1																1	1		5
0/ -1	.3																	2	2	3	1
-8/ -9																					3

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PAGE 2 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	25.0	57.9	13.1	3.9	.1													788	790	788	788

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5690771	66375	84.2	11.264	788							
Dry Bulb	907777	25651	32.5	9.743	790	.2	48.4					90
Wet Bulb	828766	24464	31.0	9.381	788	.3	56.0					90
Dew Point	705998	22130	28.1	10.335	788	.5	64.0					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PAGE 1 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
68/ 67						.1												1	1		
66/ 65				.1	.1													2	2		
64/ 63			.1	.1														2	2		
62/ 61					.3													2	2		
60/ 59			.1	.5														5	5	2	
58/ 57		.5	.5	.4														11	11	3	1
56/ 55	.3	.9	.9	.5	.4	.5												19	19	11	7
54/ 53	.3	.5	.5	.4	.1													14	14	17	8
52/ 51	.4	.1	.4	.4	.5													14	14	11	13
50/ 49	.1	.4	1.0	.5	.3													18	18	12	11
48/ 47	1.1	.9	1.3	.4	.3	.1												32	32	21	19
46/ 45	.3	1.7	1.9	.5	.1													35	35	25	16
44/ 43	...	1.9	1.0	1.1	.1													35	35	35	15
42/ 41	.4	2.8	2.4	1.4														55	55	38	28
40/ 39	.8	2.4	2.9	1.3	.1													59	59	51	37
38/ 37	1.1	3.4	2.6	1.5														68	68	55	38
36/ 35	.9	2.6	2.2	1.0														52	52	68	43
34/ 33	1.7	4.0	3.4	.4														74	74	66	48
32/ 31	2.4	5.5	3.5	.1														89	89	78	95
30/ 29	.8	4.5	2.0	.1														58	59	88	49
28/ 27	.4	3.4	1.4															41	41	62	49
26/ 25	.8	2.6	.4															29	29	50	80
24/ 23	.5	.8	.3															12	12	31	43
22/ 21	1.3	.6	.1															16	16	14	55
20/ 19	1.9	1.0	.1															19	19	16	54
18/ 17	.1	.8																7	7	9	28
16/ 15	.1	.4																4	4	7	15
14/ 13	.3	.3																4	4	5	9
12/ 11	.1	.1																2	2	3	7
10/ 9	.3	.3																4	4	5	12
8/ 7	...	.1																1	1		3
6/ 5																				1	
4/ 3		.1																1	1	1	2
2/ 1																					2

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 90 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

FORM 26-04 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

76390	PHELPS-COLLINS/ALPENA MI	73-81	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 2 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-1 / -5																					1
-4 / -5																					1
TOTAL	15.6	42.5	28.5	10.6	2.5	.5												783	784	783	783

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4965401	61527	78.6	12.928	783							
Dry Bulb	1114022	28526	36.4	9.858	784		33.1	.1				90
Wet Bulb	971314	26626	34.0	9.180	783		42.5					90
Dew Point	787505	23537	30.1	10.117	783	.2	57.6					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
NOV — MONTH

PAGE 1 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
76/ 75								.1										1	1		
74/ 73							.1											1	1		
72/ 71									.1									1	1		
70/ 69				.1	.1	.1	.3	.1										6	6		
68/ 65			.1		.3		.1	.3	.1									7	7		
66/ 63				.5	.3	.3	.4		.1									10	10	1	
62/ 61		.1		.3	1.0	.3	.5		...									17	17	5	1
60/ 59		.1		.6	.3	.4	.1	.4										15	15	2	3
58/ 57		.4	.3	.6	.5	.4	.3	.1										20	20	7	1
56/ 55	.1	.3	.1	.4	.8	.8	.4	.1										23	23	14	3
54/ 53			.1	.1	.6	.8	.1	.1										15	15	17	10
52/ 51	.5	.1	.1	.5	1.4	.4	.3	...										24	24	20	4
50/ 49		.9	.4	.4	1.0	.5												25	25	17	14
48/ 47	.5	1.3	.6	1.3	1.4	.4												43	43	26	17
46/ 45	.3	.9	.8	.9	1.3	.1												33	33	35	26
44/ 43		1.0	1.9	1.0	1.2													40	40	39	12
42/ 41		1.8	2.2	2.2	1.2													57	57	36	15
40/ 39	1.0	1.5	2.4	2.8	.5													65	65	61	43
38/ 37	.4	2.9	1.0	3.3														60	60	60	39
36/ 35	.8	1.3	3.5	1.8														57	57	67	57
34/ 33	.4	2.2	5.1	.9														67	67	66	36
32/ 31	.8	3.7	4.4	.9														76	76	70	74
30/ 29	.5	2.6	3.3															50	50	93	48
28/ 27	.4	.9	1.2															19	19	54	39
26/ 25	.6	.5	.6															14	14	45	71
24/ 23	.3	.4	.3															7	7	11	62
22/ 21	.4	.4	.3															8	8	11	65
20/ 19	.3	.8																8	9	6	50
18/ 17	.3	.3																4	4	9	30
16/ 15	...	.6																5	5	2	13
14/ 13		.1																1	1	4	10
12/ 11		.1																1	1	1	3
10/ 9																				1	6
8/ 7																					3

Element (X)	$\Sigma x'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 STATION — PHELPS-COLLINS/ALPENA MI STATION NAME — 73-81 YEARS — NOV MONTH

PAGE 2 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
6/ 5																					3
4/ 5																					2
TOTAL	7.2	25.3	28.7	18.5	11.8	4.4	2.6	1.3	.4									780	781	780	780

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3877923	53489	68.6	16.414	780							
Dry Bulb	1362546	31500	40.3	10.864	781		22.4	1.0	.2			90
Wet Bulb	1085512	28216	36.2	9.126	780		35.4					90
Dew Point	780402	23452	30.1	9.830	780		57.6					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PAGE 1 — HOURS (L. S. T.): 1500-1700

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75								.1										1	1		
74/ 73							.1	.1		.1								3	3		
72/ 69					.3													2	2		
68/ 67									.3									2	2		
66/ 65			.1		.1				.1	.3								5	5		
64/ 63				.1	.4	.1		.5	.1									8	8	1	
62/ 61			.1	.3	.3	.1	.6	.4										14	14	4	
60/ 59	.1	.3		.3	.5	.1	.1											11	11	4	3
58/ 57	.4		.3	.1	.3	.4	.4		.3									16	16	6	6
56/ 55		.1	.5	.6	.4	.4	.1	.1										16	16	7	1
54/ 53		.8	.1	.3	.4	.8		.1										19	19	9	4
52/ 51	.3	.5	.1	.4	1.4	.8	.4											30	30	20	9
50/ 49		.8	.3	1.0	.9	.4	.3											28	28	25	18
48/ 47	.8	1.0	.5	.9	1.0	.4												36	36	24	13
46/ 45	.4	1.3	.8	1.5	.6	.3												38	38	32	12
44/ 43	.4	1.5	.5	1.8	.8	.4												40	40	43	23
42/ 41		2.0	1.4	2.3	1.5	.1												58	58	42	15
40/ 39	1.3	1.9	2.3	1.9	1.0	.1												67	67	56	32
38/ 37	.3	2.2	1.8	2.6	.3													55	55	46	41
36/ 35	1.1	2.0	3.2	1.9	.1													66	67	78	54
34/ 33	.1	2.6	4.0	1.4	.1													64	64	71	45
32/ 31	.8	3.3	4.5	1.7														79	79	65	67
30/ 29	.6	2.9	3.7	.9														54	54	93	47
28/ 27	.3	.8	1.9	.1														24	24	50	49
26/ 25		.4	.4															6	6	54	83
24/ 23	.8	.8																12	12	22	47
22/ 21	.6	.1	.3															8	8	8	63
20/ 19	.3	.4	.3															7	7	6	59
18/ 17		.9	.1															8	9	6	36
16/ 15		.5																4	4	6	24
14/ 13		.3																2	2	3	12
12/ 11		.1																1	1	2	6
10/ 9																				1	5
8/ 7																					2

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												

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PAGE 2 1500-1700 (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
/ 5																					4
4/ 5																					3
-./ -3																					1
TOTAL	8.4	26.5	26.7	19.4	10.3	4.3	2.0	1.1	.8	.4									786		784
																		784		784	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3945604	53894	68.7	17.537	784							
Dry Bulb	1328966	31232	39.7	10.585	786		23.6	.9	.5			90
Wet Bulb	1060247	27953	35.7	9.013	784		36.3					90
Dew Point	760069	23087	29.4	10.121	784	.1	58.3					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

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

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
62/ 61		.3	.1	.1		.1		.1										6	6		
60/ 59		.5			.1	.1												6	6	4	3
59/ 57	.6	...	.3	.3			.1											10	10	9	7
57/ 55	.1	.1	.1	.3		.1												6	6	2	4
54/ 53	.3	.6	.3		.1	.3												12	12	6	4
52/ 51	.1	.1	.6		.1	.3												10	10	10	1
50/ 49	.3	.5	.4	.5	.1	.4												17	17	9	11
48/ 47	.9	1.3	.1	.6														23	23	18	15
46/ 45	1.0	2.3	.4	.6	.3	.1												37	37	33	21
44/ 43	.4	2.4	.9	.8		.1												36	36	27	21
42/ 41	.3	2.0	2.8	.8	.1													47	47	28	20
40/ 39	.8	2.4	1.7	1.1														47	47	42	27
38/ 37	.9	2.2	3.4	1.7	.3													66	66	51	30
36/ 35	.8	3.7	5.0	.6														79	79	46	31
34/ 33	1.0	4.2	3.6	.8														75	75	85	49
32/ 31	.6	6.0	3.8	.1														83	83	89	50
30/ 29	1.8	3.7	4.1	.1														76	76	98	72
28/ 27	.6	4.3	1.3															49	49	64	81
26/ 25	.4	2.7	1.1															33	33	66	72
24/ 23	.3	.9	.3															11	11	32	31
22/ 21	1.3	.3	...															12	12	21	68
20/ 19	1.1	.5	.1															14	14	12	70
18/ 17	1.1	.5	.3															15	15	13	39
16/ 15	.3	.1																3	3	6	29
14/ 13	.1	.3																3	3	4	6
12/ 11	.4	.3																5	5	5	7
10/ 9	...	.3																2	2	2	3
8/ 7		.4																3	3	2	3
6/ 5																				2	3
4/ 3																					2
2/ 1																					3
-0/ -9																					3
TOTAL	15.4	42.7	30.5	8.4	1.1	1.5	.1	.1											786		786
																		786		786	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4916469	61163	77.8	14.144	786							
Dry Bulb	1056392	27858	35.4	9.377	786		35.4					90
Wet Bulb	920893	25981	33.1	8.894	786		47.6					90
Dew Point	734439	22653	28.8	10.193	786	.3	62.1					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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
NOV — MONTH

PAGE 1 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible] / 59	.5	.5			.1													5	5	3	3
56 / 57	.5	.5	.1	.1	.5	.1												11	11	5	5
54 / 55	.3	.6	.4		.1	.3												13	13	7	7
52 / 53	.3	.1	.3			.1												6	6	6	3
50 / 51	.4	.6	.1			.3												11	11	12	5
48 / 49		.8	.3		.1													9	9	8	9
46 / 47	.6	1.0	.1	.3	.1													17	17	14	13
44 / 45	.4	2.5	1.0	.5	.5													35	35	16	16
42 / 43	.9	1.0	1.0	.3														25	26	28	11
40 / 41	.8	1.0	1.5	.5	.1	.3												33	33	27	27
38 / 39	1.6	2.5	1.6	.3														48	48	33	27
36 / 37	.3	2.7	2.8	1.1														54	55	46	15
34 / 35	1.0	4.7	4.1	.5														81	81	40	42
32 / 33	1.0	4.3	3.7	.6														76	76	93	35
30 / 31	.9	7.2	3.7															93	93	76	69
28 / 29	2.4	3.4	2.5	.3														68	68	103	76
26 / 27	1.8	4.7	1.6															64	64	70	66
24 / 25	.9	5.2	.3															50	50	73	86
22 / 23	.3	1.4																13	13	45	33
20 / 21	1.8	[illegible]																17	17	22	58
18 / 19	1.9	1.1																24	24	21	90
16 / 17	1.3	.3	.1															13	13	15	27
14 / 15	.3	.3																4	4	4	32
12 / 13	.5	.3																6	6	7	8
10 / 11	.6	.1																6	6	8	10
8 / [illegible]	.1	[illegible]																1	1	1	4
[illegible] / 7		.3																2	2		3
4 / 5	.1	.5																5	5	5	2
2 / 3																				2	2
0 / 1																					1
[illegible] / -1																					2
-2 / -3																					2
-4 / -5																					1

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM AW 94 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
NOV — MONTH

PAGE 2 — 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	21.0	47.2	25.2	4.2	1.4	1.0												790	792	790	790

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_n	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5316921	64005	81.0	12.900	790							
Dry Bulb	981178	26844	33.9	9.496	792		41.6					90
Wet Bulb	870627	25231	31.9	9.063	790		51.5					90
Dew Point	715669	22411	28.4	10.064	790	.6	65.2					90

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

14639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) NOV (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75								.0										2	2		
74/ 73							.0	.0		.0								4	4		
72/ 71									.0									1	1		
70/ 69				.0	.1	.0	.0	.0										9	9		
68/ 67				.0	.1	.0			.0									8	8		
66/ 65			.0	.0	.1		.0	.0	.0	.0								15	15		
64/ 63			.0	.1	.1	.1	.0	.0	.0									24	24	2	
62/ 61		.0	.0	.1	.2	.1	.1	.1										42	42	14	1
60/ 59	.0	.2	.0	.2	.2	.1	.0	.0										45	45	19	12
58/ 57	.2	.3	.2	.2	.1	.1	.1	.0	.0									78	78	32	26
56/ 55	.1	.4	.2	.2	.2	.2	.1	.0										95	95	55	37
54/ 53	.1	.6	.2	.2	.2	.2	.0	.0										101	101	76	45
52/ 51	.3	.5	.3	.2	.5	.2	.1											130	130	116	53
50/ 49	.1	.7	.4	.5	.3	.2	.0											136	136	103	98
48/ 47	.9	.9	.4	.6	.4	.1												204	204	155	126
46/ 45	.4	1.9	.7	.5	.4	.1												251	251	186	127
44/ 43	.3	1.8	.9	.8	.3	.1												257	259	247	126
42/ 41	.4	1.9	1.8	.9	.4	.0												339	339	241	179
40/ 39	1.1	2.5	2.0	1.1	.3	.0												435	435	338	223
38/ 37	.7	3.0	2.1	1.5	.1													467	468	400	253
36/ 35	.9	3.2	2.9	.9	.0													503	504	444	325
34/ 33	1.0	4.2	3.1	.6	.0													563	564	582	342
32/ 31	1.7	5.9	3.3	.4														709	709	631	583
30/ 29	1.6	3.7	2.4	.1														487	489	737	512
28/ 27	1.2	3.9	1.5	.0														424	425	517	491
26/ 25	.8	3.5	.5															290	290	500	568
24/ 23	.6	1.4	.1															128	128	302	346
22/ 21	1.5	.7	.2															150	150	170	521
20/ 19	1.5	.8	.1															152	153	138	549
18/ 17	.6	.5	.1															73	74	92	271
16/ 15	.2	.4																36	36	43	174
14/ 13	.3	.2																30	31	40	76
12/ 11	.4	.2																35	35	39	64
10/ 9	.2	.2																23	23	25	49

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
72639	PHELPS-COLLINS/ALPENA MI	73-81	NOV

PAGE 2

HOURS (L. S. T.): ALL

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
9/ 7	.1	.2																15	15	12	24
7/ 5	.1	.1																8	8	13	25
5/ 3	.0	.0																5	5	6	23
3/ 1		.0																3	3	1	11
1/ -1	.0																	3	3	6	5
-1/ -3																					3
-3/ -5																					5
-5/ -7																					1
-7/ -9																					5
-9/ -13																					1
TOTAL	17.4	43.6	23.5	9.1	3.7	1.5	.6	.3	.1	.0								6280	6291	6280	6280

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	39656374	490094	78.0	14.981	6280							
Dry Bulb	8649786	224080	35.6	10.307	6291	.3	294.9	2.7	.7			720
Wet Bulb	7441667	208145	33.1	9.298	6280	.7	375.1					720
Dew Point	5905806	181838	29.0	10.101	6280	2.3	493.8					720

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

72639 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PAGE 1 0000-0200 (HOURS (L. S. T.))

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
5 / 44	.3	.1																3	3	3	3
-4 / 43	..	.4																3	3	1	
-2 / 41			.1															1	1	2	3
4 / 39	.1	.5	.5															9	9	1	1
3 / 37	.8	1.0	.5															18	18	13	5
3 / 35	1.8	1.0	1.8															36	36	26	17
3 / 33	1.4	5.4	1.1															63	63	33	19
-2 / 31	.9	6.4	2.0	.4														77	77	61	37
3 / 29	1.5	5.4	1.6															68	71	64	46
2 / 27	.9	5.3	1.3															59	60	76	54
2 / 25	1.4	6.0	.1															60	60	67	52
2 / 23	1.0	3.8	.6															43	43	65	38
-2 / 21	2.6	4.4																56	56	62	58
/ 19	2.4	4.4	.4															57	58	44	86
1 / 17	.8	3.6	.1															36	36	45	62
1 / 15	1.4	1.9																26	26	33	46
1 / 13	2.3	3.0																42	43	37	46
1 / 11	2.0	1.1																25	25	34	36
/ 9	2.0	2.1																33	33	2o	37
/ 7	1.1	1.6																22	22	31	26
/ 5	1.0	.9																15	15	16	19
/ 3	.9	.4																10	10	10	25
/ 1	.5	.9																11	12	11	29
/ -1	.5																	5	8	7	10
-2 / -3	.5																	6	6	6	7
-2 / -5	.1																	1	1	1	7
-2 / -7	.8																	6	6	6	4
-2 / -9	.3																	2	2	2	7
-1 / -11	.1																	1	1	1	3
-1 / -13																					2
-1 / -15	.1																	1	1	1	6
-1 / -17	..																				3
-1 / -19																					1

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 2 — 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	29.7	59.7	10.2	.4														795	805	795	795

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5401740	65022	81.8	10.266	795							
Dry Bulb	496867	18167	22.6	10.347	805	2.9	77.6					93
Wet Bulb	446873	17121	21.5	9.921	795	2.8	83.8					93
Dew Point	347994	14150	17.8	11.004	795	5.8	87.4					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390	PHELPS-COLLINS/ALPENA MI	73-81	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
52/ 51		.1																1	1		
50/ 49		.3																2	2	3	3
48/ 45		.3																2	2		
44/ 43		.3																2	2	3	3
42/ 41																				1	
40/ 39																					1
38/ 37	.5	1.9																19	19	6	2
36/ 35	1.0	.9	1.8															29	29	21	11
34/ 33	1.3	5.2	1.3															61	61	27	21
32/ 31	.5	6.8	1.5	.4														73	74	66	25
30/ 29	2.1	6.3	1.4															78	79	70	42
28/ 27	1.1	5.3	.3															53	54	79	70
26/ 25	1.8	5.8	.3															62	62	62	52
24/ 23	1.3	4.7																47	47	76	35
22/ 21	2.4	4.2	.3															54	55	54	65
20/ 19	2.6	3.4	.4															51	51	45	82
18/ 17	1.6	2.6																34	34	40	60
16/ 15	1.8	3.0																38	38	42	54
14/ 13	1.9	3.0	.3															41	41	32	37
12/ 11	2.3	1.3																28	28	41	33
10/ 9	1.1	1.4																20	20	17	34
8/ 7	1.6	1.5																25	26	28	33
6/ 5	.9	1.5																19	19	23	20
4/ 3	.6	1.3																15	15	11	22
2/ 1	1.0	.1																9	9	16	18
0/ -1	1.4																	11	11	11	15
-2/ -3	.9																	7	7	7	13
-4/ -5	.5																	4	4	4	11
-6/ -7	.3																	2	2	2	6
-8/ -9	.5																	4	4	4	10
-10/-11	.3																	2	2	2	5
-12/-13																					5
-14/-15	.3																	2	2	2	4
-16/-17	...																				1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PAGE 2 0300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-1 / -19																					2
TOTAL	31.4	60.9	7.3	.4															800		795
																		795		795	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5450377	65327	82.2	10.181	795							
Dry Bulb	475279	17578	22.0	10.557	800	3.7	79.5					93
Wet Bulb	430341	16623	20.9	10.210	795	3.7	85.9					93
Dew Point	335973	13699	17.2	11.218	795	8.4	88.2					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 1 — HOURS (L. S. T.) 0600-0800

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
27 / 51		.4																3	3	2	
57 / 49																				1	3
47 / 45		.4																3	3	1	
47 / 43		.1	.1															2	2	2	1
47 / 41		.1																1	1	1	2
47 / 39		.2																2	2	3	2
37 / 37	.6	.7																11	11	6	4
37 / 35	.9	1.5	.9															26	26	17	12
37 / 33	1.6	5.9	.4															64	64	28	17
37 / 31	.5	7.5	2.5	.4														87	87	67	36
37 / 29	1.3	4.7	1.3															68	61	74	52
27 / 27	2.1	4.8	.9															63	63	73	49
27 / 25	2.1	6.5	.6															75	75	69	67
27 / 23	2.0	3.1																41	41	78	39
27 / 21	2.9	3.6																53	54	60	67
27 / 19	3.4	2.6	.2															51	53	47	76
17 / 17	2.0	2.1	.1															34	34	33	63
17 / 15	1.1	4.9	.1															50	50	38	47
17 / 13	2.3	2.9																43	43	49	30
17 / 11	1.3	1.2	.1															22	22	36	47
17 / 9	1.2	1.8																25	25	22	40
17 / 7	1.8	1.2																25	25	27	25
17 / 5	.9	.7																13	13	18	20
17 / 3	.9	.9																14	14	16	22
17 / 1	.7	.6																11	12	10	19
17 / -1	1.0	.1																9	9	9	19
-17 / -3	.5	.1																5	5	6	10
-17 / -5	.7	.2																9	9	8	8
-17 / -7	.1																	1	1	2	7
-17 / -9	.5																	4	4	4	5
-17 / -11	.4																	3	3	3	9
-17 / -13	.1																	1	1	1	4
-17 / -15	.2																	2	2	2	3
-17 / -17	.2																	2	2	2	6

Element (X)	$\Sigma X'$	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												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PAGE 2 — 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-17/-19																					4
TOTAL	33.6	58.9	7.1	.4														815	820	815	815

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3095001	67591	82.9	10.485	815							
Dry Bulb	484998	17884	21.8	10.777	820	4.1	80.3					93
Wet Bulb	442831	16979	20.8	10.463	815	4.2	86.0					93
Dew Point	353067	14107	17.3	11.566	815	8.6	88.3					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

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 1 — 0900-1100 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]/ 53		.2		.1														3	3	1	1
[illegible]/ 51		.1																1	1	1	1
[illegible]/ 49			.1															1	1	1	1
[illegible]/ 47																				2	
[illegible]/ 45		.2																2	2		
[illegible]/ 43			.2															2	2	2	2
[illegible]/ 41		.4	.2															5	5	1	2
[illegible]/ 39		.1	.1	.1														3	3	6	3
[illegible]/ 37	1.5	1.4	.5															27	27	13	7
[illegible]/ 35	[illegible]	2.4	1.7	.1														40	40	21	19
34/ 33	1.6	4.0	1.2	.2														57	57	49	21
[illegible]/ 31	1.2	6.5	3.5	.4														93	93	54	50
[illegible]/ 29	1.5	5.7	1.2															68	69	86	25
[illegible]/ 27	1.9	4.6	.7															58	58	81	51
[illegible]/ 25	1.1	5.6	1.1															68	69	61	81
[illegible]/ 23	2.2	3.5	.2															48	48	73	56
[illegible]/ 21	3.2	2.7	.4															51	52	56	70
[illegible]/ 19	3.0	4.0																56	56	54	67
18/ 17	1.1	3.5	.2															39	39	41	62
16/ 15	1.6	3.9	.1															45	45	45	45
14/ 13	1.9	1.9																30	31	38	48
12/ 11	1.5	2.4	.1															32	32	31	34
11/ 9	.7	1.1	.1															16	16	19	35
[illegible]/ 7	.7	1.6																19	19	20	22
[illegible]/ 5	.2	.7																8	8	13	18
[illegible]/ 3	.7	.4																9	9	11	15
[illegible]/ 1	.2	.4																5	5	4	19
[illegible]/ -1	.0	[illegible]																5	5	7	14
[illegible]/ -3	.4																	3	3	3	11
-4/ -5	.6																	5	5	5	5
-6/ -7	.1																	1	1	1	7
-8/ -9	.2																	2	2	2	6
-10/ -11	.1																	1	1	1	4
-12/ -13	.1																	1	1	1	2

Element (X)	Σx^2	Σx	$\bar{x}$	σ_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												

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

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PAGE 2 0900-1100 (HOURS (L.S.T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-14/-15																					2
-16/-17																					1
-18/-19																					1
TOTAL	29.7	57.2	12.1	1.0															808		804
																		804		804	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5419594	65408	81.4	11.072	804							
Dry Bulb	535839	19235	23.8	9.827	808	2.1	76.8					93
Wet Bulb	483469	18179	22.6	9.497	804	2.3	81.8					93
Dew Point	376170	15092	18.8	10.755	804	6.1	86.9					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 1 — 1200-1400 HOURS L.S.T.

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
62/ 61				.1														1	1		
60/ 59			.1															1	1		
56/ 55		.1																1	1	2	
54/ 53				.4														3	3	1	2
52/ 51		.2																2	2		1
50/ 49			.1															1	1	2	1
48/ 47				.1														1	1	4	1
46/ 45			.1	.1	.1													3	3		1
44/ 43			.2	.2														4	4		2
42/ 41	.2	.1	.6	.6	.1	.1												15	15	5	4
40/ 39	.5	.5	.6	.9														20	20	10	3
38/ 37	1.1	2.3	.7	.7	.5													44	44	23	11
36/ 35	.7	3.6	2.8	.7														64	64	34	9
34/ 33	.9	4.1	4.1	.4														76	76	60	38
32/ 31	.6	5.9	3.7	.9														90	90	82	42
30/ 29	.9	4.3	2.2															60	60	90	33
28/ 27	1.4	4.9	3.0															75	75	72	69
26/ 25	1.1	4.8	2.0															64	64	80	83
24/ 23	.9	2.0	1.1															32	32	67	45
22/ 21	.9	4.8	2.1															65	65	48	55
20/ 19	.4	7.7	.9															73	73	57	75
18/ 17		2.5	1.6															33	33	59	52
16/ 15	.1	2.3	.5															24	24	28	59
14/ 13	.1	2.2	.2															21	21	31	53
12/ 11	.1	1.6																14	14	18	44
10/ 9	.1	1.5																12	12	18	30
8/ 7		.9																7	7	9	20
6/ 5		.7																6	6	5	20
4/ 3		.1																1	1	5	13
2/ 1		.2																2	2	2	21
0/ -1																				1	7
-2/ -3																					11
-4/ -5																					2
-6/ -7																					4

WET BULB TEMPERATURE DEPRESSION (F)

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.
Rel. Hum.					
Dry Bulb					
Wet Bulb					
Dew Point					

Mean No. of Hours with Temperature

	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.							
Dry Bulb							
Wet Bulb							
Dew Point							

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726340	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PAGE 2 — HOURS (L. S. T.): 1200-1400

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-11/-9																					1
-13/-11																					3
TOTAL	.085	.420	.7	3.2	.7	.1												813	813	813	813

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total
Rel. Hum.	4635631	60521	74.4	12.670	813							
Dry Bulb	666800	22196	27.3	8.655	813		66.0					93
Wet Bulb	572762	20502	25.2	8.286	813	.1	76.9					93
Dew Point	405923	16225	20.0	10.057	813	3.2	84.6					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726590	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PAGE 1 — HOURS (L. S. T.): 1500-1700

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
55/ 51			.4															5	5		
54/ 53																				3	
52/ 51		.1	.4															4	4		1
50/ 49		.1																1	1	1	2
48/ 47		.1	.1	.4														5	5	4	1
46/ 45			.2		.4													5	5	1	2
44/ 43	.1	.4		.1	.1													6	6	3	4
42/ 41	.2	.2	.4	.7		.2												15	15	10	6
40/ 39	.5	.9	.5	.6														20	20	7	5
38/ 37	.4	2.0	1.1	.9	.9													42	42	22	7
36/ 35	.1	3.2	3.1	.4														55	55	28	13
34/ 33	.9	4.5	4.0	.6	.1													81	81	62	19
32/ 31	1.1	4.8	3.8	.9														86	86	73	50
30/ 29	1.6	4.0	4.3															80	81	94	53
28/ 27	.6	4.1	2.2	.1														57	57	77	57
26/ 25	.5	3.2	2.2															48	48	73	56
24/ 23	.4	3.2	1.6															42	42	54	47
22/ 21	.9	3.1	1.1															57	57	56	47
20/ 19	.7	1.2	1.0															72	72	50	74
18/ 17	.6	3.1	.4															53	53	68	59
16/ 15		3.0	1.2															34	34	28	67
14/ 13	.2	2.0	.2															20	20	35	53
12/ 11		1.2																10	10	16	35
10/ 9	.4	1.2																13	13	18	45
8/ 7		.9																7	7	7	27
6/ 5	.1	.7																7	7	8	9
4/ 3	.1	.1																2	2	7	13
2/ 1		.2																2	2	2	21
0/ -1																					17
-2/ -3																					5
-4/ -5																					3
-6/ -7																					6
-8/ -9																					2
-10/ -11																					1

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Ref. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390	PHELPS-COLLINS/ALPENA MI	73-81	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 2 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	9.5	55.6	28.4	4.7	1.5	.2												807	808	807	807

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4471469	59173	73.3	12.828	807							
Dry Bulb	664616	22044	27.3	8.850	808		65.7					93
Wet Bulb	565200	20250	25.1	8.415	807		76.8					93
Dew Point	392038	15780	19.6	10.177	807	3.9	86.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 1 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	WET BULB TEMPERATURE DEPRESSION (F)																				
52/ 51		.1																1	1		
50/ 47		.2	.1															3	3	2	
48/ 47		.2	.2															4	4	3	3
48/ 45		.1	.1															2	2	1	2
44/ 43	.1	.2	.1															4	4	6	2
42/ 41		.6	.2															7	7	4	4
40/ 39	.1	.5	.6	.4														18	18	11	10
39/ 37	.1	1.5	.6	.2	.2													27	27	12	11
36/ 35	1.1	2.7	1.2		.1													42	42	28	15
34/ 33	.7	5.9	2.0	.1														71	71	49	9
32/ 31	1.8	5.8	3.1	.4														90	91	71	59
30/ 29	1.7	5.1	1.4															66	67	81	54
28/ 27	1.8	4.8	1.5															64	65	76	55
26/ 25	.9	4.7	1.0															55	55	61	63
24/ 23	.5	2.6	.7															31	31	54	29
22/ 21	1.5	4.1	1.0															53	53	46	46
20/ 19	.9	6.9	.1															64	64	49	61
18/ 17		3.7	.2															32	32	52	58
16/ 15	1.5	4.3																47	47	51	49
14/ 13	1.8	3.2	.2															43	43	40	60
12/ 11	1.1	2.5																29	29	36	48
10/ 9	.5	.9																11	11	25	42
8/ 7	.6	1.5																17	17	12	27
6/ 5	.2	1.1																11	11	15	21
4/ 3		.9																7	7	9	25
2/ 1	.2	.4																5	5	6	17
0/ -1	.5																	4	4	6	9
-2/ -3	.4																	3	3	3	12
-4/ -5	.1																	1	1	1	6
-6/ -7	.1																	1	1	1	8
-8/ -9																					5
-10/ -11																					1
TOTAL	19.7	64.2	14.5	1.1	.4													811	814	811	811

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5165545	64055	79.0	11.456	811							
Dry Bulb	573144	20110	24.7	9.689	814	1.0	72.5					93
Wet Bulb	508673	18827	23.2	9.403	811	1.3	79.7					93
Dew Point	383386	15334	18.9	10.742	811	4.7	86.6					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
726390	PHELPS-COLLINS/ALPENA MI	73-81	DEC

PAGE 1 — HOURS (L. S. T.) 2100-2300

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
52/ 51		.1																1	1		
5[illegible]/ 49		.4																3	3	3	2
4[illegible]/ 47		.1																1	1	1	2
4[illegible]/ 45																				1	1
[illegible]4/ 43		.1																1	1		
[illegible]2/ 41	.1	.9	.5	.1														13	13	3	2
4[illegible]/ 39	.2	.7	.4	.1														12	12	10	4
3[illegible]/ 37	1.0	.4	.6															16	16	17	9
[illegible]/ 35	1.4	2.2	1.2	.1														40	40	26	16
3[illegible]/ 33	1.0	5.0	2.0															64	65	36	24
[illegible]2/ 31	1.5	9.0	2.0															100	100	70	48
[illegible]/ 29	[illegible].9	5.1	1.5															60	62	81	42
2[illegible]/ 27	1.6	5.0	1.1															62	62	77	56
2[illegible]/ 25	.9	3.9	1.0															46	47	54	70
2[illegible]/ 23	.4	4.7	.4															44	44	53	46
[illegible]2/ 21	1.6	5.2	.6															60	60	73	33
2[illegible]/ 19	1.9	4.9																54	56	41	66
1[illegible]/ 17	[illegible].6	2.1																22	22	46	67
1[illegible]/ 15	1.7	3.7	.1															45	45	32	43
1[illegible]/ 13	1.2	2.7	.1															33	33	30	55
1[illegible]/ 11	1.2	3.4																37	37	37	39
1[illegible]/ 9	1.2	2.1																27	27	41	26
[illegible]/ 7	1.1	1.0																17	18	20	31
[illegible]/ 5	[illegible].5	[illegible].6																9	10	14	29
[illegible]/ 3	.6	.7																11	11	12	21
[illegible]/ 1	.1	.4																4	4	2	24
[illegible]/ -1	1.0	.2																10	10	10	11
-[illegible]/ -3	.5																	4	4	6	6
[illegible]/ -5	.2																	2	2	2	6
-[illegible]/ -7	[illegible].6																	5	5	5	4
-[illegible]/ -9	.1																	1	1	1	9
-1[illegible]/-11																					9
-1[illegible]/-13																					2
-1[illegible]/-15																					1

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PAGE 2 2100-2300 (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
TOTAL	23.4	64.7	11.6	.4														804	812	804	804

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	5335881	64953	80.8	10.498	804							
Dry Bulb	536745	19169	23.6	10.191	812	2.5	75.6					93
Wet Bulb	480543	17985	22.4	9.870	804	2.8	81.8					93
Dew Point	372594	14838	18.5	11.090	804	5.6	86.1					93

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726590 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) DEC (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
62/ 61				.0														1	1		
60/ 59			.0															1	1		
58/ 57			.0															3	3		
56/ 55		.0																1	1	2	
54/ 53		.0		.1														6	6	5	3
52/ 51		.2	.0															13	13	3	3
50/ 49	.0	.1	.0															14	14	16	15
48/ 47		.1	.0	.1														11	11	14	7
46/ 45		.1	.1	.0	.1													17	17	4	6
44/ 43	.0	.2	.1	.0	.0													24	24	17	14
42/ 41	.1	.3	.3	.2	.0	.0												57	57	27	23
40/ 39	.3	.4	.3	.3														84	84	48	29
38/ 37	.8	1.4	.5	.2	.2													204	204	112	56
36/ 35	1.0	2.2	1.8	.2	.0													332	332	201	108
34/ 33	1.2	5.0	2.0	.2	.0													537	538	344	168
32/ 31	1.0	6.6	2.7	.5														696	698	550	347
30/ 29	1.4	5.1	1.9															540	550	640	347
28/ 27	1.4	4.8	1.4	.0														491	494	611	461
26/ 25	1.3	5.1	1.0	.0														476	478	527	524
24/ 23	1.1	3.4	.6															328	328	520	335
22/ 21	2.0	4.3	.7															447	450	455	439
20/ 19	1.9	5.1	.4															478	483	387	587
18/ 17	.8	2.9	.3															263	263	384	483
16/ 15	1.1	3.4	.3															309	309	297	410
14/ 13	1.9	2.6	.1															275	275	292	382
12/ 11	1.2	1.8	.0															197	197	251	316
10/ 9	.9	1.5	.0															157	157	188	289
8/ 7	.9	1.3																139	141	154	211
6/ 5	.5	.9																88	89	112	156
4/ 3	.5	.6																69	69	81	156
2/ 1	.4	.4																49	51	53	168
0/ -1	.6	.0																44	47	51	102
-2/ -3	.4	.0																28	28	31	75
-4/ -5	.3	.0																22	22	21	48

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
DEC — MONTH

PAGE 2

ALL — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-6 / -7	.2																	16	16	17	46
-8 / -9	.2																	13	13	13	45
-10/-11	.1																	7	7	7	35
-12/-13	.0																	2	2	2	15
-14/-15	.1																	5	5	5	16
-16/-17	.0																	2	2	2	11
-18/-19																					8
TOTAL	23.3	39.8	14.8	1.7	.3	.0													6480		6444
																		6444		6444	

Element (X)	$\Sigma X'$	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	41575298	512050	79.5	11.733	6444							
Dry Bulb	4433483	156379	24.1	10.090	6480	16.3	594.1					744
Wet Bulb	3930692	146466	22.7	9.663	6444	17.2	652.4					744
Dew Point	2967145	119225	18.5	10.870	6444	46.3	694.1					744

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 (STATION) PHELPS-COLLINS/ALPENA MI (STATION NAME) 73-81 (YEARS) ALL (MONTH)

PAGE 1 ALL (HOURS (L. S. T.))

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
98/ 97											.0	.0	.0	.0				10	10		
96/ 95											.0	.0	.0					9	9		
94/ 93									.0	.0	.0	.0	.0					17	17		
92/ 91							.0	.0	.0	.0	.0	.0		.0				47	47		
90/ 89					.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				91	91		
88/ 87					.0	.0	.0	.1	.0	.0	.0	.0	.0					175	176		
86/ 85				.0	.0	.0	.1	.1	.1	.1	.0	.0	.0		.0			511	511		
84/ 83				.0	.0	.1	.1	.1	.1	.1	.1	.0	.0					492	492		
82/ 81			.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0					577	577	4	
80/ 79		.0	.0	.1	.1	.2	.2	.2	.2	.1	.1	.0	.0					806	806	8	4
78/ 77		.0	.0	.1	.1	.2	.2	.2	.2	.1	.0	.0	.0					879	880	34	2
76/ 75		.0	.1	.1	.3	.2	.2	.2	.1	.1	.0	.0	.0					1088	1088	172	24
74/ 73		.0	.1	.3	.3	.3	.3	.2	.1	.1	.0	.0						1551	1552	373	51
72/ 71	.0	.1	.3	.3	.3	.3	.3	.2	.1	.0	.0	.0						1437	1441	562	186
70/ 69	.0	.2	.4	.4	.3	.3	.2	.2	.1	.0	.0							1653	1655	952	377
68/ 67	.1	.3	.6	.4	.3	.3	.3	.2	.1	.0	.0							1881	1882	1474	679
66/ 65	.1	.6	.6	.5	.4	.2	.2	.1	.1	.0	.0							2177	2177	1906	1107
64/ 63	.1	.9	.6	.4	.4	.2	.2	.1	.1	.0								2393	2395	2457	1438
62/ 61	.2	.9	.5	.5	.4	.2	.2	.1	.0	.0								2528	2529	2687	1922
60/ 59	.2	1.0	.7	.4	.3	.2	.2	.1	.0	.0								2337	2340	2724	2282
58/ 57	.2	1.1	.7	.4	.3	.2	.2	.1	.0									2480	2481	2784	2598
56/ 55	.2	1.1	.8	.4	.3	.2	.1	.1	.0									2469	2470	2767	2494
54/ 53	.2	1.2	.6	.4	.2	.2	.1	.1	.0									2342	2342	2903	2592
52/ 51	.2	1.1	.7	.3	.3	.2	.1	.0	.0									2346	2350	2644	2824
50/ 49	.3	1.0	.7	.3	.3	.2	.0	.0										2217	2218	2489	2857
48/ 47	.3	1.1	.5	.4	.4	.2	.0	.0										2176	2178	2513	2487
46/ 45	.2	1.2	.6	.5	.3	.1	.0	.0										2196	2198	2475	2311
44/ 43	.2	1.3	.7	.5	.2	.1	.0	.0										2350	2355	2400	2253
42/ 41	.3	1.2	.8	.5	.2	.1	.0											2362	2364	2490	2531
40/ 39	.3	1.2	.9	.4	.1	.0	.0											2506	2508	2704	2440
38/ 37	.4	1.3	.7	.4	.1	.0	.0											2550	2553	2713	2260
36/ 35	.6	1.5	1.0	.3	.1	.0												2637	2642	2782	2459
34/ 33	.8	2.0	1.0	.3	.1	.0												3134	3139	3128	2843
32/ 31	.8	2.8	1.3	.3	.0													3986	3993	3375	3803

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
ALL — MONTH

PAGE 2

ALL — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
30/ 29	.7	1.7	1.0	.2	.0													2750	2770	3615	2978
28/ 27	.6	1.7	.8	.1	.0													2495	2501	2946	2988
26/ 25	.4	1.4	.6	.1	.0													2148	2153	2782	3130
24/ 23	.3	1.0	.4	.0														1322	1325	2267	1912
22/ 21	.6	1.2	.4	.0														1740	1745	1846	2394
20/ 19	.7	1.6	.3	.0														2033	2048	1715	2817
18/ 17	.4	1.0	.2															1245	1250	1725	2089
16/ 15	.4	1.1	.2															1283	1289	1379	1861
14/ 13	.4	.9	.1															1110	1117	1178	1775
12/ 11	.4	.7	.1															941	942	1101	1576
10/ 9	.3	.8	.1															906	906	965	1362
8/ 7	.3	.7	.0															719	721	903	1062
6/ 5	.2	.4																472	473	639	782
4/ 3	.2	.3																419	419	492	892
2/ 1	.2	.4																451	456	419	948
0/ -1	.3	.1																272	282	360	600
-2/ -3	.2	.0																199	199	231	539
-4/ -5	.2	.0																154	155	161	495
-6/ -7	.2	.0																129	129	134	377
-8/ -9	.1																	105	105	105	330
-10/-11	.1																	65	65	65	289
-12/-13	.1																	49	49	49	186
-14/-15	.1																	43	43	43	177
-16/-17	.0																	32	32	32	142
-18/-19	.0																	22	22	22	93
-20/-21	.0																	4	4	4	31
-22/-23	.0																	4	4	4	29
-24/-25	.0																	4	4	4	11
-26/-27	.0																	2	2	2	5
-28/-29	.0																	2	2	2	9
-30/-31	.0																	2	2	2	2
-32/-33	.0																	6	6	6	2
-34/-35	.0																	1	1	1	1
-36/-37																					6

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

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS
ALL — MONTH
PAGE 3
ALL — HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-35/-39																					4
-41/-41																					1
TOTAL	15.2	38.7	19.0	9.3	6.4	4.5	3.4	2.4	1.6	.9	.4	.2	.0	.0	.0			76719	76867	76719	76719

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥92 F	Total
Rel. Hum.	439495689	5643871	73.6	17.798	76719							
Dry Bulb	175608511	3326555	43.3	20.290	76867	125.6	2871.1	1234.2	666.1	243.8	4.1	8760
Wet Bulb	143962981	3025549	39.4	17.923	76719	139.9	3264.3	409.1	67.6	.6		8760
Dew Point	118863597	2646621	34.5	18.885	76719	379.7	3076.6	151.4	9.3			8760

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

72390 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	MEAN	16.6	16.0	27.2	36.2	45.7	53.9	59.8	58.8	51.3	42.1	33.8	22.6	38.8
	S D	12.079	12.972	10.546	9.626	9.403	8.335	7.239	7.601	9.287	8.924	9.783	10.347	17.949
	TOTAL OBS	815	742	820	785	813	791	805	814	784	806	784	805	9562
3-05	MEAN	16.0	14.8	26.0	34.8	43.7	52.4	57.5	57.0	50.2	40.9	33.0	22.0	37.5
	S D	12.648	13.711	11.015	9.986	9.185	8.800	7.471	7.850	9.355	9.008	9.594	10.557	17.777
	TOTAL OBS	803	747	820	791	816	793	820	798	791	806	788	800	9573
6-08	MEAN	15.4	14.2	25.4	36.2	48.0	57.3	61.9	59.6	51.4	40.9	32.5	21.8	38.8
	S D	12.650	14.095	11.510	9.900	9.317	8.460	7.012	7.654	9.062	8.738	9.743	10.777	19.199
	TOTAL OBS	821	752	824	799	818	789	808	810	792	818	790	820	9641
9-11	MEAN	17.7	18.9	31.0	43.5	57.4	66.4	72.0	69.6	59.5	47.7	36.4	23.8	45.4
	S D	11.199	11.764	10.295	11.140	11.149	9.201	6.949	6.551	8.417	8.694	9.858	9.827	21.287
	TOTAL OBS	816	751	816	793	818	793	815	812	779	815	784	808	9600
12-14	MEAN	22.1	24.1	35.2	47.5	61.6	70.5	76.4	74.1	64.0	52.1	40.3	27.3	49.7
	S D	9.542	10.644	10.235	12.003	12.105	9.987	7.625	7.199	9.175	9.788	10.864	8.655	21.378
	TOTAL OBS	813	750	819	791	820	792	821	809	792	813	781	813	9614
15-17	MEAN	22.3	24.6	35.9	47.6	61.1	70.0	76.5	74.0	63.7	51.7	39.7	27.3	49.7
	S D	9.464	10.483	10.149	11.783	11.473	9.416	7.505	7.411	9.146	9.722	10.585	8.850	21.124
	TOTAL OBS	814	741	818	794	820	791	821	815	787	819	786	808	9614
18-20	MEAN	19.0	20.9	32.3	43.5	56.5	65.9	72.1	68.9	58.0	46.3	35.4	24.7	45.4
	S D	10.318	11.058	9.560	10.567	10.351	8.489	7.073	6.962	8.912	8.800	9.377	9.689	20.442
	TOTAL OBS	818	740	818	793	825	795	812	814	791	816	786	814	9622
21-23	MEAN	17.3	17.8	29.0	38.4	49.2	57.7	63.7	61.7	53.1	43.4	33.9	23.6	40.9
	S D	11.121	12.440	9.730	9.569	9.142	7.773	6.738	6.969	8.720	8.948	9.496	10.191	18.442
	TOTAL OBS	816	749	823	795	818	793	820	812	793	822	792	812	9641
ALL HOURS	MEAN	18.3	18.9	30.3	41.0	52.9	61.7	67.5	65.5	56.4	45.6	35.6	24.1	43.3
	S D	11.457	12.771	11.055	11.679	12.255	11.124	10.127	9.778	10.444	10.027	10.307	10.090	20.290
	TOTAL OBS	6514	5968	6558	6341	6548	6337	6522	6484	6309	6515	6291	6480	76867

USAFETAC FORM JUL 64 0-89-5 (OL.1)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

[illegible] PHELPS-COLLINS/ALPENA MI 73-81

STATION | STATION NAME | YEARS

HRS (L S T)		JAN	FEB	MAR	APR.	MAY	JUN.	JUL.	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	MEAN	15.6	14.8	25.7	33.5	42.6	51.4	57.1	56.5	49.2	40.0	32.0	21.5	36.8
	S D	11.712	12.590	10.189	8.962	8.860	7.510	6.614	7.000	8.783	8.312	9.195	9.921	17.221
	TOTAL OBS	808	740	819	784	813	791	804	814	782	804	783	795	9537
3-05	MEAN	15.1	13.9	24.7	32.5	41.3	50.3	55.6	55.2	48.4	39.1	31.4	20.9	35.8
	S D	12.296	13.557	10.603	9.346	8.666	7.994	6.860	7.354	8.845	8.529	9.122	10.210	17.188
	TOTAL OBS	802	744	818	789	815	793	818	798	790	804	786	795	9552
6-08	MEAN	14.6	13.5	24.2	33.6	44.5	53.7	58.7	57.3	49.5	39.2	31.0	20.8	36.8
	S D	12.317	13.684	11.173	9.102	8.511	7.350	6.065	7.010	8.526	8.351	9.381	10.463	18.213
	TOTAL OBS	815	747	821	797	817	788	807	810	792	818	788	815	9615
9-11	MEAN	16.0	17.6	28.4	37.9	49.5	58.3	63.5	62.8	54.5	43.8	34.0	22.6	40.9
	S D	10.826	11.354	9.642	9.138	8.932	7.184	5.582	5.577	7.484	7.901	9.180	9.497	18.567
	TOTAL OBS	814	748	816	793	818	792	813	810	778	814	783	804	9583
12-14	MEAN	20.1	21.6	31.1	40.0	51.3	59.7	64.8	64.1	56.0	45.9	36.2	25.2	43.1
	S D	9.097	9.992	9.115	9.272	9.045	6.983	5.708	5.882	7.593	8.328	9.126	8.286	17.722
	TOTAL OBS	810	748	818	790	818	791	821	809	791	809	780	815	9598
15-17	MEAN	20.0	21.8	31.5	40.0	51.0	59.3	64.7	64.1	55.7	45.5	35.7	25.1	43.0
	S D	8.965	9.792	8.909	9.000	8.778	6.732	5.677	5.781	7.442	8.311	9.013	8.415	17.545
	TOTAL OBS	812	740	816	794	820	791	820	815	786	818	784	807	9682
18-20	MEAN	17.5	19.0	29.2	37.7	48.7	57.6	63.2	62.1	53.2	42.6	33.1	23.2	40.7
	S D	9.959	10.679	8.909	8.714	8.556	6.714	5.789	5.779	7.812	8.291	8.894	9.493	17.858
	TOTAL OBS	816	736	816	793	824	795	812	813	791	816	786	811	9609
21-23	MEAN	16.2	16.5	27.1	35.0	44.9	53.9	59.7	58.7	50.4	40.9	31.9	22.4	38.3
	S D	10.742	12.048	9.404	8.657	8.599	6.976	6.126	6.368	8.228	8.351	9.063	9.870	17.389
	TOTAL OBS	811	744	823	795	818	793	819	812	793	820	790	804	9622
ALL HOURS	MEAN	17.0	17.3	27.8	36.3	46.7	55.5	60.9	60.1	52.1	42.1	33.1	22.7	39.4
	S D	10.984	12.150	10.110	9.449	9.457	7.963	6.939	7.197	8.599	8.689	9.290	9.663	17.923
	TOTAL OBS	6488	5947	6547	6335	6543	6334	6514	6481	6303	6503	6280	[illegible]	76719

USAFETAC FORM JUL 64 0-89-5 (OL-1)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

39 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	10.8	9.7	21.6	28.8	38.9	49.3	55.3	55.0	47.3	37.2	28.6	17.8	33.5
0-02	S D	13.274	14.402	12.006	10.648	10.097	7.678	6.831	7.063	9.063	9.062	9.964	11.004	18.703
	TOTAL OBS	808	740	819	784	813	791	804	814	782	804	783	795	9537
	MEAN	10.6	9.2	21.0	28.4	38.3	48.5	54.2	53.9	46.9	36.7	28.2	17.2	32.9
3-05	S D	13.758	14.937	12.148	10.858	9.516	8.024	6.876	7.381	9.018	9.238	9.997	11.218	18.629
	TOTAL OBS	802	744	818	789	815	793	818	798	790	804	786	795	9552
	MEAN	10.3	9.1	20.6	29.2	40.5	50.9	56.5	55.7	48.0	36.8	28.1	17.3	33.7
6-08	S D	13.719	15.216	12.633	10.522	9.489	7.656	6.335	7.025	8.666	9.115	10.335	11.566	19.371
	TOTAL OBS	815	747	821	797	817	788	807	810	792	818	788	815	9615
	MEAN	12.0	12.4	22.8	30.0	41.5	52.2	58.1	58.2	50.3	39.2	30.1	18.8	35.6
9-11	S D	12.470	13.124	11.782	10.867	10.812	8.185	7.088	6.918	8.651	9.277	10.117	10.795	19.129
	TOTAL OBS	814	748	816	793	818	792	813	810	778	814	783	804	9583
	MEAN	13.6	14.0	23.1	29.9	41.3	51.9	57.5	57.7	49.4	39.0	30.1	20.0	35.7
12-14	S D	11.412	12.400	11.767	11.483	11.240	8.330	7.906	7.933	9.405	9.927	9.830	10.057	18.566
	TOTAL OBS	810	748	818	790	818	791	821	809	791	809	780	813	9598
	MEAN	12.7	13.5	23.2	29.4	40.9	51.3	57.0	57.6	49.1	38.5	29.4	19.6	35.3
15-17	S D	11.588	12.669	11.792	11.815	11.389	8.684	8.109	7.853	9.231	10.101	10.121	10.177	18.702
	TOTAL OBS	812	740	816	794	820	791	820	815	786	818	784	807	9603
	MEAN	11.8	12.4	22.7	29.1	40.3	51.2	57.2	57.5	49.0	38.2	28.8	18.9	34.9
18-20	S D	11.832	13.262	11.769	11.524	11.172	8.557	7.946	7.448	8.763	9.716	10.193	10.742	18.937
	TOTAL OBS	816	750	816	793	824	795	812	813	791	816	786	811	9609
	MEAN	11.2	11.1	22.4	29.3	40.1	50.6	56.8	56.5	48.0	37.6	28.4	18.5	34.4
21-23	S D	12.339	14.227	11.576	10.670	10.419	7.666	6.941	6.786	8.770	9.312	10.064	11.090	18.831
	TOTAL OBS	811	744	823	795	818	793	819	812	793	820	790	804	9622
	MEAN	11.6	11.4	22.2	29.2	40.2	50.8	56.6	56.5	48.5	37.9	29.0	18.5	34.5
ALL HOURS	S D	12.604	13.923	11.966	11.062	10.589	8.187	7.383	7.494	9.009	9.516	10.101	10.870	18.885
	TOTAL OBS	6488	5947	6547	6335	6543	6339	6514	6481	6303	6503	6280	6444	76719

USAFETAC FORM JUL 64 0-89-5 (OL-1)

GENERAL CLIMATOLOGY BRANCH
USAETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
[illegible]59	PHELPS-COLLINS/ALPENA MI	73-81	JAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	00-02	100.0	100.0	99.9	99.4	98.9	93.2	72.9	43.6	19.3	76.5	809
	03-05	100.0	100.0	100.0	99.9	98.5	95.1	75.4	49.0	20.3	79.5	802
	06-08	100.0	100.0	100.0	100.0	99.3	95.2	78.2	49.2	23.9	[illegible]	815
	09-11	100.0	100.0	100.0	99.8	98.4	91.5	74.7	49.4	21.3	79.1	814
	12-14	100.0	100.0	100.0	99.3	92.0	73.0	49.9	25.2	9.5	76.3	810
	15-17	100.0	100.0	100.0	97.2	87.7	64.8	41.0	19.7	7.4	67.4	812
	18-20	100.0	100.0	100.0	99.5	96.3	84.1	60.4	30.8	12.7	74.1	816
	21-23	100.0	100.0	100.0	99.8	98.5	91.5	69.5	37.2	16.6	77.0	811
TOTALS		100.0	100.0	100.0	99.4	96.2	86.1	65.3	3[illegible].0	16.4	75.0	6488

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible] CLIMATOLOGY BRANCH
[illegible]
[illegible] WEATHER SERVICE/MAC

RELATIVE HUMIDITY

[illegible]39 — STATION
PHELPS-COLLINS/ALPENA MI — STATION NAME
73-81 — PERIOD
FEB — MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	99.9	99.6	98.4	89.7	68.6	37.0	12.1	76.0	740
	03-05	100.0	100.0	100.0	100.0	99.2	93.5	73.8	41.8	21.2	78.4	744
	06-08	100.0	100.0	100.0	100.0	98.8	95.9	77.9	40.2	25.2	80.5	747
	09-11	100.0	100.0	99.7	99.5	96.9	87.0	67.6	39.2	18.6	76.5	749
	12-14	100.0	100.0	99.5	97.5	83.4	60.8	37.0	19.7	9.6	66.5	749
	15-17	100.0	100.0	99.2	93.9	75.7	53.2	35.0	18.4	5.9	63.9	740
	18-20	100.0	100.0	100.0	98.0	90.2	73.5	48.2	27.4	10.5	70.5	736
	21-23	100.0	100.0	100.0	99.5	95.2	84.8	64.0	37.6	19.4	75.6	744
TOTALS		100.0	100.0	99.8	98.5	92.2	79.8	59.0	33.7	16.2	73.6	5947

USAPETAC FORM JUL 64 0-87-5 (OL A)

[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
[illegible] SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
39[illegible]	PHILPS-COLLINS/ALPENA MI	73-81	MAR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	99.3	96.6	90.4	76.1	54.2	28.2	[illegible]	819
	03-05	100.0	100.0	100.0	99.8	97.8	92.6	80.3	60.8	29.7	81.8	818
	06-08	100.0	100.0	100.0	100.0	98.7	93.4	81.1	62.9	34.0	82.6	821
	09-11	100.0	100.0	99.9	98.3	90.6	74.8	54.9	37.6	17.8	72.9	816
	12-14	100.0	100.0	97.9	91.0	72.4	52.6	34.5	20.6	9.3	63.5	818
	15-17	100.0	100.0	97.1	86.6	69.7	51.5	33.5	20.2	9.2	62.2	816
	18-20	100.0	100.0	98.3	93.8	84.2	69.4	50.7	32.6	13.5	69.7	816
	21-23	100.0	100.0	100.0	98.8	94.0	85.2	70.1	46.7	21.9	77.2	625
TOTALS		100.0	100.0	99.2	95.0	87.9	76.3	60.2	41.9	20.5	75.8	6547

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible]AL CLIMATOLOGY BRANCH
[illegible]TAC
[illegible]EATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	[illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	0-02	100.0	100.0	100.0	98.9	93.2	81.5	63.4	43.4	21.8	75.8	784
	[illegible]3-05	100.0	100.0	100.0	99.6	95.7	84.9	69.6	52.0	26.2	79.4	789
	[illegible]-08	100.0	100.0	100.0	99.2	94.0	82.4	66.2	47.6	23.3	76.9	797
	[illegible]-11	100.0	100.0	98.1	85.0	66.1	46.3	30.5	2[illegible].7	11.5	61.6	793
	1[illegible]-14	100.0	99.6	87.7	87.7	49.2	33.7	23.2	15.6	[illegible].2	54.2	79[illegible]
	1[illegible]-17	100.0	98.4	84.9	64.5	47.6	35.0	24.6	18.3	[illegible].7	53.[illegible]	794
	1[illegible]-2[illegible]	100.0	99.5	92.9	79.8	61.4	47.3	32.0	2[illegible].0	13.2	6[illegible].6	793
	[illegible]1-23	100.0	100.0	99.6	96.9	86.[illegible]	7[illegible].6	50.1	36.9	1[illegible].5	71.6	795
TOTALS		100.0	99.7	95.4	86.5	74.2	6[illegible].2	45.[illegible]	[illegible].2	1[illegible].4	6[illegible].[illegible]	[illegible]335

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible] CLIMATOLOGY BRANCH
[illegible] TAC
[illegible] SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
34	PHILLIPS-COLLINS/ALPENA MI	73-81	MAY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
	[illegible]	[illegible]	100.0	99.8	98.6	94.1	87.9	75.2	[illegible]	20.4	[illegible]	813
	[illegible]	100.0	100.0	100.0	99.8	97.4	94.0	83.1	52.2	28.3	81.9	815
	[illegible]-08	100.0	100.0	100.0	98.9	93.9	84.5	67.4	43.5	[illegible]	76.6	817
	[illegible]-11	[illegible]	99.9	95.1	79.6	61.4	41.8	26.3	[illegible]	6.2	55.3	81[illegible]
	1[illegible]-14	[illegible]	98.2	86.6	63.3	43.6	26.8	17.0	[illegible]	3.9	[illegible]	[illegible]
	[illegible]-17	100.0	98.5	8[illegible].6	62.7	42.2	27.8	19.0	11.7	4.9	51.1	[illegible]
	[illegible]-20	100.0	99.8	93.3	78.3	58.6	39.9	26.6	13.2	5.3	57.9	82[illegible]
	[illegible]-23	[illegible]	100.0	99.6	96.8	89.0	76.7	55.4	33.5	15.5	72.5	81[illegible]
TOTALS		[illegible]	99.6	95.1	84.3	72.6	59.9	46.3	[illegible]	17.2	65.[illegible]	5943

USAFETAC FORM JUL 64 0-87-5 (OL A)

AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	JUN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	0-02	100.0	100.0	100.0	100.0	98.9	97.2	89.9	71.4	32.5	84.9	791
	03-05	100.0	100.0	100.0	100.0	100.0	97.5	92.0	52.0	40.4	87.2	795
	06-08	100.0	100.0	100.0	100.0	99.1	90.5	76.5	52.9	24.5	80.3	788
	09-11	100.0	100.0	99.6	93.6	72.0	50.5	29.5	14.9	5.4	62.3	792
	12-14	100.0	100.0	97.1	76.4	51.1	31.2	17.7	5.2	3.8	54.3	791
	15-17	100.0	100.0	94.3	72.7	51.3	32.5	21.1	11.4	4.2	54.4	791
	18-20	100.0	100.0	98.9	88.1	67.7	46.9	31.6	10.6	6.3	61.0	795
	21-23	100.0	100.0	100.0	99.6	97.9	89.2	73.1	44.0	15.5	78.2	795
TOTALS		100.0	100.0	98.7	91.3	79.8	66.9	54.0	37.8	16.5	71.4	6334

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible] CLIMATOLOGY BRANCH
[illegible]
[illegible] WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
39[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	JUL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	99.6	98.3	91.4	6[illegible]	35.3	35.7	8[illegible]
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	95.7	8[illegible].9	46.6	88.8	81[illegible]
	06-08	100.0	100.0	100.0	100.0	99.9	95.8	82.8	61.0	30.1	83.[illegible]	807
	09-11	100.0	100.0	99.8	95.2	78.2	52.4	29.9	15.7	4.4	5[illegible].2	813
	12-14	100.0	100.0	95.4	78.7	53.1	30.6	16.7	9.1	2.3	54.2	821
	15-17	100.0	100.0	94.8	76.5	47.2	31.0	17.1	9.5	2.9	53.4	82[illegible]
	18-20	100.0	100.0	98.6	89.7	70.1	47.2	29.9	17.1	4.3	61.5	812
	21-23	100.0	100.0	100.0	100.0	98.4	96.4	74.6	46.5	18.7	79.0	619
TOTALS		100.0	100.0	98.6	92.5	80.8	68.2	54.5	35.6	18.1	71.1	6514

USAFETAC FORM JUL 64 0-87-5 (OL A)

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
39	PHELPS-COLLINS/ALPENA MI	73-81	AUG

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
	00-02	100.0	100.0	100.0	100.0	100.0	99.1	93.2	7[illegible].5	39.9	87.6	514
	03-05	100.0	100.0	100.0	100.0	100.0	99.7	98.4	85.0	47.7	89.4	798
	06-08	100.0	100.0	100.0	100.0	99.9	99.6	94.0	70.7	40.9	87.5	810
	9-11	100.0	100.0	100.0	99.0	87.7	65.9	42.3	23.8	7.4	68.5	810
	12-14	100.0	100.0	99.3	86.5	61.9	40.2	23.4	12.9	3.2	58.5	809
	15-17	100.0	100.0	98.3	85.4	63.7	41.0	25.4	13.3	3.2	58.7	815
	18-20	100.0	100.0	99.9	95.9	84.1	66.4	47.1	23.2	8.9	68.7	813
	21-23	100.0	100.0	100.0	100.0	99.6	96.9	86.2	64.0	27.1	83.6	812
TOTALS		100.0	100.0	99.7	95.9	87.1	76.1	63.8	47.8	22.3	75.5	6481

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible]AL CLIMATOLOGY BRANCH
USAFETAC
A[illegible] WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	SEP

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	00-02	100.0	100.0	100.0	100.0	99.7	96.8	91.9	75.3	40.0	86.[illegible]	782
	03-05	100.0	100.0	100.0	100.0	100.0	99.1	93.4	82.7	47.1	88.5	790
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	93.9	8[illegible].3	45.5	88.2	792
	09-11	100.0	100.0	100.0	99.7	93.1	77.4	54.5	32.8	12.1	72.9	778
	12-14	100.0	100.0	99.4	89.9	69.4	45.4	26.2	14.3	5.9	61.0	791
	15-17	100.0	100.0	99.7	89.6	69.1	46.3	27.7	15.5	5.7	61.3	786
	18-20	100.0	100.0	100.0	99.1	93.0	79.5	58.7	34.5	10.7	73.2	791
	21-23	100.0	100.0	100.0	99.9	99.2	95.5	88.0	65.1	27.2	83.5	793
TOTALS		100.0	100.0	99.9	97.3	90.4	80.0	66.8	50.2	24.3	76.9	6323

USAFETAC FORM JUL 64 0-87-5 (OL A)

[illegible] CLIMATOLOGY BRANCH
[illegible]TAC
[illegible] WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
[illegible]39	PHELPS-COLLINS/ALPENA MI	73-81	OCT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	[illegible]0-02	100.0	100.0	100.0	99.5	98.9	94.2	84.2	65.0	32.8	83.4	824
	[illegible]-05	100.0	100.0	100.0	100.0	99.1	95.8	87.9	72.5	38.3	85.3	604
	[illegible]-08	100.0	100.0	100.0	100.0	99.4	95.8	89.0	73.8	38.4	85.8	815
	[illegible]9-11	100.0	100.0	100.0	99.1	93.6	77.9	58.6	35.9	14.9	73.5	814
	12-14	100.0	100.0	99.4	92.3	74.7	52.9	32.5	15.5	6.1	63.0	809
	[illegible]-17	100.0	100.0	99.0	89.9	74.3	52.7	32.4	16.4	5.9	62.9	818
	[illegible]-2[illegible]	100.0	100.0	100.0	99.1	94.2	82.6	60.2	36.0	14.6	74.5	815
	21-23	100.0	100.0	100.0	99.6	97.8	92.0	78.3	55.6	25.5	80.7	823
TOTALS		100.0	100.0	99.8	97.4	91.5	80.5	65.4	46.3	22.1	76.2	6503

USAFETAC FORM JUL 64 0-87-5 (OL A)

GENERAL CLIMATOLOGY BRANCH
USAETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
7[illegible]39	PHELPS-COLLINS/ALPENA MT	73-81	NOV

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	100.0	99.9	98.9	94.1	81.2	50.4	30.5	72.5	783
	03-05	100.0	100.0	100.0	100.0	99.6	96.1	83.3	62.7	33.7	83.2	785
	06-08	100.0	100.0	100.0	100.0	100.0	97.6	84.5	66.8	34.9	84.2	788
	09-11	100.0	100.0	100.0	100.0	99.2	90.7	70.4	45.4	23.8	78.6	783
	12-14	100.0	100.0	99.6	96.5	87.1	66.2	41.4	25.8	13.3	68.6	780
	15-17	100.0	100.0	98.9	95.3	84.8	64.5	42.1	28.6	15.1	68.7	784
	18-20	100.0	100.0	100.0	99.4	96.9	88.9	66.9	45.5	22.5	77.8	786
	21-23	100.0	100.0	100.0	99.7	98.1	94.4	76.7	55.3	29.2	81.0	790
TOTALS		100.0	100.0	99.8	98.9	95.6	86.6	68.3	48.7	25.4	76.0	6280

USAETAC FORM JUL 64 0-87-5 (OL A)

AL CLIMATOLOGY BRANCH
ETAC
EATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
59	PHELPS-COLLINS/ALPENA MI	73-81	DEC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	99.9	99.6	98.2	86.3	55.5	24.0	81.8	795
	03-05	100.0	100.0	100.0	100.0	99.5	96.9	88.4	57.9	24.0	82.2	795
	06-08	100.0	100.0	100.0	99.9	99.6	96.6	87.9	61.5	28.1	82.9	815
	09-11	100.0	100.0	100.0	100.0	99.0	95.0	82.8	57.7	23.1	81.4	804
	12-14	100.0	100.0	100.0	99.9	97.0	85.1	60.4	35.3	11.9	74.4	813
	15-17	100.0	100.0	100.0	99.5	96.3	84.8	56.6	31.0	11.9	73.3	807
	18-20	100.0	100.0	100.0	99.9	99.0	94.5	76.3	44.5	21.0	79.0	811
	21-23	100.0	100.0	100.0	100.0	99.5	97.0	82.7	52.6	21.4	80.8	804
TOTALS		100.0	100.0	100.0	99.9	98.7	93.5	77.7	49.5	20.7	79.5	6444

USAPETAC FORM APR 64 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAPETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	MONTH
[illegible]	PHELPS-COLLINS/ALPENA MI	73-81	ALL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	ALL	100.0	100.0	100.0	99.4	96.2	86.1	65.3	[illegible]	18.4	75.5	6488
FEB		100.0	100.0	99.8	95.5	92.2	79.8	59.0	33.7	16.2	7[illegible].6	5947
[illegible]		100.0	100.0	99.2	95.0	87.9	76.3	60.2	41.9	20.5	73.9	6547
APR		100.0	99.7	95.4	86.5	74.2	60.2	45.0	32.2	16.4	65.6	6375
[illegible]		100.0	99.6	95.1	84.8	72.6	59.9	46.3	3[illegible].6	13.2	65.9	6543
[illegible]		100.0	100.0	98.7	91.3	79.8	66.9	54.0	37.8	16.6	7[illegible].4	6334
JUNE		100.0	100.0	98.6	92.5	80.8	68.2	54.8	3[illegible].6	18.1	71.1	6514
[illegible]		100.0	100.0	99.7	95.9	87.1	76.1	63.8	47.8	22.3	75.3	6481
[illegible]		100.0	100.0	99.9	97.3	90.4	80.0	66.8	5[illegible].2	24.3	76.9	6303
[illegible]		100.0	100.0	99.8	97.4	91.5	80.5	65.4	46.3	22.1	76.2	6563
NOV		100.0	100.0	99.8	98.9	95.6	86.6	68.3	48.7	25.4	78.0	6280
DEC		100.0	100.0	100.0	99.9	98.7	93.5	77.7	49.5	20.7	79.5	6444
TOTALS		100.0	99.9	99.8	94.9	87.3	76.2	60.6	41.3	19.4	73.6	76719

USAPETAC FORM JUL 64 0-87-5 (DL A)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F PRESSURE SUMMARY

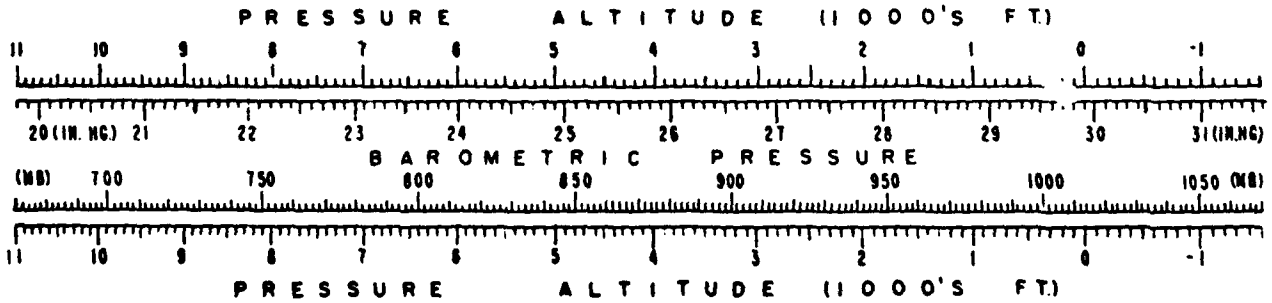
Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided 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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2

NATIONAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

[illegible] PHELPS-COLLINS/ALPENA MI 73-81

STATION | STATION NAME | YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	29.203	29.262	29.208	29.227	29.197	29.190	29.226	29.275	29.268	29.261	29.230	29.231	29.231
1	S D	.277	.293	.255	.257	.169	.185	.142	.139	.165	.230	.255	.264	.226
	TOTAL OBS	265	247	272	263	274	265	272	274	264	270	261	269	3196
	MEAN	29.207	29.257	29.201	29.222	29.188	29.181	29.220	29.265	29.261	29.256	29.224	29.232	29.226
4	S D	.283	.295	.263	.263	.178	.192	.147	.144	.173	.236	.256	.269	.231
	TOTAL OBS	259	248	274	266	279	265	274	270	264	267	261	267	3190
	MEAN	29.207	29.264	29.212	29.247	29.212	29.201	29.241	29.283	29.281	29.267	29.232	29.231	29.240
7	S D	.292	.304	.273	.264	.186	.197	.154	.148	.179	.240	.262	.273	.238
	TOTAL OBS	278	254	275	266	276	267	271	269	265	275	263	273	3232
	MEAN	29.224	29.278	29.223	29.246	29.210	29.205	29.244	29.290	29.285	29.282	29.246	29.245	29.248
	S D	.291	.312	.278	.265	.184	.194	.152	.149	.180	.241	.261	.274	.239
	TOTAL OBS	265	249	279	262	270	264	267	268	261	269	262	269	3185
	MEAN	29.209	29.264	29.206	29.235	29.199	29.193	29.235	29.278	29.270	29.258	29.226	29.217	29.232
1	S D	.294	.312	.281	.260	.184	.194	.146	.146	.175	.239	.259	.278	.238
	TOTAL OBS	272	249	271	264	275	264	273	270	266	274	265	271	3214
	MEAN	29.198	29.242	29.184	29.213	29.181	29.177	29.216	29.253	29.248	29.239	29.211	29.216	29.215
	S D	.285	.301	.266	.248	.174	.187	.159	.159	.167	.232	.252	.272	.229
	TOTAL OBS	266	247	275	265	276	265	274	272	260	276	257	270	3205
	MEAN	29.224	29.264	29.198	29.217	29.181	29.174	29.214	29.257	29.260	29.261	29.236	29.227	29.226
	S D	.279	.293	.258	.242	.165	.182	.133	.135	.161	.231	.249	.273	.225
	TOTAL OBS	271	248	272	267	271	266	275	270	267	271	261	271	3210
	MEAN	29.221	29.267	29.211	29.237	29.200	29.190	29.229	29.272	29.272	29.265	29.231	29.229	29.235
4	S D	.288	.295	.254	.246	.164	.182	.131	.133	.161	.229	.250	.269	.223
	TOTAL OBS	265	248	276	267	273	267	276	271	266	277	264	271	3221
ALL HOURS	MEAN	29.212	29.262	29.205	29.230	29.196	29.189	29.228	29.272	29.268	29.261	29.230	29.229	29.232
	S D	.285	.300	.266	.255	.176	.189	.143	.142	.170	.235	.255	.271	.231
	TOTAL OBS	2143	1990	2194	2120	2190	2123	2182	2164	2113	2179	2094	2161	25653

USAFETAC FORM JUL 64 0-89-5 (OL-1)

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[illegible]AL CLIMATOLOGY BRANCH
[illegible]ETAC
A[illegible] [illegible]EATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

[illegible]59 PHELPS-COLLINS/ALPENA MI 73-81

STATION STATION NAME YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	1015.7	1017.7	1015.5	1015.8	1014.3	1013.8	1015.0	1016.8	1016.8	1016.8	1015.9	1016.5	1015.9
	S D	10.033	10.624	9.156	9.153	6.129	6.599	5.072	4.899	5.969	8.175	9.121	9.506	8.143
	TOTAL OBS	275	246	274	265	275	265	269	269	260	269	263	270	3192
	MEAN	1015.0	1017.6	1015.1	1015.5	1014.1	1013.5	1014.8	1016.4	1016.5	1016.6	1015.7	1016.4	1015.7
	S D	10.400	10.653	9.500	9.363	6.433	6.819	5.251	5.107	6.262	8.472	9.136	9.667	8.348
	TOTAL OBS	269	247	273	264	272	265	273	268	265	269	260	268	3193
	MEAN	1015.9	1017.8	1015.6	1016.5	1014.8	1014.2	1015.5	1017.1	1017.1	1017.0	1016.0	1016.4	1016.2
	S D	10.460	10.935	9.732	9.557	6.654	6.927	5.455	5.217	6.384	8.557	9.288	9.713	8.475
	TOTAL OBS	277	254	275	267	276	266	272	269	267	275	263	273	3234
	MEAN	1016.6	1018.4	1016.0	1016.5	1014.8	1014.4	1015.7	1017.3	1017.3	1017.6	1016.6	1016.9	1016.5
	S D	10.623	11.364	9.983	9.436	6.677	6.858	5.401	5.267	6.428	8.624	9.265	9.814	8.599
	TOTAL OBS	275	249	279	262	272	264	266	269	260	269	262	270	3197
	MEAN	1015.0	1017.6	1015.3	1016.0	1014.3	1013.9	1015.3	1016.8	1016.7	1016.7	1015.8	1015.9	1015.8
	S D	10.584	11.343	9.986	9.213	6.521	6.858	5.187	5.145	6.232	8.461	9.196	9.815	8.479
	TOTAL OBS	274	250	273	265	276	266	273	271	266	274	265	271	3224
	MEAN	1015.6	1016.9	1014.6	1015.3	1013.7	1013.4	1014.6	1016.0	1016.0	1016.0	1015.3	1015.8	1015.3
	S D	10.248	10.912	9.551	8.843	6.209	6.627	4.964	4.945	5.992	8.275	9.004	9.684	8.211
	TOTAL OBS	274	241	275	265	273	265	274	272	259	276	258	270	3208
	MEAN	1016.4	1017.7	1015.1	1015.4	1013.7	1013.3	1014.5	1016.1	1016.5	1016.9	1016.2	1016.2	1015.7
	S D	10.017	10.687	9.208	8.555	5.895	6.451	4.689	4.810	5.749	8.169	8.844	9.696	8.050
	TOTAL OBS	270	249	272	267	272	265	275	270	267	269	260	270	3206
	MEAN	1016.3	1016.0	1015.6	1016.1	1014.5	1013.9	1015.1	1016.7	1017.0	1017.0	1016.1	1016.5	1016.0
	S D	10.113	10.456	9.114	8.740	5.915	6.452	4.668	4.695	5.785	8.228	8.892	9.618	8.023
	TOTAL OBS	267	250	277	266	274	267	275	271	267	277	264	270	3225
ALL HOURS	MEAN	1016.0	1017.7	1015.3	1015.9	1014.3	1013.8	1015.1	1016.6	1016.7	1016.8	1016.0	1016.3	1015.9
	S D	10.293	10.865	9.529	9.081	6.311	6.700	5.097	5.024	6.107	8.369	9.087	9.687	8.300
	TOTAL OBS	2177	1992	2196	2119	2190	2121	2177	2159	2111	2178	2095	2162	25679

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