

AD-A187 849

ALPENA MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE

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WEATHER OBSERVATIONS PART 1 A-1(U) AIR FORCE

ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

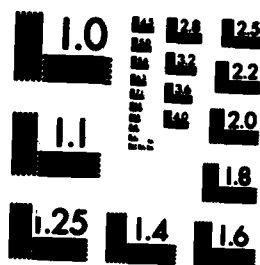
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USMI 726390

USAFETAC/DS-87/059

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**REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS**

ALPENA MI MSC# 726390
N 46 57 W 067 53 ELEV 746 FT KLIZ
PARTS A - F HOURS SUMMARIZED 0000 - 2300 LST
PERIOD OF RECORD:
HOURLY OBSERVATIONS: AUG 77 - JUL 87
SUMMARY OF DAY DATA: AUG 50 - JUL 87

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REPORT DOCUMENTATION PAGE

- 1a. Report Security Classification: UNCLASSIFIED
3. Distribution/Availability of Report: Approved for public release; Distribution unlimited.
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- 13b. Time Covered: Sep 59-Apr 87.
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17. COBATI Codes: Field--04, Group--02
18. Subject Terms: *climatology; *weather; meteorological conditions; winds; precipitation; temperature; visibility; barometric pressure; relative humidity; sky cover; psychrometric data; ceiling; Revised Uniform Summary of Surface Weather Observations (RUSSWO); Alpena MI; Michigan; Phelps-Collins Field MI; USMI726390.
19. Abstract: A six-part statistical data summary of surface weather observations for: Alpena MI. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (ADA132186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWO) for complete description of contents and instructions for use.
20. Distribution/Availability of Abstract: Same as report.
21. Abstract Security Classification: UNCLASSIFIED.
- 22a. Name of Responsible Individual: Marianne L. Cavanaugh
- 22b. Telephone: (618)256-2625
- 22c. Office Symbol: USAFETAC/LDD

REVIEW AND APPROVAL STATEMENT

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This document has been reviewed and is approved for publication.

FOR THE COMMANDER

A handwritten signature in dark ink, appearing to read "Walter S. Burgmann", with a long horizontal flourish extending to the right.

WALTER S. BURGMANN
Scientific and Technical Information Program Manager

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STATION NAME: ALPENA MI

STATION NUMBER: 726350

CALL ID: KAPH

PERIOD OF RECORD:

HOURS SUMMARIZED: 0000-2300 LST

HOURLY OBSERVATIONS: MAY 77 - APR 87

SUMMARY OF DAY DATA: SEP 59 - APR 87

TIME CONVERSION LST TO GMT: +5

DATE PRODUCED: 16 SEP 1987

OL-1/USAF/TAC/MAG/ANS
ASHEVILLE NC 28401

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS 10/10A AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY DATA (DAILY OBSERVATIONS): DATA COMPILED FROM ALL AVAILABLE OBSERVATIONS WHICH INCLUDES HOURLY OBSERVATIONS AND DAILY DATA RECORDED IN COLUMNS 66-73, AWS FORMS 10/10A.

DESCRIPTION OF SUMMARIES: PRECEDING EACH PART OF THE RUSSWO IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.

STANDARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND EXERCISES ON ITS USAGE, SEE USAFETAC/TN-83-001, "AN AID FOR USING THE REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS" (RUSSWO).

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PART E: TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

PART F: PRESSURE SUMMARIES

AWSMSC NUMBER: THIS NUMBER IS THE AIR WEATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPRISED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX 10 THROUGH 91. IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A 5-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS DATSAV OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

STATION NO OR SURNAME		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		QRB NUMBER	
726390		ALPENA/PHELPS COLLINS MI		N 45 04		W 083 34		689		APW		72639	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		QBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARS.					
1.	Alpena MI/Phelps-Collins Field	WBAS	8 Aug 59	* May 82	N 45 04	W 083 34	689	691.95	24				
2.	Same	WBAS	Jun 82	Apr 87	Same	Same	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	Latest copy Nov 1980							
2	Dec 68	Same	F-420C	Same	Same								
3	Jul 74	Ground	Same	Same	22								

PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	AAAAAA
PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	AAAAAA
PP PP	AA AA	RR RR	TT	AA AA
PP PP	AA AA	RR RR	TT	AA AA
PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	AAAAAA
PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	AAAAAA
PP	AA AA	RR RR	TT	AA AA
PP	AA AA	RR RR	TT	AA AA
PP	AA AA	RR RR	TT	AA AA

WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ATMOSPHERIC PHENOMENA SUMMARY

1. A PERCENTAGE FREQUENCY OF DAYS SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON SUMMARY OF DAY DATA.
3. SUMMARIZED BY MONTH WITH ALL HOURS AND ALL YEARS COMPILED.

DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (ICLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET. SNOW INCLUDING SNOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

HALE: ALL REPORTED HAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPLY IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF. THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (100 METERS).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

NOTES:

1. A VALUE IN THE TABLES OF "0" INDICATES LESS THAN .05% OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE

2. METAR STATIONS (BEGINNING IN JAN 1968) AND SYNOPTIC REPORTING STATIONS RECORDED ON THE AWS FORMS 10/10A AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAR STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS 10/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE AFFECTS THE PERCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 75-87
MONTH: JAN

HOURS (LST)	TSTMS	RAIN E/OP DRIZZLE	FRZING RAIN E/OP DRIZZLE	SNOW E/OP SLEET	FAIL	% OBS WITH PRECIP	FOG	SMOKE E/OP HAZE	BLOWING SNOW	DUST E/OP SAND	% OBS W/CBSI TO VISION	TOTAL OBS
00-02		1.6	.3	45.3		40.7	9.5	1.2	4.0		14.0	930
03-05		1.3	.5	44.5		45.9	9.4	.9	4.7		14.4	930
06-08		1.4	1.1	47.2		48.7	12.0	1.0	5.6		18.2	930
09-11		1.2	1.5	41.3		42.2	19.0	2.2	4.7		25.4	930
12-14		1.7	.5	37.0		38.8	13.1	3.9	9.0		24.9	930
15-17		1.3	.1	32.6		33.6	9.1	4.1	7.3		19.2	930
18-20		1.2	.5	39.5		40.6	12.4	1.9	5.6		18.9	930
21-23		1.1	.8	44.2		44.9	10.3	1.6	5.3		16.2	930
TOTALS		1.4	.7	41.6		42.6	11.9	2.1	5.7		18.9	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 75-87
MONTH: FEB

HOURS (LST)	TSTMS	RAIN E/OP DRIZZLE	FRZING RAIN E/OP DRIZZLE	SNOW E/OP SLEET	FAIL	% OBS WITH PRECIP	FOG	SMOKE E/OP HAZE	BLOWING SNOW	DUST E/OP SAND	% OBS W/CBSI TO VISION	TOTAL OBS
00-02		3.3	1.1	29.9		34.0	16.7	.6	.8		17.7	846
03-05		2.1	.6	32.0		34.5	16.3	.8	1.1		18.0	846
06-08		2.1	1.1	36.1		38.6	18.9	1.2	1.1		20.8	846
09-11	.1	2.7	1.1	32.6		35.3	23.6	4.1	2.2		19.3	846
12-14		2.6	.7	27.5		30.0	17.3	6.9	3.9		27.4	846
15-17		2.4	.6	24.7		27.0	14.3	5.8	2.6		22.1	846
18-20		1.9	1.3	22.7		25.2	16.3	2.6	.9		20.7	846
21-23		2.8	1.9	28.5		32.0	16.7	1.3	1.2		18.6	846
TOTALS	.0	2.5	1.1	29.3		32.1	17.6	2.9	1.7		21.9	6768

GLOBAL CLIMATOLOGY BRANCH
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AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87
MONTH: MAR

FOURS (LST)	TSTMS	RAIN C/OR DRIZZLE	FRZING RAIN C/OR DRIZZLE	SNOW C/OR SLEET	FAIL	% OBS WITH PRECIP	FOG	SMOKE C/OR HAZE	BLOWING SNOW	DUST C/OR SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02	.1	6.6	.2	18.2		24.4	17.2	1.0	.9		18.4	930
03-05		5.1	.4	20.6		25.1	18.6		1.0		19.6	930
06-08		5.9	1.0	18.6		24.9	24.5	1.4	1.4		26.7	930
09-11		5.6	.9	17.7		23.5	21.7	3.9	2.3		27.4	930
12-14	.1	7.3	.2	13.2		20.2	15.4	5.1	3.1		23.0	930
15-17	.1	5.4	.6	12.3		18.1	14.7	4.5	1.5		20.0	930
18-20	.1	5.6	1.0	12.9		19.1	17.1	3.5	.9		20.6	930
21-23	.4	5.2	1.0	17.8		23.4	16.3	1.9	.6		18.3	930
TOTALS	.1	5.9	.7	16.4		22.3	18.2	2.7	1.5		21.6	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR

FOURS (LST)	TSTMS	RAIN C/OR DRIZZLE	FRZING RAIN C/OR DRIZZLE	SNOW C/OR SLEET	FAIL	% OBS WITH PRECIP	FOG	SMOKE C/OR HAZE	BLOWING SNOW	DUST C/OR SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02	.7	12.3		8.1	.1	19.4	17.7	1.7	.6		19.4	900
03-05	.4	10.4	.1	4.0		17.2	20.3	1.1	.6		21.4	900
06-08		11.6	.2	6.4		19.3	25.1	3.0	.8		27.9	900
09-11	.1	12.2		7.9		19.0	18.8	5.2	.7		23.8	900
12-14	.3	10.3		6.8		16.6	13.9	4.3	.7		17.9	900
15-17	.3	12.7		5.4		17.8	14.2	2.4	.2		16.4	900
18-20	.2	11.9		7.7		18.6	15.4	3.2	.1		18.4	896
21-23	.1	11.7	.1	8.6		19.5	16.1	3.0	.3		18.5	897
TOTALS	.7	11.7	.1	7.6	.0	18.4	17.7	3.0	.5		20.5	7195

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY

HOURS (LST)	TSMS	RAIN L/OP DRIZZLE	FRZING RAIN L/OP DRIZZLE	SNOW L/OP SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE L/OP HAZE	BLOWING SNOW	DUST L/OP SAND	% OBS W/ OBS TO VISION	TOTAL OBS
00-02	.4	6.1		.5		8.6	17.1	4.6			20.8	930
03-05	.3	9.2		.1		9.4	20.8	4.3			23.5	930
06-08	.4	11.9		.2		12.2	24.0	6.7			28.3	930
09-11	.2	11.0		.3		11.3	13.1	11.4			23.5	930
12-14	.4	10.8				10.8	9.9	11.8			20.8	930
15-17	2.5	10.9		.4		11.3	8.7	11.1			16.8	930
18-20	1.6	11.7		.4		12.2	12.0	10.5			21.2	930
21-23	.8	11.2		.6		11.8	15.3	8.0			21.0	930
TOTALS	.6	10.6		.3		11.0	15.1	8.6			22.2	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN

HOURS (LST)	TSMS	RAIN L/OP DRIZZLE	FRZING RAIN L/OP DRIZZLE	SNOW L/OP SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE L/OP HAZE	BLOWING SNOW	DUST L/OP SAND	% OBS W/ OBS TO VISION	TOTAL OBS
00-02	.5	6.9				6.9	15.2	6.3			19.1	900
03-05	1.6	6.1				6.1	19.8	5.4			22.9	900
06-08	.9	10.2				10.2	20.8	9.6			27.7	900
09-11	.7	6.4				6.4	9.3	9.6			17.9	900
12-14	.6	5.7				5.7	5.4	8.3			12.8	900
15-17	1.1	6.0				6.0	5.7	9.4			13.6	900
18-20	1.1	5.3				5.3	5.8	10.0			14.8	900
21-23	.7	6.6				6.8	11.0	9.4			18.4	900
TOTALS	.9	6.9				6.9	11.6	8.5			18.4	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL

HOURS (LST)	TSTMS	RAIN L/OR GRIZZLE	FRZING RAIN L/OR GRIZZLE	SNOW L/OR SLEET	HALE	% OBS WITH PRECIP	FOG	SMOKE L/OR HAZE	BLOWING SNOW	DUST L/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	1.2	4.0				4.0	15.8	11.9			22.5	930
03-05	1.7	5.9				5.9	22.4	10.6			27.5	930
06-08	1.3	6.7				6.7	25.6	14.3			33.7	930
09-11	.9	4.6				4.6	8.3	17.3			23.9	930
12-14	1.5	4.4				4.4	5.2	17.5			20.8	930
15-17	2.5	5.5				5.5	4.5	17.1			20.6	930
18-20	2.0	4.6				4.6	6.3	18.4			23.3	930
21-23	1.9	5.2				5.2	13.5	15.9			23.4	930
TOTALS	1.6	5.2				5.2	12.7	15.4			24.5	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG

HOURS (LST)	TSTMS	RAIN L/OR GRIZZLE	FRZING RAIN L/OR GRIZZLE	SNOW L/OR SLEET	HALE	% OBS WITH PRECIP	FOG	SMOKE L/OR HAZE	BLOWING SNOW	DUST L/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	1.2	7.6				7.6	25.9	5.5			29.4	930
03-05	.8	7.0				7.0	33.7	4.6			35.4	930
06-08	.4	6.6				6.6	40.0	7.7			43.1	930
09-11	1.1	6.2				6.2	15.9	16.6			29.8	930
12-14	.9	7.1				7.1	7.7	17.2			23.2	930
15-17	2.0	7.7				7.7	6.1	16.1			22.4	930
18-20	3.0	6.4				6.4	14.4	15.3			27.1	930
21-23	1.3	7.0				7.0	23.8	12.5			22.4	930
TOTALS	1.3	7.2				7.2	21.2	11.9			30.4	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP

HOURS (LST)	TSTMS	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS W/OBS TO VISION	TOTAL OBS
00-02	1.7	12.3				12.3	24.0	5.0			26.0	900
03-05	2.0	12.0				12.0	26.7	4.2			28.2	900
06-08	1.3	13.2				13.2	36.2	7.1			38.7	900
09-11	.3	11.7				11.7	23.0	11.6			31.7	900
12-14	.7	10.3				10.3	12.8	10.6			22.1	900
15-17	.7	12.3				12.3	13.3	11.4			23.7	900
18-20	.8	13.1				13.1	18.7	10.4			26.7	900
21-23	1.0	10.9				10.9	20.2	7.3			25.4	900
TOTALS	1.1	12.0				12.0	21.9	8.5			27.6	7200

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT

HOURS (LST)	TSTMS	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS W/OBS TO VISION	TOTAL OBS
00-02	.4	9.5		2.9		11.9	21.0	3.0			22.0	930
03-05	.3	11.3		1.9		13.0	23.8	2.2			24.3	930
06-08	.3	13.1		1.8		14.7	29.7	1.6			30.0	930
09-11	.2	13.4		1.5		14.6	19.7	7.1			24.7	930
12-14	.1	13.0		.8	.1	13.7	10.8	6.5			17.2	930
15-17		9.8		.9		10.5	11.4	6.8			17.6	930
18-20	.4	10.9		1.5		12.0	14.3	6.3			19.0	930
21-23		9.7		3.0		12.0	17.0	4.0			19.6	930
TOTALS	.2	11.3		1.8	.0	12.6	18.5	4.7			21.8	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV

HOURS (LST)	TSTMS	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02		9.3		14.2		23.4	14.7	1.1	.1		15.4	900
03-05	.2	8.6	.1	16.0		24.4	15.6	1.1	.1		15.9	900
06-08		8.6	.3	19.1		27.6	20.1	1.8	.4		20.6	900
09-11	.1	10.0		16.6		26.7	22.7	4.6	.8		26.2	900
12-14		11.2		14.6		25.0	16.2	5.2	1.1		21.7	900
15-17		11.4		14.0		25.0	16.3	3.9	.8		20.4	900
18-20		12.0		17.3		28.8	17.0	2.7	.3		19.7	900
21-23		10.1	.2	15.9		26.0	15.4	1.3	.3		16.9	900
TOTALS	.0	10.3	.1	16.0		25.9	17.3	2.7	.5		19.6	7200

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC

HOURS (LST)	TSTMS	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02		4.7	1.1	32.9		37.8	15.8	.8	1.1		17.0	930
03-05		5.2	.6	35.1		40.4	14.6	.3	1.0		15.6	930
06-08		6.0	1.0	40.5		46.7	17.5	.4	1.1		18.7	930
09-11		5.2	.5	36.3		41.4	23.5	1.1	1.2		25.7	930
12-14		4.7	.6	36.2		41.1	20.2	3.2	4.0		27.1	930
15-17		4.7	1.1	33.1		38.0	19.4	4.9	3.2		26.7	930
18-20	.2	4.6	1.4	30.6		35.7	19.6	4.1	1.4		22.9	930
21-23	.1	5.5	1.2	35.3		39.5	17.6	2.7	1.4		20.3	930
TOTALS	.0	5.1	.9	35.0		40.1	18.5	2.2	1.8		21.8	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM FOURTY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87
MONTH: ALL

HOURS (LST)	ISMS	RAIN L/OP DRIZZLE	FRZING RAIN L/OP DRIZZLE	SNOW L/OP SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE L/OP HAZE	BLOWING SNOW	DUST L/OP SAND	% OBS W/ OBS TO VISION	TOTAL OBS
JAN ALL		1.4	.7	41.5		42.4	11.9	2.1	5.7		18.9	7440
FEB		.0	2.5	1.1	29.3	32.1	17.8	2.9	1.7		21.9	6768
MAR		.1	5.5	.7	10.4	22.3	18.2	2.7	1.5		21.8	7440
APR		.3	11.7	.1	7.6	.0	18.4	17.7	3.0	.5	20.5	7195
MAY		.8	10.6		.3	11.0	15.1	8.6			22.2	7440
JUN		.9	6.5			6.9	11.6	8.5			18.4	7200
JUL		1.6	5.2			5.2	12.7	15.4			24.5	7440
AUG		1.3	7.2			7.2	21.2	11.9			30.4	7440
SEP		1.1	12.0			12.0	21.9	8.5			27.8	7200
OCT		.2	11.3		1.8	.0	12.8	18.5	4.7		21.8	7440
NOV		.0	10.3	.1	16.0	25.9	17.3	2.7	.5		19.6	7200
DEC		.0	5.1	.9	35.0	40.1	18.5	2.2	1.8		21.8	7440
TOTALS		.5	7.5	.3	12.3	.0	19.7	16.9	6.1	1.0	22.5	87643

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 62, 64-87
MONTH: ALL

MONTH	TSTMS	RAIN L/OP DRIZZLE	FRZING RAIN G/OR DRIZZLE	SNOW G/OR SLEET	HALE	1 OBS W/TH PRECIP	FOG	SMOKE F/OR HAZE	BLOWING SNOW	DUST G/OR SAND	1 OBS W/GBST TO VISION	TOTAL OBS
JAN	1.3	14.7	9.7	80.8		24.7	30.4	10.0	17.7		44.7	713
FEB	1.2	14.7	8.3	71.5		76.0	30.7	16.8	10.9		43.3	649
MAR	2.6	24.6	6.7	51.5	.1	67.2	38.6	17.2	8.2		45.6	682
APR	7.3	44.1	1.2	24.7	.5	56.2	36.8	15.8	1.4		41.1	660
MAY	12.4	49.8	.1	5.0	.7	50.8	40.1	22.4			44.9	695
JUN	18.2	51.5			.8	51.5	46.1	31.5		.3	52.7	660
JUL	22.9	47.2			.4	46.9	44.2	37.5			52.7	693
AUG	28.4	49.0			.6	49.1	53.0	37.6			58.4	692
SEP	13.6	57.3		.3	.3	57.3	52.7	27.7			55.9	660
OCT	4.3	55.1		12.8	.5	60.4	45.8	21.9			46.6	657
NOV	.8	40.0	1.0	48.6		73.0	42.7	14.1	2.5		47.1	630
DEC	.6	25.2	10.3	77.0		66.6	38.0	14.4	11.3		49.9	682
TOTALS	8.6	39.7	3.1	31.0	.3	63.3	41.6	22.2	4.3	.0	48.8	8073

PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	BBBBBBBB
PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	BBBBBBBB
PP PP	AA AA	RR RR	TT	BB BB
PP PP	AA AA	RR RR	TT	BB BB
PPPPPPPP	AA AA	RRRRRRRR	TT	BBBBBBBB
PPPPPPPP	AAAAAA	RRRRRRRR	TT	BBBBBBBB
PP	AA	RR	TT	BB
PP	AA AA	RR RR	TT	BB BB
PP	AA AA	RR RR	TT	BB BB
PP	AA AA	RR RR	TT	BB BB

PRECIPITATION, SNOWFALL AND SNOW DEPTH SUMMARIES

PERCENTAGE FREQUENCY OF VARIOUS DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES:

THESE SUMMARIES DERIVE FROM SUMMARY OF DAY DATA.

DATA IS SUMMARIZED MONTHLY AND ANNUALLY WITH ALL YEARS COMBINED.

DISPLAYED ARE: PERCENT OF DAYS WITH MEASURABLE AMOUNTS, A PERCENT OF DAYS WITH NO AMOUNTS, TRACES, GIVEN AMOUNTS, MEANS, GREATEST AMOUNTS AND LEAST AMOUNTS (THE STATISTICAL VALUES ARE NOT INCLUDED IN THE SNOW DEPTH SUMMARY BECAUSE OF THEIR DOUBTFUL AND LIMITED VALUE).

ALSO PROVIDED ARE THE OBSERVATION COUNTS.

A VALUE OF ".0" IN THESE TABLES INDICATES LESS THAN .05% WHICH USUALLY INDICATES ONLY ONE OCCURRENCE.

EXTREME DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA

PRESENTED ARE THE EXTREME DAILY AMOUNTS OF PRECIPITATION, SNOWFALL AND SNOW DEPTH BY INDIVIDUAL MONTH AND YEAR.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATIONS COUNTS.

AN ASTERISK "*" PRINTED IN THE TABLES INDICATES THAT THE EXTREME VALUE FOR THAT YEAR AND MONTH DERIVES FROM AN INCOMPLETE MONTH (AT LEAST ONE DAY OF THE MONTH IS MISSING).

WHEN A MONTH HAS VALID OBSERVATIONS REPORTED BUT NO OCCURRENCES, ZEROS ARE DISPLAYED IN THE TABLES:

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)

TOTAL MONTHLY AMOUNTS OF PRECIPITATION AND SNOWFALL SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA.

DATA PRESENTED BY YEAR AND MONTH.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

AN ASTERISK "*" IN THE TABLES INDICATES THAT ONE OR MORE DAYS WERE MISSING FOR THE MONTH.

NO OCCURRENCES FOR THE MONTH ARE INDICATED BY ZEROS.

IF THE AMOUNT IS A TRACE, THEN "TRACE" IS PRINTED IN THE TABLES.

STATISTICAL VALUES DO NOT INCLUDE MEASUREMENTS FROM INCOMPLETE MONTHS.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

AMOUNTS IN INCHES

MONTH	NONE	TRACE	.01	.02 TO .05	.06 TO .10	.11 TO .25	.26 TO .50	.51 TO 1.00	1.01 TO 2.50	2.51 TO 5.00	5.01 TO 10.00	10.01 TO 20.00	OVER 20.00	# DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS	
																MEAN	GREATEST LE
JAN	13.9	40.9	8.3	15.0	8.2	6.2	4.1	1.2	.2					45.2	868	1.63	3.31
FEB	21.0	39.6	8.0	11.9	7.5	6.8	3.2	2.0	.1					39.4	791	1.33	3.17
MAR	13.9	25.9	6.7	9.4	7.3	8.9	4.4	3.5	.1					40.2	868	2.01	4.44
APR	43.3	18.2	4.9	8.8	5.2	8.0	7.6	3.8	.1					38.5	840	2.25	4.15
MAY	49.9	12.1	4.4	7.8	5.3	6.4	6.8	2.8	1.6					38.0	837	2.93	8.29
JUN	49.5	13.7	3.7	7.7	6.7	6.8	5.6	5.1	1.9	.1				36.8	810	3.10	8.37
JUL	53.9	14.2	3.0	7.9	3.7	6.2	4.5	3.9	2.4	.1				31.8	837	3.06	7.17
AUG	51.7	13.7	3.3	7.6	3.5	6.9	6.6	5.3	1.9	.1				35.2	837	3.33	5.92
SEP	43.6	14.0	3.3	10.1	6.9	8.6	7.3	4.4	1.7	.1				42.4	840	3.22	7.12
OCT	40.8	19.6	4.8	11.6	6.1	9.0	5.2	2.3	.6					39.6	868	2.08	4.78
NOV	29.3	27.6	4.5	11.6	7.4	10.5	6.4	2.1	.4					43.1	840	2.13	7.45
DEC	14.3	34.2	8.4	17.9	7.0	10.9	5.0	1.7	.6					51.5	868	2.05	4.44
ANN	37.1	22.8	5.3	10.6	6.2	8.3	5.6	3.3	1.0	.2				40.1	10194	25.12	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	24 HOUR AMOUNTS IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									.59	.93	.49	.42	
60	.51	.55	.68	.88	1.41	1.64	2.34	.56	.50	.45	.56	.32	2.34
61	.05	.49	.85	.85	.44	.62	.62	1.23	1.83	.28	.81	.36	1.83
62	.77	.69	.73	.29	1.25	1.08	.51	.86	.91	.23	.34	.59	1.25
63	.37	.21	.91	.64	1.87	1.03	.68	1.37	.80	.34	.30	.46	1.87
64	.49	.16	.66	.63	1.25	.56	1.15	.89	.93	.35	1.00	.40	1.25
65	.87	.52	.55	1.12	2.21	.95	.34	.97	.71	.36	.85	.71	2.21
66	.29	.55	.71	.22	.33	.92	.53	.37	.94	.74	1.82	.62	1.82
67	1.11	.93	.57	.62	.46	1.78	1.24	1.07	.50	.52	.94	.54	1.78
68	.29	.69	.30	.51	1.47	.62	1.02	1.74	3.02	.58	.94	.86	3.02
69	.45	.13	.51	.58	.82	2.52	.79	.79	.47	1.46	.41	.32	2.52
70	.45	.11	.89	.85	.55	1.05	1.57	.34	1.07	.43	.56	1.02	1.57
71	.58	.79	.83	.55	.61	1.65	1.73	1.53	.29	.33	.58	1.63	1.65
72	.10	.38	1.19	.44	.94	.55	1.82	1.10	1.06	.79	.38	1.23	1.82
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	1.30	.49	1.20	.52	.45	.53	.13	1.30
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
82	.72	.04	.41	.42	.38	.83	.58	.99	1.04	.30	.84	.78	1.04
83	.37	.55	.66	.67	2.11	.72	.79	.70	1.00	.92	.39	.33	2.11
84	.15	.26	.72	.88	.61	1.55	.62	1.84	1.21	.62	.94	.52	1.84
85	.54	.60	.93	.58	.62	.40	1.16	.99	.89	1.70	.35	1.28	1.70
86	.24	.45	.61	.74	.65	.78	1.83	.81	1.54	1.28	.36	.17	1.83
87	.37	.28	.50	.28									
PLAN	.506	.445	.641	.636	.744	1.023	1.209	1.055	.970	.648	.620	.601	1.661
S.D.	.37	.249	.254	.219	.530	.519	.673	.504	.566	.398	.326	.344	.488
TOTAL OBS	664	791	868	540	837	810	837	837	840	868	840	668	10104

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

MONTHLY PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

TOTAL MONTHLY PRECIPITATION IN INCHES													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59									2.97	3.78	2.47	2.18	
60	1.68	1.45	1.48	3.17	4.29	3.74	2.90	1.85	2.06	2.15	2.06	.96	27.79
61	.16	1.41	2.67	1.68	1.45	2.70	1.65	2.66	5.59	1.14	2.45	1.33	25.29
62	2.33	2.79	.86	1.43	3.49	2.94	.95	2.82	2.87	1.11	.78	1.61	23.98
63	.96	.67	3.35	1.44	5.46	3.78	2.11	4.08	1.92	.95	1.67	1.85	28.24
64	1.28	.36	1.91	3.34	3.04	1.12	4.30	3.03	3.63	1.10	2.34	1.52	26.97
65	2.79	1.86	1.25	3.43	4.24	2.55	1.04	3.65	4.64	1.37	2.70	1.93	31.85
66	1.50	1.18	2.80	1.61	1.05	2.41	.91	1.76	2.15	2.12	7.45	2.38	27.32
67	3.15	2.11	1.14	3.08	1.94	8.14	3.12	3.17	1.98	2.28	2.67	2.39	35.17
68	1.19	1.75	.67	1.57	2.55	3.60	2.37	5.30	6.67	1.98	2.98	3.02	34.05
69	2.23	.74	1.48	1.71	3.11	8.37	1.82	2.50	2.18	4.76	1.64	1.26	31.42
70	1.81	.27	2.03	2.00	1.79	1.96	4.41	.92	4.76	1.47	2.18	3.32	27.12
71	2.42	3.17	2.75	1.71	2.87	5.88	4.00	4.08	1.00	.61	2.30	4.44	35.23
72	.47	1.08	3.35	1.69	2.18	1.44	3.51	4.85	2.60	2.03	1.14	3.83	28.17
73	1.02	.60	1.42	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	27.06
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	.61	24.40
77	.72	2.19	2.49	2.15	1.85	1.39	3.34	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	1.26	1.55	2.26	26.75
79	1.79	1.06	2.13	3.02	2.50	2.75	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	.46	1.93	1.01	3.41	1.14	2.11	1.50	2.20	2.38	2.98	1.12	1.17	21.41
82	2.06	.12	2.33	1.62	1.68	3.37	1.65	3.07	3.61	1.45	2.73	2.81	26.50
83	1.80	1.48	2.82	2.70	8.29	1.76	2.48	2.62	3.50	3.90	1.74	1.92	35.01
84	.89	.81	2.22	2.89	1.89	2.48	2.35	5.92	3.76	2.79	2.01	2.22	30.63
85	1.71	2.77	2.77	2.63	2.70	1.00	3.80	4.74	3.07	2.80	3.24	2.60	33.83
86	1.04	1.06	2.30	1.86	2.41	3.36	5.24	1.83	7.12	2.83	.61	.95	30.65
87	.94	.97	.94	1.20									
MEAN	1.628	1.331	2.014	2.249	2.926	3.105	3.062	3.329	3.220	2.078	2.127	2.645	29.164
S.D.	.843	.919	.922	.825	1.548	1.819	1.560	1.744	1.692	1.087	1.255	.901	3.992
TOTAL OBS	868	791	868	640	837	810	837	837	840	868	840	868	10104

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

MONTH	AMOUNTS IN INCHES														OVER	% DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS		
	NONE	TRACE	0.1 TO 0.4	0.5 TO 1.4	1.5 TO 2.4	2.5 TO 3.4	3.5 TO 4.4	4.5 TO 6.4	6.5 TO 10.4	10.5 TO 15.4	15.5 TO 25.4	25.5 TO 50.4	OBS	MEAN				GREATEST	LEAST	
JAN	17.4	29.1	19.4	17.4	8.4	3.9	1.7	1.3	1.2	.1	.1			53.5	868	22.2	43.5	5.1		
FEB	25.0	30.5	18.7	14.8	3.9	3.5	1.5	.8	1.1	.1				44.5	791	15.4	33.4	3.6		
MAR	48.8	20.7	11.6	10.1	3.7	2.1	.9	.7	.9	.2	.1			30.4	868	13.6	35.8	3.4		
APR	76.0	12.7	5.1	2.4	1.9	1.0	.4	.6						11.3	840	4.2	12.3	TRACE		
MAY	95.2	3.7	.6	.2	.1		.1							1.1	837	.3	3.7	.0		
JUN	100.0														810	.0	.0	.0		
JUL	100.0														837	.0	.0	.0		
AUG	100.0														937	.0	.0	.0		
SEP	99.6	.4													840	TRACE	TRACE	.0		
OCT	88.2	9.0	1.5	.5	.3									2.8	868	.6	4.3	.0		
NOV	54.0	26.7	7.1	6.7	1.2	2.1	1.1	.7	.1	.2				19.3	840	6.4	30.5	.3		
DEC	23.0	26.5	19.0	16.1	7.8	3.2	1.6	1.6	.9	.1				50.5	868	20.7	46.3	4.7		
ANN	68.9	13.3	6.9	5.7	2.3	1.3	.6	.5	.3	.1	.0			17.8	10104	85.4				

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	24 HOUR AMOUNTS IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									.0	.2	4.7	3.7	
60	6.1	6.4	2.3	.3	.0	.0	.0	.0	.0	.7	1.3	4.2	6.4
61	1.1	3.4	8.5	1.3	.8	.0	.0	.0	.0	.0	1.4	2.3	8.5
62	8.5	7.0	8.3	2.4	TRACE	.0	.0	.0	.0	.9	4.1	7.4	8.5
63	7.1	4.1	9.1	2.9	TRACE	.0	.0	.0	.0	.0	.3	7.7	9.1
64	5.0	1.0	7.0	3.3	.0	.0	.0	.0	.0	1.0	2.8	2.4	7.0
65	9.7	8.1	5.7	4.6	.0	.0	.0	.0	TRACE	1.0	2.3	2.7	6.7
66	3.8	2.3	2.2	1.6	.3	.0	.0	.0	.0	TRACE	15.0	3.2	15.0
67	11.2	8.4	6.7	.6	TRACE	.0	.0	.0	.0	.2	6.4	2.7	11.2
68	3.6	2.9	4.3	.4	TRACE	.0	.0	.0	.0	1.5	2.9	5.1	9.1
69	7.7	3.5	3.0	TRACE	TRACE	.0	.0	.0	.0	2.4	3.6	5.4	7.7
70	4.2	1.0	10.0	4.1	.2	.0	.0	.0	.0	TRACE	6.9	6.4	10.0
71	10.3	4.9	12.1	2.0	TRACE	.0	.0	.0	.0	.0	4.7	8.1	12.1
72	1.7	4.6	5.2	1.5	.0	.0	.0	.0	.0	.2	1.7	6.3	6.3
73	2.9	2.2	8.0	5.7	TRACE	.0	.0	.0	.0	.0	3.0	5.7	6.0
74	2.6	10.1	2.0	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	5.6	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	6.2	16.3
79	8.5	3.8	2.6	4.3	1.8	.0	.0	.0	.0	.2	3.0	5.5	6.5
80	3.5	2.5	4.1	5.6	.0	.0	.0	.0	.0	1.3	3.8	11.9	11.9
81	3.2	11.2	3.0	TRACE	.0	.0	.0	.0	.0	.2	3.8	5.6	11.2
82	7.4	.9	5.7	1.5	.0	.0	.0	.0	.0	.2	3.2	1.5	7.4
83	3.8	5.1	10.8	5.0	.0	.0	.0	.0	.0	TRACE	3.2	3.9	10.8
84	3.4	4.1	2.4	3.9	.3	.0	.0	.0	TRACE	.0	2.4	3.2	4.1
85	0.0	0.5	17.3	1.5	.0	.0	.0	.0	.0	TRACE	4.8	5.2	17.3
86	3.5	7.5	4.0	2.0	TRACE	.0	.0	.0	.0	.1	3.1	2.6	7.5
87	4.2	6.8	2.2	4.5									
MEAN	5.78	4.94	5.77	2.43	.27	.00	.00	.00	TRACE	.41	3.94	5.19	9.29
S.D.	3.363	2.657	3.649	1.754	.781	.000	.000	.000	.000	.608	2.647	2.559	3.206
TOTAL OBS	868	791	868	840	837	810	817	837	840	868	840	868	10104

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPHA MI

PERIOD OF RECORD: 59-87

YEAR	TOTAL MONTHLY SNOWFALL IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									.0	.2	17.0	14.3	
60	19.0	19.5	8.4	1.0	.0	.0	.0	.0	.0	.9	2.1	14.7	65.6
61	5.1	9.2	19.0	3.2	1.5	.0	.0	.0	.0	.0	2.2	12.9	52.1
62	29.2	37.1	8.4	3.0	TRACE	.0	.0	.0	.0	1.1	5.4	21.8	99.0
63	16.8	11.4	19.1	5.3	TRACE	.0	.0	.0	.0	.0	.3	25.5	77.4
64	4.1	5.7	15.2	3.5	.0	.0	.0	.0	.0	1.0	7.0	16.2	60.7
65	32.5	20.8	11.5	6.6	.0	.0	.0	.0	TRACE	1.0	5.2	6.5	84.3
66	21.1	5.3	9.9	4.8	.3	.0	.0	.0	.0	TRACE	30.5	15.2	87.1
67	32.6	33.4	10.4	.6	TRACE	.0	.0	.0	.0	.2	10.9	5.1	97.2
68	13.6	15.2	5.6	.5	TRACE	.0	.0	.0	.0	1.5	14.3	35.2	85.9
69	25.7	4.1	7.7	TRACE	TRACE	.0	.0	.0	.0	4.3	5.8	25.4	77.0
70	28.6	5.7	20.0	4.2	.2	.0	.0	.0	.0	TRACE	11.5	46.3	116.8
71	43.2	25.0	35.8	4.2	TRACE	.0	.0	.0	.0	.0	12.0	18.3	138.5
72	8.6	15.9	27.3	3.3	.0	.0	.0	.0	.0	.2	4.7	42.5	102.5
73	9.6	8.3	9.6	8.8	TRACE	.0	.0	.0	.0	.0	4.2	24.2	64.7
74	13.9	17.4	4.8	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	34.3	19.0	10.9	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	47.5	16.8	8.5	.1	TRACE	.0	.0	.0	.0	TRACE	7.8	29.1	105.6
79	27.3	13.5	4.8	9.1	2.2	.0	.0	.0	.0	.2	6.2	20.0	79.3
80	12.0	11.9	15.7	12.3	.0	.0	.0	.0	.0	1.5	4.6	32.2	90.1
81	14.0	20.5	9.3	TRACE	.0	.0	.0	.0	.0	.3	3.9	16.0	66.0
82	39.8	3.6	20.1	3.6	.0	.0	.0	.0	.0	.2	4.7	4.7	76.7
83	22.4	19.3	16.7	7.1	.0	.0	.0	.0	.0	TRACE	5.5	22.1	91.7
84	21.2	8.8	9.2	7.4	.3	.0	.0	.0	TRACE	.0	4.5	15.3	66.7
85	40.6	30.7	26.8	4.8	.0	.0	.0	.0	.0	TRACE	15.4	27.7	146.0
86	17.2	16.0	13.6	3.6	TRACE	.0	.0	.0	.0	.1	4.1	11.1	64.7
87	12.3	17.2	3.5	7.9									
MEAN	22.16	15.38	13.59	4.16	.31	.00	.00	.00	TRACE	.55	8.44	20.67	85.74
S.D.	11.197	7.778	7.776	3.688	.843	.000	.000	.000	.000	.764	6.399	10.135	22.602
TOTAL OBS	869	791	868	840	837	810	837	837	840	868	840	868	10104

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

PCATF	AMOUNTS IN INCHES														OVER	% DAYS WITH MEAS AMTS	TOTAL CBS	MONTHLY AMOUNTS		
	NONE	TRACE	1	2	3	4 TO 6	7 TO 12	13 TO 24	25 TO 36	37 TO 49	49 TO 60	61 TO 120	120	120				MEAN	GREATEST	LEAST
JAN	1.3	2.7	4.0	5.5	7.4	16.6	30.3	29.6	2.4							95.9	868			
FEB	1.1	6.3	3.4	3.5	3.8	14.5	29.5	31.1	6.4	.3						92.5	791			
MAR	15.9	12.9	7.3	4.6	3.7	11.2	23.0	19.5	2.0							71.2	868			
APR	71.8	13.8	4.6	3.1	1.8	4.2	.7									14.4	840			
MAY	99.0	.5	.2	.2												.5	837			
JUN	100.0																810			
JUL	100.0																837			
AUG	100.0																837			
SEP	100.0																840			
OCT	96.7	2.8	.5	.1												.6	868			
NOV	62.9	18.7	6.1	3.3	1.5	3.2	2.1	.2								18.5	840			
DEC	8.5	15.4	10.9	13.0	10.7	19.1	17.9	4.4								76.0	868			
ANN	63.1	6.1	3.1	2.8	2.6	5.7	8.6	7.1	.9	.7						30.8	10104			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	DAILY SNOW DEPTH IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59										TRACE	8	6	
60	13	16	16	2	0	0	0	0	0	1	1	6	18
61	7	6	11	1	TRACE	0	0	0	0	0	TRACE	3	11
62	17	24	28	1	0	0	0	0	0	TRACE	4	10	28
63	16	16	19	2	1	0	0	0	0	0	TRACE	9	19
64	9	2	6	4	0	0	0	0	0	1	4	4	9
65	13	15	13	6	0	0	0	0	0	TRACE	2	3	15
66	12	10	3	1	0	0	0	0	0	0	17	17	17
67	17	33	27	1	0	0	0	0	0	TRACE	7	3	30
68	6	7	8	TRACE	0	0	0	0	0	TRACE	6	20	20
69	27	10	5	1	0	0	0	0	0	2	3	9	27
70	15	13	10	5	0	0	0	0	0	0	6	18	18
71	28	28	26	7	0	0	0	0	0	0	4	11	28
72	10	10	15	6	0	0	0	0	0	TRACE	1	17	17
73	10	6	8	7	0	0	0	0	0	0	3	11	11
74	9	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	0	0	0	0	1	3	8	24
77	18	11	9	1	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	7	9	6	0	0	0	0	0	TRACE	TRACE	12	12
81	18	25	3	0	0	0	0	0	0	TRACE	4	3	25
82	28	19	20	2	0	0	0	0	0	TRACE	3	1	28
83	8	12	12	4	0	0	0	0	0	0	4	12	12
84	20	25	3	3	TRACE	0	0	0	0	0	2	5	25
85	19	37	28	2	0	0	0	0	0	0	7	14	37
86	21	17	20	1	0	0	0	0	0	0	3	6	21
87	10	17	9	7									
MEAN	15.8	16.8	13.7	3.3	.2	.0	.0	.0	.0	.2	4.3	5.1	20.3
S.D.	7.382	8.908	7.717	2.335	.557	.000	.000	.000	.000	.475	3.876	5.231	7.450
TOTAL OBS	868	791	868	840	837	610	837	837	840	868	940	868	10104

NOTE * (BASED ON LESS THAN FULL MONTHS)

PPPPPPP	AAAAA	RPPPPRR	TTTTTTTT	CCCCC
PPPPPPPP	AAAAAAAA	RPPPPRRR	TTTTTTTT	CCCCCCCC
PP PP	AA AA	RR RR	TT	CC CC
PP PP	AA AA	RR RR	TT	CC
PPPPPPPP	AA AA	RRRRRRRR	TT	CC
PPPPPPPP	AAAAAAAA	RPPPPRRR	TT	CC
VP	AAAAAAAA	RR RR	TT	CC
PP	AA AA	RR RR	TT	CC CC
PP	AA AA	RR RR	TT	CCCCCCCC
PP	AA AA	RR RR	TT	CCCCC

SURFACE WIND SUMMARIES

EXTREME VALUES OF PEAK WINDS

DATA DERIVED FROM SUMMARY OF DAY DATA.

VALUES PRESENTED BY INDIVIDUAL MONTH AND YEAR WITH ALL YEARS COMBINED.

SPEEDS PRESENTED IN KNOTS.

DIRECTIONS PRESENTED IN 16 COMPASS POINTS FROM BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968.
COMMENCING JULY 1968 DIRECTIONS PRESENTED IN TENS OF DEGREES.

AN ASTERISK "*" IN THE TABLES INDICATES THAT THE VALUE IS BASED ON AN INCOMPLETE MONTH OF THREE OR MORE MISSING DAYS.

MEANS AND STANDARD DEVIATIONS PRESENTED DO NOT INCLUDE INCOMPLETE MONTHS. FOUR OR MORE MONTHS ARE NEEDED TO COMPUTE THESE STATISTICS AND INCOMPLETE MONTHS ARE NOT INCLUDED.

TABLES ALSO INCLUDE THE OBSERVATION COUNTS.

BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESENTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN 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.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITY IS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF ".0" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

EXTREME VALUES OF SURFACE WINDS
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 74-87

YEAR	DAILY PEAK GUSTS IN KNOTS												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
74											NW *30	N 30	
75	SW 45	NE 34	E 35	SW 42	NW 35	W 27	W 39	NW 31	NW 27	SW 28	SW 49	SW 33	SW 49
76	SE 30	NW 35	SW 37	WSW 27	NW 32	NW 30	SW 43	W 28	W 34	NW 36	NW 25	NW 32	SW 43
77	NW 37	W 32	SW 40	NW 35	SW 39	W 40	SW 36	NW 37	WNW 36	NW 38	SW 35	W 35	SW 40
78	N 45	NE 26	NW 38	NW 39	SW 38	SW 27	SW 33	NW 28	W 31	SW 30	SW 36	NW 34	N 45
79	NW 29	W 34	NW 33	W 52	NW 30	NW 35	SE 28	NW 29	NW 26	SE 34	SW 41	NW 35	W 52
80	SW 46	NW 31	NW 35	N 39	NW 30	NW 30	NW 28	NW 23	SW 36	NW 34	NW 31	NW 37	SW 46
81	NW 32	NW 29	N 31	SW 42	N 28	NW 28	N 26	N 23	SW 35	W 36	W 31	NW 28	SW 42
82	NW 35	W 32	SW 47	W 43	S 38	NW 27	S 46	W 27	NW 27	W 35	NW 33	NW 34	SW 47
83	S 27	NE 26	N 30	SE 33	E 30	W 33	N 25	N 37	W 32	NW 34	NW 30	SE 29	N 37
84	NW 38	N 34	NW 34	W 45	N 27	SW 30	NW 29	SW 34	NW 28	NW 30	W 29	SW 45	W 45
85	NW 29	NW 31	SE 41	NW 37	SW 38	SE 38	NW 29	E 25	S 32	S 33	SW 43	NW 30	SW 43
86	NW 35	E 27	NW 36	NW 34	W 36	N 32	NW 31	NW 32	NW 29	W 33	SW 35	SW 28	NW 36
87	NW 30	N 47	W 33	NW 39									
MEAN	35.2	32.2	36.2	39.0	33.4	31.4	32.8	29.5	31.1	33.4	34.8	33.1	43.8
S.D.	6.635	5.464	4.580	6.218	4.379	4.358	6.824	4.834	3.655	2.875	6.699	4.609	4.654
TOTAL OBS	403	366	403	390	372	367	371	372	360	371	374	403	4545

NOTES * (BASED ON LESS THAN FULL MONTHS)
% (BASED ON LESS THAN FULL MONTHS AND *100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPHA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-60	
N	.3	.5	1.5	2.0	.2						4.6	10.1
NNE		.5	.3	.1							1.0	7.3
NE	.2	.4	.8	.6	.2						2.3	9.9
ENE		.3	.2	.4							1.1	9.7
E		.1	.6	.5	.1						1.6	10.4
ESE	.2	.2	.9	.5	.1	.1					2.0	10.1
SE	.4	.2	1.0	.2	.2						2.0	8.7
SSE	1.0	1.5	.9	.3							3.7	6.2
S	1.3	3.4	4.4	1.6	.2						11.0	7.5
SSW	.6	2.6	2.8	.6							6.7	7.0
SW	1.1	3.0	3.5	1.1							8.7	7.0
WSW	.5	4.1	4.6	.5							9.8	6.8
W	1.6	4.4	5.6	1.6	.4						13.7	7.5
WNW	.1	3.2	5.7	2.6	.2	.1					11.9	8.7
NW	.5	1.2	2.4	2.4	.4						6.9	9.7
NNW	.3	.3	1.0	1.3	.2						3.1	10.0
VARIABLE												
CALM	////////////////////										10.0	////
TOTALS	8.3	26.1	36.5	16.6	2.4	.2					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.8	.8	2.2	2.4	.1						6.1	9.3
NNE	.2	.1	.2	.5	.1	.2					1.4	12.0
NE	.1	.3	1.0	1.4	.1						2.9	10.4
ENE	.2	.1	.3	.1							.8	7.1
E		.3	.9	.3							1.5	8.3
ESE	.1	.1	1.0	.4	.2						1.8	9.9
SE	.1	.6	.3	.2	.1						1.4	8.0
SSE	.3	1.4	.0	.5							3.5	6.7
S	1.0	4.2	4.6	.8	.3						10.9	7.2
SSW	.6	3.0	2.4	.2							6.3	6.2
SW	1.2	3.3	2.4	1.2	.1						8.2	6.8
WSW	.6	5.2	2.7	1.1							9.6	6.5
W	.6	6.5	5.2	1.6	.1						14.0	7.1
WNW	.6	2.9	4.7	3.2	.5						12.0	9.0
NW	.1	.6	2.0	2.4	.5						5.7	10.9
NNW	.1	.5	1.1	1.4	.1						3.2	9.8
VARIABLE												
CALM	////////////////////										10.6	////
TOTALS	6.9	30.4	31.7	17.7	2.4	.2					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726350 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.1	1.2	1.1								3.9	7.9
NNE		.3	1.1	.9	.1		.3					2.7	12.2
NE	.2	.1	.5	1.0								1.8	10.2
ENE	.4	.1	.8	.2	.2							1.7	9.3
E	.1	.7	1.0	.3								1.6	8.5
ESE	.3	.4	.2	.1								1.1	5.9
SE	.6	1.1	1.2	.5	.1							3.5	7.2
SSE	.2	1.6	1.1	.2								3.2	7.0
S	1.3	4.0	4.3	.9	.2							10.6	6.9
SSW	.8	2.2	3.2	.2								6.5	6.5
SW	.8	4.3	3.4	.8	.2							9.5	7.0
WSW	1.2	4.3	2.7	.6	.1							8.9	6.4
W	1.2	4.9	3.2	1.7	.1							11.2	7.1
WNW	.5	1.7	4.8	3.8	.2	.1						11.2	9.6
NW	.1	1.4	2.9	3.5	.3							8.3	10.2
NNW	.5	.4	1.6	1.5	.5							4.6	10.0
VARIABLE													
CALM	////////////////////											9.7	////
TOTALS	8.7	26.2	33.4	17.4	2.2	.1	.3					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 7P-87
MONTH: JAN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	1.2	2.2	1.1	.1	.1	.2				5.7	10.3
NNE	.1	.2	.4	.9	.1						1.4	10.1
NE	.1	.4	1.1	1.1	.1						2.9	10.0
NNE		.1	.3	.6							1.2	11.1
E		.3	.4	1.0							1.7	10.3
ESE	.1	.3	.6	.2							1.4	8.6
SE	.3	.6	1.4	.5							2.9	7.5
SSE	.3	1.4	1.7	1.2							4.6	8.0
S	.6	1.5	4.4	2.2	.1						9.2	8.6
SSW	.4	1.8	2.7	1.2							6.1	7.7
SW	.2	2.2	4.0	.5	.2	.1					7.6	8.1
WSW	.4	3.5	3.5	1.4	.2						9.1	7.7
W	.6	4.4	3.7	2.7	.2						11.7	7.9
WNW	.9	1.4	5.6	3.6	.1	.2					11.9	9.5
NW	.2	1.7	3.2	4.1	1.4						10.6	11.0
NNW	.2	.9	1.7	2.0	.6						5.5	10.9
VARIABLE												
CALM	////////////////////										5.8	////
TOTALS	4.8	22.8	37.0	25.7	3.2	.4	.2				100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 72-87
MONTH: JAN HOURS: 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.6	2.4	2.9	.3		.1				7.5	9.9
NNE	.4	.2	1.0	1.4							3.0	9.4
NE		.2	1.4	1.0							2.6	10.0
NNE	.1	.2	.9	.6	.1						1.9	10.2
E	.2	.2	.6	.3							1.4	8.1
ESE	.1	.4	.5	1.4	.1						2.6	10.3
SE	.1	.5	.9	1.1							2.6	9.5
SSE	.4	.5	1.0	2.4	.2						4.9	9.8
S	.2	1.2	5.1	2.9	.4	.1					10.0	9.7
SSW	.1	.8	2.0	1.3							4.2	8.9
SW		.9	3.7	1.6	.2						6.6	9.6
WSW	.2	1.0	4.1	3.3	.4	.1					9.5	10.6
W	.1	1.7	3.9	4.1	.3	.1					10.2	10.1
WNW		.4	3.8	6.6	1.0						11.7	11.9
NW		.5	2.7	7.2	1.7						12.2	12.9
NNW	.1	1.1	1.6	3.4	1.3		.1				7.6	12.0
VARIABLE												
CALM	////////////////////										1.6	////
TOTALS	2.9	11.4	35.4	41.7	6.5	.3	.2				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: JAN HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.1	1.7	2.8	2.3	.3							8.4	9.5
NNE		.6	1.1	1.7	.1							3.5	10.0
NE		.4	.6	.5	.3							1.9	10.3
NNE	.1	.2	.2	.4								1.1	8.6
E	.2	.6	.8	.2								1.8	7.2
ESE		1.4	1.2	.2								3.3	8.3
SE	.1	.7	.9	2.3								3.9	10.7
SSE	.2	.5	1.9	2.0								5.1	9.5
S	.3	2.3	2.4	2.8	.1							8.9	9.0
SSW	.2	1.2	1.1	.6								3.1	7.4
SW	.2	1.5	1.9	1.5	.1	.1						5.4	8.9
WSW	.1	1.4	2.6	2.7	.5	.1						7.8	10.2
W	.3	1.7	5.1	5.3	.2							12.2	10.2
WNW		1.7	6.0	6.9	.6							14.8	10.9
NW		.8	3.4	7.0	1.0							12.2	11.7
NNW		.6	2.2	2.2	.6	.3						5.9	11.9
VARIABLE													
CALM	////////////////////////////////////										.6	////	
TOTALS	1.9	17.4	36.1	39.4	4.0	.5						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.8	1.0	1.2	1.8	.2						4.9	9.0
NNE	.3	1.0	.9	.5							2.9	7.6
NE	.1	.2	.6	.3							1.3	8.8
ENE	.3	.6	.3	.5							1.8	7.6
E	.2	.2	.3	.2							1.0	7.1
ESE	.6	1.2	.3	.6	.2						3.0	7.8
SE	.3	1.0	1.7	.9	.6						4.5	9.8
SSE	.3	1.9	2.2	1.4	.1						5.9	8.3
S	1.3	3.1	2.9	2.6							9.9	7.6
SSW	.9	1.5	1.1	.9							4.2	6.9
SW	.4	1.3	1.7	.4	.3						4.2	8.1
WSW	.4	2.4	3.3	1.4		.2					7.7	8.3
W	.6	4.2	5.3	2.8	.1						13.0	6.0
WNW	.3	3.2	6.0	5.1	.2						14.8	9.3
NW	.3	2.0	3.5	4.5	.4	.1					11.0	9.8
NNW	.2	1.3	.9	1.5	.2	.3					4.5	10.5
VARIABLE												
CALM	////////////////////										5.3	////
TOTALS	7.4	26.1	32.3	25.8	2.5	.6					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/FLTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS								TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40		
N	.6	.9	1.5	1.7	.3	.1			4.6	9.4
NNE	.1	.5	.5	1.2					2.4	10.0
NE		.7	.3	.2	.1				1.1	9.4
ENE	.1	.4	.8	.1					1.4	7.8
E	.1	.7	.1	.6					1.2	9.5
ESE	.5	.5	.3	1.0	.1	.1			2.6	9.0
SE		.8	1.7	.6	.2				3.3	6.9
SSE	.3	.6	1.6	1.2	.6				4.6	10.3
S	1.4	3.9	4.0	1.3					10.5	6.9
SSW	.4	1.9	2.2	.9					5.4	7.5
SW	.8	1.8	2.8	.8	.1				6.2	7.4
WSW	.6	4.4	3.2	1.5	.1				10.0	7.3
W	.6	4.6	6.0	1.2	.3				12.8	7.5
WNW	.2	3.7	6.0	3.7	.3				13.9	8.7
NW	.3	1.0	2.7	2.9	.9				7.7	10.7
NNW	.2	.6	.5	1.7	.2				3.3	10.4
VARIABLE										
CALM	////////////////////////////////////								8.9	////
TOTALS	6.5	26.1	34.7	20.2	3.3	.2			100.0	7.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.1	2.0	2.0	.2	.0	.0				5.7	9.5
NNE	.1	.5	.7	.9	.1	.0	.0				2.3	9.9
NE	.1	.7	.8	.3	.1						2.1	10.0
ENE	.2	.7	.5	.4	.0						1.4	9.0
E	.1	.7	.6	.5	.0						1.5	8.7
ESE	.3	.6	.6	.6	.1	.0					2.2	8.8
SE	.3	.7	1.1	.8	.2						3.0	9.0
SSE	.4	1.3	1.4	1.2	.1						4.4	8.4
S	.9	3.0	4.1	1.9	.2	.0					10.1	7.9
SSW	.5	1.9	2.2	.7							5.3	7.2
SW	.6	2.3	2.9	1.0	.2	.0					7.0	7.7
WSW	.5	3.3	3.4	1.0	.2	.1					9.1	7.9
W	.7	4.0	4.7	2.6	.2	.0					12.3	8.1
WNW	.3	2.2	3.3	4.4	.4	.1					12.8	9.7
NW	.2	1.2	2.9	4.2	.8	.0					9.3	11.0
NNW	.2	.7	1.3	1.9	.5	.1	.0				4.7	10.9
VARIABLE												
CALM	////////////////////										6.6	////
TOTALS	5.9	22.6	34.6	25.6	3.3	.3	.1				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.7	1.1	1.4	.1						4.1	9.1
NNE	.1	1.4	1.1	.5							3.1	7.0
NE	.1	1.2	.9	1.1							3.3	8.3
ENE	.1	.2	.7	.1							1.2	8.1
E	.4	1.7	1.1	.4							3.1	6.8
ESE	.1	1.7	1.2	.5							3.4	7.0
SE	.4	1.5	1.2	.2							3.3	6.5
SSE	1.4	2.4	1.4	.2							5.4	5.5
S	1.2	3.7	4.1	.5							9.5	6.6
SSW	.6	2.0	1.7	.6							4.8	6.7
SW	.4	2.7	1.5	.6							5.2	6.8
WSW	1.1	3.4	2.4	.4	.1						7.8	6.2
W	1.2	6.1	3.9	.6	.1						11.9	6.2
WNW	1.1	3.4	4.4	1.4							10.3	7.1
NW	.2	2.2	2.1	1.7							6.0	8.3
NNW	.4	1.7	.8	1.2	.2	.1					3.9	9.2
VARIABLE												
CALM	////////////////////										13.6	////
TOTALS	7.3	35.9	29.6	11.2	.6	.1					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.9	1.2	1.9	1.1	.2						5.3	8.2
NNE	.5	.7	.9	.7	.1						2.8	8.3
NE	.2	.6	1.4								2.2	7.5
ENE	.1	.6	1.4	.1							2.2	7.5
E	.2	1.1	1.3	.2							2.8	7.1
ESE	.2	.7	.9	.4							2.2	7.2
SE		1.7	1.5	.9							4.1	8.3
SSE	1.1	1.9	1.3	.2							4.5	5.7
S	.7	4.9	4.8	.4							10.8	6.5
SSW	.2	1.9	1.7	.2							4.0	6.7
SW	.5	2.4	1.1	.5							4.4	6.3
WSW	1.3	3.7	2.1								7.1	5.6
W	1.8	7.2	4.5	.2							13.7	5.8
WNW	.7	3.1	4.6	.9	.1						9.5	7.1
NW	1.3	1.7	1.5	1.8	.1	.1					6.5	8.1
NNW	.5	.8	2.0	1.5	.1						5.0	9.4
VARIABLE												
CALM	////////////////////										12.8	////
TOTALS	10.2	33.9	33.0	9.2	.7	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	1.9	2.0	1.2	.1		.1				5.9	8.6
NNE	.1	.6	1.4	.6							3.0	8.0
NE	.5	1.2	1.1	.2							3.0	6.6
ENE		.5	.8	.4							1.7	8.6
E		.7	1.4	.4							3.0	9.0
ESE	.1	.1	.9	.2							1.4	8.3
SE	.6	1.5	2.0	.6							4.7	7.2
SSE	.9	1.1	2.2	.4							4.6	6.9
S	1.2	4.1	4.4	.6							10.3	6.7
SSW	.8	2.1	2.5	.2							5.7	6.5
SW	.6	2.7	1.4	.2							5.0	6.1
WSW	.9	3.3	1.7	.5							6.4	6.0
W	1.5	6.1	3.5	.5							11.7	6.0
WNW	.6	3.5	4.1	1.3	.1						9.7	7.5
WW	.7	1.3	1.9	1.8	.2						5.9	8.7
NNW	.5	.2	2.5	1.1	.1		.1				5.1	9.1
VARIABLE												
CALM	////////////////////										13.1	////
TOTALS	9.7	31.9	33.9	10.5	.6		.2				100.0	6.3

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.9	1.5	4.0	3.3	.1		.1				10.0	9.2
NNE	.5	.4	1.9	1.3	.2						4.8	9.2
NE	.2	.2	.9	1.4							2.8	9.7
ENE	.5	.4	.5	.8							2.1	8.8
E		.5	2.4	1.3							4.1	9.4
ESE	.4	.8	2.0	.7							3.9	7.9
SE	.4	.8	.7	1.2							3.1	8.4
SSE	.7	.9	1.2	1.3							4.0	8.3
S	.5	2.0	5.9	2.7							11.1	8.6
SSW		1.2	2.5	.7							4.4	8.1
SW	.4	1.5	3.0	.9	.1						5.9	8.0
WSW	.6	3.5	3.2	.8							8.2	7.1
W	1.3	2.1	3.8	1.4							8.6	7.5
WNW	.1	1.5	3.5	2.7	.2						8.2	9.5
NW	.2	1.2	3.2	1.9	.2						6.7	9.5
NNW	.9	.2	1.5	2.6	.1	.2					5.7	10.4
VARIABLE												
CALM	////////////////////										6.3	////
TOTALS	7.6	19.4	40.2	25.2	1.1	.2	.1				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.5	4.8	5.2	.6		.2				12.4	10.8
NNE	.1	.9	2.4	1.3							4.7	8.7
NE	.1	.1	1.2	.6							2.0	9.7
ENE	.1	.4	.9	1.2							2.6	10.0
E	.1	.4	1.9	1.8	.1						4.3	10.4
ESE		.6	2.7	2.5							5.8	10.0
SE	.1	.7	2.5	.9							4.3	8.9
SSE	.2	.7	2.1	1.3							4.4	9.1
S	.1	1.5	5.2	3.4							10.5	9.1
SSW		1.1	1.8	1.5							4.6	8.8
SW	.1	1.3	1.5	2.5							5.4	9.2
WSW		1.2	3.9	2.8							7.9	9.7
W	.2	.9	2.4	3.3	.1						7.0	9.8
NNW	.2	.9	2.2	4.3	.9						8.6	11.2
NW	.2	.2	2.5	3.7	.6						7.2	11.8
NNW	.2	1.2	1.7	3.7	.2		.1				7.1	11.0
VARIABLE												
CALM	////////////////////										1.2	////
TOTALS	2.0	14.2	39.7	40.0	2.6		.4				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.2	5.3	4.6	.4	.1					11.6	10.4
NNE	.5	1.3	1.8	.6							4.1	7.5
NE		1.1	1.1	.7							2.8	8.2
ENE	.1	.6	1.1	.5							2.5	8.0
E	.1	1.8	2.7	2.2	.1						7.0	9.0
ESE	.1	1.2	4.1	1.9							7.3	8.9
SE		.4	2.0	2.7							5.1	10.5
SSE		1.1	1.8	1.1	.1						4.0	8.9
S	.4	1.3	3.8	2.5							7.9	8.9
SSW		.4	1.1	1.0							3.2	10.3
SW		.4	2.0	1.3							3.7	9.8
WSW	.1	.5	3.7	1.7	.1						6.5	9.2
W	.1	.7	3.4	2.7	.4						7.3	10.3
WNW	.1	.7	3.4	4.4	.5						9.1	10.8
NW		.7	3.7	4.6	.6						9.6	11.0
NNW	.1	.5	2.7	3.0	.6	.1					7.0	11.0
VARIABLE												
CALM	////////////////////										1.3	////
TOTALS	1.7	14.3	43.6	36.2	2.7	.2					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	1.8	2.4	.9	.4	.1					6.1	8.5
NNE	.1	.8	.8								1.8	6.3
NE	.5	1.3	.7	.1							2.6	5.7
ENE	.2	1.4	.9	1.1							3.7	7.8
E	.5	1.9	1.9	.9	.1						4.7	7.2
ESE	.4	3.2	2.6	.7							6.9	6.8
SE	.5	1.8	3.0	1.4							6.6	7.9
SSE	.7	1.9	1.4	.4							4.4	6.3
S	.2	2.7	5.2	2.0							10.2	8.2
SSW	.4	.7	.8	1.2	.1						3.2	9.2
SW	.4	.2	1.4	.5	.1						2.6	8.3
WSW	.7	2.2	2.0	.1							5.1	6.1
W	.7	3.9	4.4	1.3							10.3	7.2
WNW	.7	2.8	5.1	3.1		.1					11.9	8.6
NW	.2	3.0	3.3	1.3	.2	.1					8.2	8.2
NNW	.5	1.1	1.9	2.0	.4						5.8	9.6
VARIABLE												
CALM	////////////////////										6.1	////
TOTALS	7.2	30.7	37.8	16.4	1.3	.4					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: FEB HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.7	1.7	1.5	.2	.1					5.3	9.1
NNE	.5	.7	.7	.6							2.5	7.2
NE	.1	.6	.7	.7							2.4	6.0
NNE	.5	1.1	.2								1.8	4.7
E	.2	1.1	1.4	.2	.7						3.2	7.7
ESE	.6	1.1	2.6	.5							4.7	7.2
SE	.1	2.5	1.7	.5							4.7	6.8
SSE	.9	1.7	1.3	.4							4.3	6.0
S	.9	3.7	3.8	1.5							9.9	7.4
SSW	.2	1.9	1.4	1.3							4.8	6.0
SW	.5	1.4	1.8	.7							4.4	7.9
WSW	.9	2.6	1.5	.6							5.7	6.4
W	1.2	7.1	3.9	.9							13.1	6.4
WNW	.4	4.7	5.1	2.2							11.7	7.9
NW	.5	1.3	2.1	1.2							6.0	8.0
NNW	.6	1.7	.6	.6	.5						3.5	8.3
VARIABLE												
CALM	////////////////////										11.9	////
TOTALS	8.5	33.8	31.4	13.2	.9	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA M1

PERIOD OF RECORD: 78-87
 MONTH: FEB HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.5	2.9	2.4	.3	.0	.1				7.6	9.5
NNE	.3	1.0	1.4	.7	.0						3.4	8.0
NF	.2	.8	1.0	.6							2.6	7.9
ENE	.2	.7	.8	.5							2.2	8.0
E	.2	1.1	1.8	.9	.1						4.0	8.5
ESE	.2	1.2	2.1	.9							4.5	8.0
SE	.3	1.4	1.8	1.1							4.5	8.1
SSE	.8	1.4	1.6	.7	.0						4.4	7.0
S	.7	3.0	4.7	1.7							10.0	7.7
SSW	.3	1.4	1.7	.9	.0						4.3	7.9
SW	.3	1.6	1.7	.9	.0						4.6	7.7
WSW	.7	2.7	2.6	.9	.0						6.4	7.1
W	1.0	4.7	3.7	1.4	.1						10.5	7.1
WNW	.5	2.5	4.1	2.5	.2	.3					9.9	8.6
NW	.4	1.4	2.7	2.2	.3	.3					7.0	9.3
NNW	.5	.9	1.7	2.0	.2	.1	.0				5.4	9.9
VARIABLE												
CALM	////////////////////										8.3	////
TOTALS	7.0	26.8	36.2	20.2	1.3	.1	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	1.0	1.1	3.0	.4						6.7	10.3
NNE	.6	.5	.5	.6							2.5	7.3
NE	.1	.4	.5	1.1							2.2	9.2
ENE	.4	1.0	.9	1.0							3.2	8.3
E	.3	1.6	1.4	1.4	.1						4.8	8.5
ESE	.1	1.2	2.6	.6							4.5	7.9
SE	.5	1.4	1.5	1.2							4.6	7.8
SSE	.3	2.3	1.2	.9							4.5	6.9
S	1.0	3.4	2.0	.8	.1						7.3	6.6
SSW	.6	1.6	1.4	.4							4.1	6.6
SW	.4	2.3	1.3	1.0							4.9	6.8
WSW	1.3	3.1	1.7	.8							6.9	6.4
W	1.4	4.8	5.6	1.0							12.8	6.9
WNW	1.7	2.2	4.6	1.9	.2						10.9	7.9
NW	.3	1.7	2.0	1.7	.3						6.1	9.2
NNW	.3	1.0	1.1	1.0	.1						3.4	8.8
VARIABLE												
CALM	////////////////////										10.5	////
TOTALS	10.2	30.0	29.7	18.3	1.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPHA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS: 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.6	1.2	.4	2.0	.2	.2		6.0	9.3
NNE	.3	1.1	.6	.6	.2	.1		3.2	8.5
NE	.2	.6	1.2	.8				2.8	8.3
ENE	.3	1.1	1.0	.6				3.0	7.7
E	.3	.2	1.2	1.1	.3			3.3	10.3
ESE		1.1	1.5	.4	.1			3.4	8.9
SE	.3	1.8	.6	1.1				4.1	7.5
SSE	1.1	2.4	1.1	.6				5.2	6.1
S	1.5	3.7	2.5	.9	.1			8.6	6.6
SSW	.3	1.9	1.3					3.5	5.9
SW	1.1	1.8	2.3	.7				5.4	6.2
WSW	1.3	2.0	2.7	.4				6.5	6.3
W	1.3	5.2	4.5	.5	.1			11.6	6.5
WNW	.6	3.4	3.1	2.9	.2	.1		10.5	8.3
NW	.3	1.2	1.5	2.7	.2			5.9	10.2
NNW	.8	.8	.9	1.7				4.1	8.9
VARIABLE									
CALM	////////////////////							11.9	////
TOTALS	10.5	30.4	27.1	18.1	1.5	.4		100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA M1

PERIOD OF RECORD: 72-87
MONTH: MAR HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	2.4	1.2	2.0	.1	.1					6.1	8.9
NNE	.4	1.7	1.0	1.1	.2	.2					4.2	9.0
NE	.4	1.3	1.2	.5							3.4	7.0
ENE		.8	.9	.8							2.4	8.5
E	.7	.6	.6	1.8	.3						3.9	10.4
ESE	.2	1.1	1.3	.8	.2						3.5	8.6
SE	.4	2.3	1.4	1.1							5.2	7.4
SSE	1.0	2.3	.5	1.0							4.7	6.3
S	1.4	3.4	2.3	.8							7.8	6.2
SSW	.6	2.4	1.6	.3							4.9	6.1
SW	.6	2.0	2.2								4.8	6.1
WSW	.5	2.2	2.3	.5							5.5	6.7
W	.5	3.4	2.5	1.1							7.5	7.1
WNW	.4	1.9	3.0	2.9	.2						8.9	8.8
NW	.6	2.7	2.3	3.0	.8						9.4	9.6
NNW	.1	1.0	1.3	1.5	.4	.2					4.5	11.2
VARIABLE												
CALM	////////////////////										13.1	////
TOTALS	9.5	31.1	25.4	19.1	2.3	.5					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: MAR HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.4	1.6	3.8	2.9	1.3			9.9	10.3
NNE		.5	1.6	1.2	.1			3.4	9.8
NE	.3	.3	.8	1.5				2.9	10.0
ENE		.1	2.0	1.4	.2			3.8	10.5
E	.5	.6	3.0	2.6	.2	.3		7.3	10.1
ESE	.1	1.2	1.6	1.9	.1			4.9	9.6
SE	.3	.9	1.5	1.6				4.3	8.8
SSE	.3	2.2	1.6	1.3	.2			5.6	8.2
S	.5	2.2	3.8	2.4	.2			9.0	8.8
SSW	.1	1.2	2.9	.4				4.6	7.5
SW	.4	1.2	2.5	1.1	.2			5.4	8.4
WSW	.4	1.4	2.3	1.7	.1			5.9	8.5
W	.2	1.0	2.5	2.0	.1			5.8	9.5
WNW	.2	1.0	1.6	3.3	1.2	.2		7.5	11.7
NW	.2	1.0	1.7	5.1	1.0	.2		9.1	12.4
NNW	.1	.6	2.0	3.3	1.3	.2		7.6	12.3
VARIABLE									
CALM	////////////////////							2.8	////
TOTALS	4.3	16.9	35.2	33.7	6.2	1.0		100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: MAR HOURS(1ST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.0	3.3	4.1	.5	.1					9.4	10.6
NNE	.3	.8	1.5	1.5	.3						4.4	9.5
NE		.2	1.6	1.2	.1						3.3	10.3
ENE	.1	.6	1.2	1.4							3.3	9.7
E	.1	1.5	3.2	2.2	.3	.2					7.5	9.8
ESE		.9	4.0	4.5		.2					9.6	10.6
SE	.3	.2	2.2	1.6							4.4	9.4
SSE	.3	.3	1.2	1.0	.4						3.2	10.4
S		1.0	2.9	2.9							6.8	10.1
SSW	.1	1.0	1.9	1.5							4.5	9.1
SW		.8	2.2	1.9	.3						5.2	10.4
WSW		1.0	2.6	2.6	.2						6.3	10.2
W	.1	.4	1.7	3.4	.1						5.8	10.9
WNW		.4	1.6	4.9	.6	.2					7.8	12.8
NW	.1	.6	2.2	4.6	2.0	.2					9.9	13.0
NNW	.2	.5	1.9	4.8	.2	.1					8.0	11.6
VARIABLE												
CALM	////////////////////											.5
TOTALS	2.2	11.4	35.4	44.2	5.3	1.1					100.0	10.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MIC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM POORLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPHA MI

PERIOD OF RECORD: 7A-87
MONTH: MAR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	.4	3.7	4.6	.8	.1					10.4	10.6
NNL	.1	.5	1.2	1.1							2.9	9.4
NE	.1	.2	1.2	1.5	.1						3.1	10.5
NNE	.2	.6	1.6	1.4							3.9	9.1
E		1.9	4.6	2.4		.1					9.6	9.2
ESE		1.3	6.3	4.4	.1						12.2	9.7
SE	.1	.6	1.8	2.4							5.5	10.4
SSE	.1	.7	.3	1.2							1.9	10.5
S	.1	.6	1.8	2.5	.1						5.2	10.5
SSW		.7	.9	1.7	.1						2.5	10.9
SW	.1	.4	1.6	1.7							4.0	9.9
WSW		1.1	2.3	2.4	.2	.1					6.0	10.4
W	.2	.4	3.5	2.4	.3						7.4	10.6
WNW		.5	2.0	4.0	1.1	.1					8.6	12.7
NW		.7	1.9	6.7	1.0	.1					9.9	13.1
NNW	.1	.7	1.8	3.9	.8						6.9	12.4
VARIABLE												
CALM	////////////////////										.1	////
TOTALS	1.4	10.4	36.8	46.2	4.5	.5					100.0	10.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.5	3.5	1.9	.6						8.1	9.3
NNE	.3	1.4	.9	1.2							3.8	7.9
NE	.4	1.5	1.2	.4							3.7	6.9
NNE	.4	1.7	1.3	.6							3.7	7.1
E	.2	1.7	2.4	1.0							5.3	8.0
ESE	.4	3.3	5.3	2.4							11.4	8.2
SE	.3	3.1	3.7	2.3	.2						9.6	8.3
SSE	.4	1.4	1.6	1.0							4.4	7.8
S	.3	.6	2.7	1.5	.1						5.3	9.0
SSW		.5	1.1	.4	.1						2.2	9.2
SW	.1	.5	.4	.6							1.8	9.2
WSW		1.6	1.4	.9	.1						4.2	8.3
W	.4	2.0	3.7	1.6		.2					8.0	8.6
WNW	.1	1.3	3.8	3.9	.9						9.8	10.6
NW	.1	.8	4.0	4.3	.4						9.6	10.8
NNW	.1	1.1	2.0	1.7	.5						5.5	10.1
VARIABLE												
CALM	////////////////////										4.0	////
TOTALS	4.2	24.1	38.8	25.8	2.9	.2					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.7	1.9	1.7	.8						6.7	9.3
NNE	.5	.4	1.0	.9	.2						3.0	9.3
NEL	.7	.9	.6	.4							2.4	6.8
ENE	.2	.4	.9	.3							1.8	8.1
E		.9	2.2	1.1							4.1	8.9
ESE	.3	1.3	2.3	.5							4.4	7.6
SE	.6	2.3	2.5	1.6							7.0	7.9
SSE	1.0	2.9	1.7	.6							6.2	6.5
S	1.1	3.7	3.5	1.7							10.0	7.3
SSW	.9	.9	.5	.5							2.7	6.5
SW	.4	1.4	1.2	.6							3.7	7.2
WSW	.3	2.9	1.3	1.0							5.4	7.1
W	.5	3.5	2.0	.9	.2						7.2	7.0
WNW	.3	2.9	5.9	2.3	.3						11.6	8.5
NW	.5	1.9	2.8	2.7	.8						8.6	9.8
NNW	.3	1.4	1.2	1.2	.1	.1					4.3	9.0
VARIABLE												
CALM	////////////////////										11.0	////
TOTALS	8.0	29.0	31.5	18.1	2.4	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS (LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.6	2.4	2.9	.6	.1					8.0	10.0
NNE	.3	.9	1.1	1.0	.1	.0					3.4	8.9
NE	.3	.7	1.1	.9	.0						3.0	8.6
ENE	.2	.7	1.2	.9	.0						3.1	8.7
E	.2	1.2	2.3	1.8	.2	.1					5.7	9.4
ESE	.1	1.4	3.1	2.0	.1	.0					6.7	9.1
SE	.4	1.6	1.9	1.7	.0						5.6	8.4
SSE	.6	1.7	1.2	.9	.1						4.5	7.5
S	.7	2.3	2.7	1.7	.1						7.5	7.9
SSW	.3	1.2	1.4	.6	.0						3.6	7.5
SW	.4	1.3	1.7	.9	.1						4.4	7.9
WSW	.5	1.9	2.1	1.3	.1	.0					5.6	8.0
W	.6	2.6	3.3	1.7	.1	.0					8.3	8.1
WNW	.5	1.7	3.2	3.4	.6	.1					9.5	9.9
NW	.3	1.2	2.3	3.8	.8	.1					8.6	11.2
NNW	.3	.9	1.5	2.4	.4	.1					5.5	10.9
VARIABLE												
CALM	////////////////////										6.7	////
TOTALS	6.2	22.9	32.5	27.9	3.3	.5					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: APR HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	1.1	2.2	2.2	.2							6.3	9.3
NNE	.4	1.3	1.6	1.1								4.4	8.1
NE	.2	1.7	2.2	.3								4.4	7.2
ENE		1.1	1.0	.9	.1							3.1	8.8
E	.2	1.1	.9	1.2								3.4	8.6
ESE	.3	1.1	1.7	1.0								4.1	8.3
SE	.1	1.7	2.3	1.3		.1						5.6	8.3
SSE	.9	2.3	1.4	.2								4.9	6.1
S	1.1	2.1	2.9	.7								6.8	6.9
SSW	.2	.8	.8	.7								2.6	7.6
SW	.3	1.1	1.2	.7	.1							3.4	8.0
WSW	.3	1.7	1.2	.2								3.4	6.3
W	1.3	5.1	4.0	.8	.2	.2						11.7	7.0
WNW	.2	3.1	4.9	1.6		.1						9.9	8.1
NW	.6	2.1	2.8	1.6	.2							7.3	8.6
NNW	.2	.8	1.1	1.4								3.6	9.1
VARIABLE													
CALM	////////////////////											15.0	////
TOTALS	7.2	26.2	32.2	15.9	1.0	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	1.6	1.8	2.4	.2							6.6	9.0
NNE	.7	.4	2.1	.8	.1							4.1	8.4
NE	.3	.7	1.7	.8								3.7	7.8
ENE	.1	.6	1.2	.8								2.7	8.6
E	.1	.5	1.6	1.2	.1							3.8	9.5
ESE	.1	1.3	2.6	1.3								5.3	8.5
SE	.4	1.8	2.0	.6	.1							4.9	7.4
SSE	.3	2.1	1.0	.2								3.7	6.1
S	.9	3.2	2.1	.6								6.8	6.2
SSW	.1	1.6	1.4	.6								3.7	7.6
SW	.3	.2	1.4	.3								2.3	8.1
WSW	.9	1.4	1.2	.2								3.8	6.0
W	1.2	5.8	3.9	1.0								11.9	6.4
WNW	.7	3.3	4.3	1.3	.3	.4						10.4	8.5
W	.4	2.1	1.4	1.9	.1							6.0	8.7
NNW	.3	.7	1.0	1.2	.1							3.3	9.0
VARIABLE													
CALM	////////////////////											17.1	////
TOTALS	7.6	27.8	30.8	15.2	1.1	.4						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(IST): 0600-0600

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	1.1	2.1	2.4	.6						6.4	10.3
NNE	.4	.8	1.4	1.2							3.9	9.0
NE	.4	1.1	1.6	1.0							4.1	7.8
ENE	.1	.8	1.4	.4							2.8	7.8
E	.1	.8	2.3	2.4							5.7	9.6
ESE	.1	1.4	2.7	1.8	.1						6.1	8.9
SE	.3	2.4	2.0	1.3	.1						6.2	7.6
SSE	.6	1.6	1.1	.6	.1	.1					4.0	7.5
S	.8	2.0	2.0	.4							5.2	6.8
SSW		1.2	1.8	.6							3.6	7.9
SW	.4	1.4	1.8	.6							4.2	7.1
WSW	.7	1.7	1.6	1.1							5.0	7.4
W	.4	4.0	3.6	1.2		.2					9.6	7.7
WNW	.7	1.9	3.4	1.3	.1	.2					7.7	8.3
NW	.1	2.3	2.9	3.1	.7						9.1	9.8
NNW	.1	1.4	.9	2.0	.3						4.8	10.2
VARIABLE												
CALM	////////////////////////////////////										11.7	////
TOTALS	5.6	26.0	32.6	21.7	2.0	.6					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726397 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	2.2	3.2	5.7	.9							12.2	10.7
NNE	.1	.0	1.1	1.7	.2							3.9	10.3
NE	.3	1.0	1.6	1.3	.1							4.3	8.4
ENE	.2	.9	1.2	1.1	.1							3.6	8.9
E	.2	.7	3.7	2.7	.3							7.6	10.2
ESE	.2	1.9	4.3	3.6	.4							10.6	9.7
SE	.3	.6	2.2	2.9	.2							6.2	10.8
SSE	.3	.2	1.3	.6	.3							2.8	9.5
S	.1	.7	2.6	1.7	.1	.1						5.2	9.8
SSW	.1	1.1	1.3	1.2	.1	.1						4.0	9.2
SW	.1	1.0	2.2	1.4	.3							5.1	9.6
WSW	.1	.6	1.4	2.2	.4							5.1	10.6
W		1.1	3.0	2.2	.1							6.4	9.6
WNW		.3	2.6	2.3	.8	.0						6.2	12.2
NW		1.1	2.6	3.7	.8	.3						8.4	11.3
NNW	.1	.4	1.2	5.1	.6							7.4	12.6
VARIABLE													
CALM	////////////////////////////////////											.9	////
TOTALS	2.7	14.9	35.6	39.3	5.9	.9						100.0	10.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	.7	3.7	7.7	.6						12.7	12.0
NNE		.8	2.0	1.7							4.4	9.6
NE		.8	1.3	1.6							3.7	9.7
ENE		.6	2.1	1.2							3.9	9.7
E	.2	.8	4.3	3.7	.7						9.7	10.4
ESE	.1	.4	4.3	6.8	.2						11.9	11.2
SE	.1	.4	2.8	5.0	.2						8.6	11.3
SSE	.1	.2	.6	.7							1.6	9.4
S		.2	.8	2.2	.3						3.6	12.0
SSW		.1	.6	1.4	.4	.1					2.7	13.8
SW		.8	.8	1.6	.2	.3					3.7	11.6
WSW		.7	1.6	2.3	.4						5.2	11.1
W		.4	2.6	2.9	.2	.1					6.2	11.1
WNW		.1	2.2	2.9	1.8	.2					7.2	13.4
NW	.1	.2	1.8	3.3	.9	.3					6.6	12.9
NNW		.1	2.1	5.0	1.0	.2					6.4	13.2
VARIABLE												
CALM	////////////////////										.1	////
TOTALS	.9	7.0	33.7	50.1	6.9	1.2					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
JFAPETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	4.7	7.9	1.3							14.1	12.0
NNE	.1	.7	2.4	1.6	.1							4.6	10.0
NE	.2	1.0	2.0	1.7								4.9	8.8
ENE		.1	2.2	.4								3.1	9.7
E		.7	4.3	5.9	.1							11.0	10.8
ESE		.4	5.9	6.6	.4							14.0	11.0
SE	.1	.8	2.6	4.4	.2							8.1	10.9
SSE	.1	.1	1.0	.7								1.9	9.8
S		.2	.4	2.3	.1							3.1	11.9
SSW		.1	.2	.6	.2							1.1	12.4
SW			.7	1.6	.4	.2						2.9	13.7
WSW	.1	.3	.9	1.8	.2	.1						3.4	12.0
W		.2	1.8	2.4		.1						4.6	11.5
WNW	.1	.3	1.9	3.8	1.4	.4						8.0	13.2
NW			1.3	4.7	1.2	.2						7.4	14.0
NNW	.1	.3	1.4	4.9	.7	.1						7.6	12.8
VARIABLE													
CALM	////////////////////											.2	////
TOTALS	.7	5.7	33.8	51.7	6.6	1.2						100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639D STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	2.3	4.7	4.2	.3	.1					11.8	9.7
NNE	.1	1.4	2.7	.9							5.1	8.0
NE	.1	1.0	2.2	.4	.1						4.8	7.4
ENE	.4	2.3	2.1	.6	.1						5.8	7.1
E	.1	2.0	2.7	2.2							7.0	8.9
ESE	.3	3.2	6.5	2.6	.2	.1					13.0	8.6
SE	.6	2.4	2.6	1.4							7.0	7.7
SSE	.2	1.3	.8	.9							3.2	7.9
S	.3	.4	1.2	1.0							3.0	9.1
SSW		.7	1.0	.6							2.0	9.5
SW		.7	.6	1.2		.1					2.2	10.8
WSW	.1	.3	.6	1.0	.1	.1					2.2	11.1
W	.1	.3	2.0	1.6	.2	.2					4.5	11.1
WNW		1.4	3.7	3.6	.9	.1					9.7	11.1
NW		.6	1.6	4.3	.4						7.2	11.6
NNW	.1	.1	2.6	4.9	.3	.2					8.2	11.7
VARIABLE												
CALM	////////////////////										3.1	////
TOTALS	2.7	21.3	37.3	31.8	2.8	1.0					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	1.4	3.3	2.3	.1						7.9	8.7
NNE	.6	1.6	1.9	.6							4.6	7.4
NE	.3	1.1	1.1	.6							3.1	7.5
ENE	.2	.6	.9	.6							2.5	8.1
E	.6	1.7	1.6	1.7	.1						5.8	8.3
ESE	.2	1.7	1.8	1.1							5.4	7.4
SE	1.3	2.0	2.6	.7	.1						6.7	6.8
SSE	1.0	3.1	1.1	.9							6.1	6.3
S	.3	2.1	1.7	.7							4.8	7.0
SSW	.6	.7	1.2	.2							2.3	6.6
SW	.4	1.1	.6	.4	.1						2.7	7.4
WSW	.2	.9	1.0	.3	.1						2.6	7.8
W	.4	2.0	3.6	1.1	.2						7.4	8.2
WNW	.6	2.5	2.9	2.9	.6						9.4	9.2
NW	.3	2.7	3.0	3.5	.4						9.5	9.6
NNW	.3	1.9	1.4	2.5	.1						6.2	9.3
VARIABLE												
CALM	////////////////////										13.3	////
TOTALS	8.8	26.4	29.7	20.0	1.9						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 7P-87
MONTH: APR HOURS(1ST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.3	1.3	3.2	4.4	.5	.0		9.7	10.5
NNE	.3	.6	1.9	1.2	.1			4.4	8.8
NE	.3	1.2	1.7	1.0	.0			4.1	8.1
NNE	.1	.9	1.5	.8	.0			3.4	8.5
E	.2	1.1	2.7	2.6	.2			6.7	9.8
ESE	.3	1.5	3.7	3.1	.2	.0		6.8	9.6
SE	.4	1.5	2.4	2.2	.1	.0		6.7	9.0
SSE	.4	1.4	1.0	.6	.1	.0		3.5	7.3
S	.4	1.4	1.7	1.2	.1	.0		4.8	8.2
SSW	.1	.7	1.0	.8	.1	.0		2.7	9.0
SW	.2	.8	1.2	1.0	.2	.1		3.3	9.5
WSW	.3	1.0	1.2	1.2	.2	.0		3.8	9.1
W	.4	2.4	3.0	1.7	.1	.1		7.8	8.5
WNW	.3	1.6	3.2	2.5	.7	.2		8.6	10.3
NW	.2	1.4	2.2	3.3	.6	.1		7.7	10.8
NNW	.2	.7	1.5	3.4	.4	.1		6.2	11.4
VARIABLE									
CALM	////////////////////							7.7	////
TOTALS	4.5	19.7	33.2	30.7	3.5	.7		100.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 7195

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.2	2.6	1.2							5.7	8.0
NNE	.3	1.1	.9	.5							3.2	6.7
NE	.3	1.3	.9	.2							2.7	6.4
ENE	.4	.7	.4	.1							1.3	6.0
E	.3	.6	1.3	.3							2.6	7.3
ESE	.5	2.0	1.8	.3							5.3	6.4
SE	.9	2.5	.9	.1							4.3	5.3
SSE	1.1	2.3	.6	.2							4.2	5.3
S	3.2	2.4	2.9	.1							8.6	5.4
SSW	.3	1.7	.9	.3							3.2	6.5
SW	.2	1.4	.6	.3							3.5	5.8
WSW	1.1	2.6	1.0	.3							4.9	5.7
W	1.0	5.9	2.3	.6							9.8	6.1
WNW	.8	4.4	3.2	.3							8.7	6.4
NW	.9	2.6	2.4	.4	.2						6.5	6.9
NNW	.3	.5	1.7	.5							3.1	8.0
VARIABLE												
CALM	////////////////////										22.4	////
TOTALS	13.3	33.8	24.3	6.0	.2						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.7	1.4	1.9	.2						5.2	9.5
NNE	.4	1.4	.6	1.4							3.7	8.1
NE	.2	1.1	1.5	.3							3.1	7.1
NNE	.4	1.0	.8	.1							2.3	6.1
E	.2	.4	1.4	.7	.1						2.5	8.3
ESE	1.0	2.1	1.2	.7							4.4	5.8
SE	.5	2.9	1.1	.2							4.9	5.9
SSE	.6	2.7	.5								3.4	4.8
S	1.8	2.7	2.3	1.0							7.7	6.4
SSW	1.1	1.0	.9	.1							3.5	5.4
SW	1.0	1.0	1.4	.2							4.4	5.8
WSW	.9	1.0	1.7	.2							4.6	6.0
W	1.6	7.6	2.7	1.0							12.9	5.9
WNW	1.1	5.6	2.2	.1							8.9	5.6
NW	.4	1.0	1.6	.6							4.5	7.0
NNW	.4	1.1	.9	.5							2.9	6.8
VARIABLE												
CALM	////////////////////										20.9	////
TOTALS	12.0	36.3	22.0	8.4	.3						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726394 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	1.1	2.7	2.8	.1						6.8	9.1
NNE	.1	.5	1.2	1.3							3.4	8.9
NE	.4	1.8	1.5	.4							4.2	6.6
ENE	.4	.6	1.2	.4							2.7	7.3
E	.2	.6	1.7	.5							3.1	7.9
ESE	.3	1.2	2.7	.9							6.0	7.3
SE	.5	2.7	1.5	.5							5.3	6.4
SSE	1.5	2.9	1.2	.1							5.7	5.0
S	.4	1.8	3.1	1.2							6.6	7.9
SSW	1.3	1.4	1.9	.4							4.7	6.7
SW	.6	1.6	1.2	.1							3.5	6.2
WSW	.6	2.2	2.2	.6							5.6	7.2
W	1.5	7.3	3.3	1.4							13.5	6.3
WNW	.5	3.4	3.3	.9							8.2	7.0
NW	1.2	2.8	2.8	.8	.1						7.6	7.0
NNW	.2	1.3	1.2	.4							3.1	7.3
VARIABLE												
CALM	////////////////////										9.9	////
TOTALS	10.3	34.6	32.2	12.8	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	2.3	3.4	3.7	.5						10.2	9.4
NNE	.1	.6	1.6	1.5	.3						4.2	10.3
NE		1.0	2.3	.6							4.8	7.9
ENE		.8	1.0	1.0							2.7	8.9
E	.4	1.4	4.1	1.9							7.7	8.6
ESE	.3	2.0	4.5	2.3	.2						9.4	8.9
SE	.1	1.0	2.5	1.7							6.1	8.8
SSE	.3	1.9	1.8	.6							4.7	7.5
S	.3	2.2	1.7	3.7	.2						8.1	9.7
SSW	.7	.4	1.6	.9	.2						3.4	9.0
SW	.1	1.1	1.5	2.0	.1						4.8	9.7
WSW	.2	1.2	2.6	1.2							5.2	8.3
W	.6	1.1	4.4	1.9	.3						8.4	9.1
WNW	.3	.8	3.3	2.3							6.7	9.3
NW	.4	.4	3.1	3.3	.1	.2					7.7	11.0
NNW	.1	.9	2.0	1.8	.1						4.9	9.8
VARIABLE												
CALM	////////////////////										.9	////
TOTALS	4.1	20.8	41.5	30.3	2.2	.3					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.3	1.7	2.4	5.6	.6			11.3	10.7
NNE		.6	1.8	1.1	.2			4.0	9.4
NE		1.4	2.3	.6				4.3	8.0
NNE		.6	2.3	1.4				4.2	9.3
E	.1	1.0	4.5	2.9				8.5	9.3
ESE	.1	1.1	7.4	7.5				16.1	10.3
SE	.1	1.0	4.9	4.0				10.6	10.1
SSE		.1	1.0	.8	.1			2.4	8.8
S	.1	.7	1.6	3.0	.1	.1		5.2	12.0
SSW			.6	1.8		.1		2.6	12.4
SW	.1	.7	1.1	1.8	.4			3.8	11.3
WSW	.1	.7	1.7	1.0	.4			3.5	10.4
W	.2	1.1	1.9	2.3	.7			5.8	9.8
WNW	.1	.4	1.8	4.0	.3	.1		6.8	11.8
NW		.2	1.5	3.8	.1	.2		5.8	12.1
NNW	.1	.5	1.1	3.3		.1		5.2	11.6
VARIABLE									
CALM	////////////////////								////
TOTALS	1.4	10.8	39.0	45.5	2.7	.6		100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.2	5.2	6.7	1.0	.2						14.2	11.5
NNE		.9	2.8	1.1								4.7	9.0
NE		1.0	2.3	.4	.1							3.8	8.4
NNE	.1	.7	1.9	.6	.1							3.0	9.3
E	.1	2.0	6.3	4.2								12.7	9.3
ESE	.2	1.3	8.7	9.0	.1							19.9	10.3
SE	.1	.4	3.4	4.1	.1							8.2	10.4
ESE		.1	1.4	1.1	.1							2.7	10.0
S	.1	.4	.9	1.8	.5							3.8	11.6
SSW	.1	.7	.1	1.2	.4							2.2	12.6
SW		.7	.4	.9	.3							1.8	12.5
WSW	.2	.2	.4	1.8								2.7	10.8
W	.1	.5	1.4	2.6	.2							4.8	11.3
WNW		.0	1.5	3.5	.2	.1						5.6	12.2
NW		.3	.8	2.7	.4							4.2	12.4
NNW			1.7	2.7	.6	.1						5.2	12.5
VARIABLE													
CALM	////////////////////											.6	////
TOTALS	1.1	9.4	39.2	44.9	4.3	.4						100.0	10.6

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPHEA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.1	2.2	5.8	4.2	.4			12.7	9.8
NNE	.3	1.7	2.5	1.0	.1			5.6	7.9
NE	.6	1.9	1.2	.3				4.1	6.1
NNE	.6	1.1	.5	.3				2.6	6.2
E	.3	3.2	3.5	.9	.1			8.1	7.2
ESE	.6	5.7	8.0	1.6				15.9	7.4
SE	1.2	5.7	5.7	.9				13.4	6.9
SSE	.1	2.3	1.9	1.0				5.3	7.6
S	.1	1.1	1.2	1.6	.1			4.1	9.4
SSW	.1	.3	.6	.6				1.7	9.6
SW	.3	.1	1.1	.5	.1			2.2	8.9
WSW	.2	.6	.6	.5		.1		2.2	9.0
W	.1	1.1	1.5	1.2				3.9	8.6
WNW	.3	1.2	1.4	2.6	.2			5.7	10.0
NW	.1	1.1	.9	3.1	.8			5.9	11.3
NNW		.5	1.2	3.0	.3			5.1	11.1
VARIABLE									
CALM	////////////////////								1.7
TOTALS	5.3	29.8	37.6	23.3	2.2	.1		100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.8	1.7	2.5	1.2	.1						6.2	7.9
NNE	1.2	1.5	.8	.1	.1						3.7	5.7
NE	1.0	2.2	.8								3.9	5.2
NNE	.6	1.7	.2	.3							2.6	5.4
E	.9	1.5	1.1	.2							3.7	6.0
ESE	.5	2.5	1.8	.3							5.2	6.6
SE	1.3	3.9	2.5	.2							7.8	5.7
SSE	1.0	3.7	1.2	.8							6.9	5.7
S	2.5	3.9	1.5	1.0							8.8	5.8
SSW	.5	.7	.6	.2							1.9	6.2
SW	.9	.8	1.1	.2							2.9	6.4
WSW	1.0	2.3	1.0	.1							4.3	5.4
W	.4	2.7	1.8	.3	.1						5.3	6.4
WNW	.4	2.5	2.8	.8							6.5	7.2
NW	.3	1.4	3.4	1.6	.2						7.1	9.2
NNW	.6	.9	3.0	1.0							5.5	8.2
VARIABLE												
CALM	////////////////////										17.3	////
TOTALS	14.9	32.7	26.0	6.5	.5						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726790 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GC 56	
N	.4	1.1	2.3	3.4	.4	.0					9.0	9.8
NNE	.4	1.1	1.5	1.0	.1						4.1	8.3
NE	.3	1.4	1.6	.4	.0						3.9	7.0
NNE	.3	.7	1.0	.5	.0						2.7	7.6
E	.3	1.4	3.0	1.4	.0						6.1	8.4
ESE	.5	2.4	4.5	2.8	.0						10.3	8.6
SE	.6	2.6	2.8	1.6	.0						7.6	7.7
SSE	.7	1.9	1.2	.6	.0						4.4	6.5
S	1.1	1.8	1.0	1.7	.1	.0					6.6	8.0
SSW	.4	.8	.9	.7	.1	.0					2.9	8.2
SW	.5	1.0	1.0	.8	.1						3.4	8.1
WSW	.5	1.4	1.4	.7	.1	.0					4.1	7.5
W	.8	3.4	2.4	1.4	.1						8.1	7.4
WNW	.9	2.2	2.4	1.8	.1	.0					7.1	8.4
NW	.4	1.2	2.1	2.1	.2	.1					6.2	9.5
NNW	.2	.7	1.6	1.7	.1	.0					4.4	9.8
VARIABLE												
CALM	////////////////////										9.2	////
TOTALS	7.8	26.0	32.7	22.5	1.6	.2					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.6	2.1	.1							4.1	6.8
NNE	.1	.4									.6	3.8
NE	.1	.4	.2								.8	4.9
NNE	.2	.7	.2								.8	5.1
E	.2	.7	.3								.8	6.1
ESE	.3	.6	.9								1.8	6.5
SE	1.7	1.0	.6								4.1	4.4
SSE	2.1	4.0	.8	.1							7.0	4.6
S	3.0	7.0	3.6	.6	.1						14.2	5.6
SSW	.9	2.0	1.8	.7							5.3	6.6
SW	1.0	1.0	.9	.1							3.9	5.1
WSW	.9	3.0	1.2	.2		.1					5.4	5.9
W	.9	7.7	3.0	.2	.1						11.9	5.8
WNW	1.1	5.8	2.9	.6	.1						10.2	6.3
NW	.6	3.3	2.6	.9							7.3	6.9
NNW	.3	.8	1.1	.9							3.1	7.9
VARIABLE												
CALM	////////////////////										18.7	////
TOTALS	13.8	40.7	22.1	4.3	.3	.1					100.0	4.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726340 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.3	1.3									2.7	6.6
NNE	.6	.6	.6									1.7	5.4
NE	.7	.3	.2									1.2	4.4
ENE	.3	.3	.1	.1								.9	5.9
E	.2	.4	.2									.9	5.3
ESE	.2	.9	.6	.1								2.0	6.8
SE	.6	1.3	.9	.1								2.9	5.7
SSE	.9	2.6	.3	.2								4.1	5.0
S	2.9	6.4	2.3	1.2								12.9	5.8
SSW	.8	2.6	2.2	.4								6.0	6.4
SW	.7	3.0	1.9	.2								5.8	6.0
WSW	1.2	3.3	1.7	.2								6.4	5.8
W	1.8	7.7	2.9	.4								12.8	5.5
WNW	1.4	5.0	2.9	.3	.1							9.8	6.1
NW	.9	2.7	2.0	1.2								6.3	7.1
NNW	.3	.7	1.1	1.2	.1							3.4	6.6
VARIABLE													
CALM	////////////////////											28.2	////
TOTALS	13.3	38.9	21.2	6.1	.2							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN FOUR (LAST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.9	1.8	.9	.7							4.3	7.1
NNE	.3	.7	1.0	.4							2.4	7.5
NE	.3	.4	.4	.4							1.7	7.6
ENE	.1	.4	.4	.3							1.6	6.8
E	.4	.7	.9								2.0	5.9
ESE	.2	1.3	1.1	.7							3.3	7.6
SE	.3	2.2	1.4	.1							4.1	5.9
SSE	.9	2.8	1.0	.4							5.1	5.7
S	1.2	4.8	4.3	1.9							12.8	6.8
SSW	.6	1.2	1.8	1.1							5.7	7.0
SW	.4	3.0	2.7	.6	.1						6.8	7.2
WSW	.7	2.1	2.7	.1		.1					5.7	6.7
W	.7	6.4	5.0	1.6							13.7	6.9
WNW	.6	2.9	5.6	1.7							10.7	7.9
NW	.3	2.4	2.7	2.1							7.6	8.2
NNW	.4	1.0	1.9	1.3	.1						4.8	8.8
VARIABLE												
CALM	////////////////////										7.9	////
TOTALS	9.1	35.2	33.8	13.7	.2	.1					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.1	1.1	3.3	2.2	.2							7.0	9.4
NNE	.2	.3	.9	.4	.1							2.0	9.1
NE		1.0	.9	.4	.1							2.4	8.1
ENE	.1	.3	1.1	.5								2.1	8.8
E	.2	.5	1.7	.9								3.7	8.2
ESE		.4	4.0	.7								5.3	8.8
SE	.1	1.8	3.1	1.1								6.1	7.9
SSE	.2	1.3	3.3	.2								5.1	7.4
S	.2	1.4	4.9	3.8	.1							10.4	9.5
SSW	.2	.5	3.9	2.0								6.9	9.0
SW	.1	.2	3.2	2.7	.2							6.4	10.3
WSW	.2	1.6	2.8	1.8								6.3	8.4
W	.3	2.0	6.6	2.9	.1	.1						12.0	9.0
WNW	.3	1.4	3.3	4.2	.1							9.4	9.9
NW		.1	3.7	3.4								7.2	10.6
NNW		.4	2.4	3.4	.2							6.6	10.9
VARIABLE													
CALM	////////////////////											.9	////
TOTALS	2.4	15.2	49.1	31.0	1.2	.1						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	4.0	3.6	.3						8.6	10.3
NNE		.2	1.1	1.3							2.7	10.0
NE	.1	.6	1.7	.2							2.7	8.3
ENE		.7	1.0	.6							2.2	9.6
E	.1	.6	4.2	1.7	.1						6.7	9.2
ESE		.7	5.7	4.4							10.8	10.0
SE		.6	3.4	3.1							7.1	10.0
SSE	.2	.6	2.9	.9							4.6	8.6
S		.2	2.7	3.8	.1						6.8	11.3
SSW		.4	2.3	2.7	.1						5.6	10.9
SW		.4	2.3	2.7	.2						5.7	10.9
WSW		.7	2.3	3.1	.1						5.9	10.9
W	.1	1.0	3.6	5.1	.4	.1					10.3	11.0
WNW		.7	2.6	4.9	.2						8.3	11.6
NW		.1	2.8	3.7	1.1						7.7	12.1
NNW		.7	1.9	1.6	.6						4.4	11.4
VARIABLE												
CALM	////////////////////											.1
TOTALS	.6	7.6	44.4	43.9	3.3	.1					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS (LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	.7	3.9	6.3	.2						11.2	11.1
NNE		.8	1.8	.8	.1						3.4	9.2
NE	.1	.8	1.4	.8							3.1	8.7
ENE		.4	1.0	.3							1.8	8.1
E	.1	.6	5.2	1.7							7.6	9.1
ESE		1.7	6.8	5.0	.2						13.7	9.8
SE	.1	.4	5.6	3.2							9.4	9.5
SSE		.5	1.3	.6							2.7	8.5
S		1.1	2.8	3.1	.4						7.4	10.5
SSW		.1	.6	2.3	.1						3.1	11.7
SW	.1	.3	1.0	2.7							4.1	11.2
WSW		.4	1.8	2.7	.1						5.0	10.7
W		.6	2.8	3.7	.3						7.3	11.0
WNW	.1	.4	2.2	4.8	.2	.1					7.9	11.7
NW		.4	1.4	4.0	.7						6.6	12.2
NNW	.1	.3	.8	3.4	.7						5.3	12.9
VARIABLE												
CALM	////////////////////////////////////										.3	////
TOTALS	.8	10.0	40.3	45.3	3.1	.1					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.4	1.7	4.6	3.8								10.2	9.6
NNE	.3	1.0	1.6	.6								3.7	7.7
NE	.3	.6	.6	.1								1.8	6.3
NNE	.3	.0	1.2									2.4	6.1
E	.2	3.1	2.4	.3								6.1	6.4
ESE	.3	5.0	7.2	.7								13.2	6.9
SE	1.0	4.7	5.3	.7								11.7	6.8
SSE	.3	1.6	2.7	.9	.1							5.9	7.8
S	.4	1.3	2.2	1.1								5.1	8.2
SSW		.7	1.3	.7								2.6	8.4
SW	.1	.6	1.3	.7								2.7	8.7
WSW	.1	.6	2.4	1.0								4.1	9.0
W	.1	2.0	3.4	2.6	.1							3.2	9.2
WNW	.3	1.7	2.2	2.6								6.7	9.4
NW		1.6	2.6	3.1	.3							7.6	10.2
NNW	.1	.0	2.7	3.4	.3							7.0	10.9
VARIABLE													
CALM	////////////////////											1.2	////
TOTALS	4.6	26.0	44.0	22.4	.9							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	1.1	1.3	1.1							3.7	8.4
NNE	.9	1.2	.4								2.6	4.4
NE	.6	1.7		.2							2.9	5.3
ENE	.4	.2		.1							.8	4.4
E	.6	.9	.1	.2							1.9	6.0
ESE	1.0	1.1	.7								2.8	4.6
SE	1.7	4.6	1.6	.1							7.9	5.1
SSE	2.1	6.3	1.3	.1							9.9	4.7
S	2.7	6.1	2.1	.4							11.3	5.3
SSW	.1	1.9	2.1	.2							4.4	7.0
SW	.9	.7	.7	.1							2.3	5.9
WSW	.2	1.9	.7	.2							3.1	5.8
W	.7	4.2	1.1	.6							6.8	5.7
WNW	.6	4.2	2.8	.4							8.0	6.4
NW	.5	3.6	4.7	1.4							10.0	7.7
NNW		1.0	2.8	.6	.2						4.6	8.6
VARIABLE												
CALM	////////////////////										18.0	////
TOTALS	13.1	40.2	22.3	6.1	.2						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAF/LTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	1.2	2.7	2.3	.1						6.5	9.3
NNE	.3	.7	.9	.4	.0						2.4	7.7
NE	.3	.7	.7	.3	.0						2.0	7.2
ENE	.2	.4	.6	.3							1.6	7.4
E	.3	.9	1.4	.6	.0						3.7	7.9
ESE	.3	1.5	3.4	1.5	.0						6.6	8.4
SE	.7	2.2	2.7	1.1							6.7	7.3
SSE	.8	2.5	1.7	.4	.0						5.5	6.2
S	1.4	3.1	3.1	2.0	.1						10.1	7.4
SSW	.3	1.3	2.0	1.3	.0						4.9	8.2
SW	.4	1.3	1.7	1.2	.1						4.7	8.3
WSW	.4	1.7	1.9	1.2	.0	.0					5.2	7.9
W	.6	3.0	3.5	2.1	.1	.0					10.4	7.8
WNW	.6	2.7	3.1	2.5	.1	.0					8.9	8.5
NW	.3	1.7	2.8	2.5	.3						7.5	9.3
NNW	.2	.6	1.8	2.0	.3						4.9	10.3
VARIABLE												
CALM	////////////////////										8.4	////
TOTALS	7.2	26.8	34.7	21.6	1.2	.1					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	.5	.4	.1							1.6	5.5
NNE	.3	1.7	.2								1.9	5.1
NE	.2	.1	.3								.6	5.5
ENE	.1	.3	.2								.6	5.2
E	.5	.4	.1								1.1	4.2
ESE	.3	.4	.1	.4							1.3	7.2
SE	1.1	2.7	.8	.1							4.6	5.1
SSE	1.5	2.9	.8								4.9	4.6
S	3.3	4.2	2.3	.3							10.2	5.1
SSW	.6	3.0	1.6	.4							5.7	6.2
SW	.5	2.3	1.9								4.7	6.0
WSW	1.7	4.4	2.0	.1							8.3	5.4
W	1.7	7.7	2.2	.3							11.9	5.4
WNW	.4	5.8	2.2	.5							9.9	6.0
NW	.2	3.0	2.9	.2							6.3	6.6
NNW	.4	.9	1.1	.3							2.7	6.8
VARIABLE												
CALM	////////////////////										24.6	////
TOTALS	13.7	40.0	18.8	2.9							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.5	1.4	1.0	.2								3.2	6.2
NNE	.6	1.1	.2									1.9	4.5
NE	.5	.9	.2									1.6	4.5
ENE	.3	.7	.1									.8	4.3
E	.2	.4	.1									.8	5.3
ESE	.2	.6	.2	.1								1.2	5.5
SE	.8	1.0	.8	.1								3.5	5.5
SSE	.9	1.7	.8	.1								3.5	5.5
S	3.1	5.6	1.5	.2								10.4	4.9
SSW	.6	3.1	1.4	.4								5.6	6.0
SW	1.5	3.3	1.3	.6		.1						6.9	6.0
WSW	1.2	3.4	1.5	.1								6.2	5.3
W	2.5	8.7	2.0	.2	.1							13.2	5.2
WNW	1.4	5.7	2.2	.6								9.9	5.9
NW	.5	1.6	1.7	.5								4.4	6.9
NNW	.3	.4	.5	.1	.1							1.5	7.1
VARIABLE													
CALM	////////////////////											25.8	////
TOTALS	15.3	29.6	15.5	3.5	.2	.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	1.0	1.2	1.2	.2								3.5	5.8
NNE	.9	.6	.4									1.9	4.7
NE	.2	.8	.8									1.7	5.6
ENE	.1	.6	.5									1.3	5.8
E	.2	.4	.5	.1								1.3	6.5
ESE	.5	.6	.8									2.0	5.4
SE	1.0	1.7	.5	.2			.1					3.5	6.2
SSE	1.0	2.6	1.7	.2								5.5	5.9
S	1.4	4.1	2.9	.4		.1						8.9	6.3
SSW	.5	2.5	2.9									5.9	6.4
SW	1.1	4.3	3.2	.4								9.0	6.1
WSW	1.3	5.6	3.0	.2								10.9	5.5
W	1.1	5.5	3.6	.4								11.8	6.1
WNW	1.2	5.1	4.0	1.3								11.5	6.8
NW	.9	1.9	3.1	.6								6.7	7.2
NNW	.4	1.2	1.7	.4								3.8	6.9
VARIABLE													
CALC	////////////////////											10.6	////
TOTALS	13.2	40.0	31.2	4.7		.1	.1					100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPLA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	1.7	3.0	2.7							7.1	9.0
NNF	.4	1.7	.8								2.5	5.7
NE	.2	1.6	.9								2.9	5.7
FNE		1.2	1.2	.1							2.5	6.9
E	.1	1.0	1.2	.2							2.5	7.6
ESE	.4	1.6	1.6	.6							4.3	7.1
SE	.6	2.2	2.6	.7							5.7	6.8
SSE	.4	1.0	2.0	.3	.1						4.8	6.7
S	.2	1.7	4.6	2.2	.4						9.1	9.0
SSW	.3	1.0	3.0	.9							6.0	7.9
SW	.1	1.0	4.0	1.7	.2						7.8	9.0
WSW		3.3	5.1	1.4							9.8	7.6
W	.5	2.0	5.9	1.5							10.4	7.8
WNW	.1	3.3	4.2	2.8							10.4	8.3
NW	.2	1.5	4.3	1.4							7.5	8.4
NNW	.2	.5	2.5	3.0	.1						6.3	10.2
VARIABLE												
CALM	////////////////////////////////////										.2	////
TOTALS	4.2	29.2	46.8	18.7	.9						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.1	4.4	3.2								8.3	10.2
NNE		1.2	.8	.1								2.0	6.8
NF		1.0	1.6	.3								2.9	7.6
ENE	.1	.6	1.1	.1								2.0	7.3
E		1.1	3.0	1.4								6.3	8.9
ESE		1.1	7.5	2.0								10.6	9.1
SE		.6	4.3	2.5								7.3	9.7
SSE	.3	.9	1.5	.8								3.4	8.2
S	.3	1.2	3.3	2.2	.1							7.1	8.9
SSW		.5	1.5	1.7								4.0	9.8
SW		1.5	2.9	1.6	.2	.1						6.7	9.8
WSW	.1	1.5	4.0	1.5	.1							7.2	8.5
W	.1	1.0	6.1	2.5	.1							10.8	9.0
WNW	.1	1.5	3.5	2.8	.1	.1						8.2	9.9
NW	.1	1.0	2.4	3.4								6.9	10.3
NNW		1.1	1.5	3.0	.4							6.0	11.0
VARIABLE													
CALM	////////////////////											.2	////
TOTALS	1.2	17.5	50.3	29.5	1.1	.2						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(1ST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.1	.4	4.4	3.4	.3			8.7	10.5
NNE		.8	2.5	.3				3.5	8.4
NE		.6	1.2	.2				2.2	7.4
NNE	.1	.3	1.1	.2				1.7	8.4
E		1.0	6.7	2.0				9.7	8.9
ESE		1.1	7.7	5.6				14.6	9.9
SE	.1	.6	5.4	3.5				9.7	9.6
SSE	.2	.4	1.8	2.7				4.6	9.8
S	.1	.7	2.4	2.3				4.9	10.3
SSW		.4	1.6	1.7	.1			3.9	10.4
SW	.1	.8	2.2	1.3		.1		4.4	9.5
WSW	.1	.8	2.5	.9	.3			4.5	9.4
W		1.7	2.8	2.4	.2			7.1	9.6
WNW	.1	1.1	3.0	2.3	.3			6.8	9.8
NW		.8	2.4	3.5	.5			7.2	11.1
NNW		.3	1.7	4.2	.1			6.3	11.8
VARIABLE									
CALM	////////////////////							.1	////
TOTALS	1.0	11.4	49.2	36.2	1.9	.1		100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.1	4.6	2.4							8.4	9.0
NNE	.1	1.8	1.0	.3							3.2	6.6
NE	.3	1.8	.6								2.8	5.4
ENE	.5	.4	.3								1.3	5.1
E	1.0	2.7	2.8	.7							6.8	6.4
ESE	.5	5.1	7.2	.6							13.4	7.1
SE	.6	6.2	6.6	.6							14.1	6.8
SSE	.3	3.0	1.8								5.2	6.3
S	.7	1.7	2.8	1.8							7.1	8.3
SSW	.1	.7	1.3	.4							3.0	8.3
SW		.6	1.6	.2	.1						3.0	7.9
WSW		1.6	1.2	.7							3.1	6.8
W	.1	2.7	2.7	1.2	.3						6.5	8.6
WNW	.2	2.2	2.7	1.5	.1	.1					6.8	8.6
NW	.3	1.4	2.7	1.2	.1						5.8	8.6
NNW	.1	.9	3.7	3.1							7.7	9.9
VARIABLE												
CALM	////////////////////										1.8	////
TOTALS	5.4	34.0	43.9	14.3	.6	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.2	1.9	.2							4.0	6.5
NNL	.6	1.0	.5								2.2	5.3
NE	.3	.3									.6	4.0
ENE	.4	.5	.2								1.2	4.6
E	.5	.6	.3								1.4	5.0
ESE	1.0	2.0	.3	.2							3.5	5.1
SE	1.5	4.5	1.8	.3							8.2	5.4
SSE	2.0	3.7	.4	.1							6.2	4.4
S	3.5	6.9	3.0	.5							14.0	5.3
SSW	.4	1.7	1.4								3.5	6.0
SW	.7	2.4	1.3								4.5	5.2
WSW	1.5	2.7	.4	.1							4.3	4.5
W	1.4	4.1	.9	.4							7.0	5.6
WNW	.4	5.5	2.0	.4							8.4	5.9
NW	1.0	3.0	3.2	.5							7.8	6.6
NNW	.2	1.4	2.3	.4	.1						4.4	7.6
VARIABLE												
CALM	////////////////////										18.7	////
TOTALS	16.5	41.0	20.1	3.7	.1						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(1ST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.0	2.6	1.5	.0						5.6	8.7
NNE	.4	1.1	.8	.1							2.4	6.1
NE	.2	.5	.7	.1							1.9	6.0
NNE	.2	.6	.6	.1							1.4	6.4
E	.3	1.0	1.9	.5							3.7	7.7
ESE	.4	1.6	3.2	1.2							6.4	8.1
SE	.7	2.1	2.9	1.0			.0				7.1	7.2
SSE	.8	2.1	1.3	.5	.0						4.7	6.3
S	1.6	3.2	2.8	1.2	.1	.0					9.0	6.8
SSW	.3	1.8	1.8	.7	.0						4.7	7.4
SW	.5	2.2	2.3	.8	.1	.0					5.9	7.4
WSW	.8	2.9	2.5	.6	.1						6.8	6.6
W	.9	4.7	3.3	1.2	.1						9.8	7.0
WNW	.5	3.8	3.0	1.5	.1	.0					8.9	7.5
NW	.4	1.8	2.8	1.5	.1						6.6	8.3
NNW	.2	.8	1.9	1.8	.1						4.9	9.6
VARIABLE												
CALM	////////////////////										10.3	////
TOTALS	8.8	31.6	34.5	14.2	.6	.1	.0				100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAF/FLTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.0	.6	.2							1.9	7.4
NNE		.7	.4								.8	7.6
NE	.1	.7	.6								1.0	6.1
ENE	.3	.8	.5	.2							1.8	6.4
E	.2	.7	.1	.2							.9	7.1
ESE	.3	1.0	.1	.1							1.5	5.1
SE	.5	1.0	.5	.3							2.9	6.0
SSE	1.4	3.0	1.5	.4							6.3	5.7
S	3.7	6.6	2.8	.4							13.5	5.3
SSW	1.9	3.2	1.1								6.2	4.8
SW	2.2	4.7	.5								7.0	4.5
WSW	1.5	4.5	.9								6.9	4.7
W	2.4	7.0	1.1	.1							11.2	4.9
WNW	1.3	3.8	2.4	.4							7.8	5.9
NW	.4	1.7	1.0								3.1	5.6
NNW	.2	.6	.9								1.7	6.6
VARIABLE												
CALM	////////////////////										25.5	////
TOTALS	16.5	40.7	15.2	2.6							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(1ST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.9	.8	.8	.2								2.6	6.2
NNE		.8	.6									1.4	6.2
NE	.2	.6	.3	.1								1.3	5.8
ENE	.1	.5	.4	.2								1.6	6.7
E		.7	.5	.2								1.1	8.4
ESE	.4	.3	.2									1.0	4.9
SE	.6	1.0	.9									2.5	5.4
SSE	1.2	2.6	.9	.2								4.8	5.1
S	2.2	5.3	3.1	1.3								11.8	6.3
SSW	1.2	3.2	2.5									6.9	5.6
SW	1.4	4.8	1.7									8.0	5.1
WSW	2.5	4.7	1.0									8.2	4.7
W	1.4	7.2	2.3	.2								11.3	5.2
WNW	2.2	2.8	1.3	.6								6.9	5.5
NW	.3	1.4	.9	.1								3.1	5.7
NNW	.3	.9	.1									1.3	4.8
VARIABLE													
CALM	////////////////////											26.3	////
TOTALS	15.5	37.5	17.4	3.2								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.0	.4	.2							2.2	5.9
NNE	.1	.2	.4	.1							1.5	5.9
NE	.1	.2	.5	.3							1.3	7.8
ENE	.3	.7	.6	.2							1.4	6.8
E	.5	.6	1.1								2.3	6.4
ESE	.3	.6	.6	.1							1.7	6.1
SE	.9	1.4	1.2	.7							3.7	6.0
SSE	1.2	2.7	.6	.1							4.3	4.7
S	2.0	3.0	3.3	1.4							10.5	6.5
SSW	1.5	3.2	2.9	.3							8.6	6.0
SW	1.4	5.7	3.2	.2							10.1	5.9
WSW	1.9	4.1	1.5								7.5	5.0
W	2.4	6.5	3.0	.1							12.4	5.2
WNW	1.2	4.3	2.3	.5							9.6	6.4
NW	.9	2.9	1.5	.4							5.7	6.1
NNW	.4	1.0	.6	.3							2.4	6.2
VARIABLE												
CALM	////////////////////										15.9	////
TOTALS	15.8	39.4	24.0	4.9							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 930

AD-A187 849

ALPENA MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE

2/3

WEATHER OBSERVATIONS PARTS A-F(U) AIR FORCE

ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

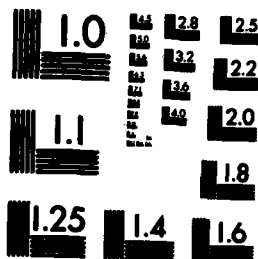
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.7	2.9	.9							5.8	7.5
NNE	.3	.8	1.1	.2							2.4	7.1
NE	.1	1.1	1.1	.4							2.7	7.2
ENE	.1	1.3	1.1								2.5	6.6
E	.2	1.1	1.4	.1							2.8	7.2
ESE		.4	1.9	.3							2.7	8.6
SE	.8	1.9	1.9	.6							5.3	6.6
SSE	.3	1.7	2.2	.2							4.4	6.8
S	1.0	4.1	5.5	.8							11.3	7.0
SSW	.4	1.6	3.4	1.2							6.7	8.0
SW	.4	2.6	4.4	1.1							8.5	7.9
WSW	.8	2.9	6.1	1.1							10.9	7.4
W	.6	3.4	5.6	.8	.1						10.5	7.3
WNW	.3	2.7	3.7	2.5							9.1	8.5
NW	.5	1.6	3.4	3.0							8.4	9.3
NNW	.1	1.8	1.9	.8	.2						4.8	8.2
VARIABLE												
CALM	////////////////////										1.3	////
TOTALS	6.1	30.8	47.6	13.9	.3						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	2.0	2.5	2.0							7.7	8.8
NNE		.6	1.6	.3							2.8	8.1
NE	.3	1.1	1.6	.3							3.3	7.4
ENE			1.2	.1							1.3	8.1
E	.2	1.7	3.4	.4							5.4	8.0
ESE		1.6	5.7	2.1							9.5	8.7
SE	.4	.6	4.2	1.6							7.0	8.7
SSE	.1	1.4	1.4	.6							3.5	7.5
S	.4	.6	4.6	2.6	.1						8.6	9.2
SSW		1.2	2.6	2.0							5.8	9.3
SW		1.6	2.9	1.3							5.8	8.5
WSW	.1	1.2	3.9	2.5							7.6	9.2
W	.3	2.5	5.2	3.6							11.0	8.8
WNW	.1	1.6	3.4	3.7	.3						9.1	10.0
NW		1.3	1.6	2.5							5.4	9.5
NNW	.1	.6	2.2	2.0	.2						5.3	10.2
VARIABLE												
CALM	////////////////////										.9	////
TOTALS	2.3	19.7	49.2	27.3	.6						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.0	4.6	2.8	.1							8.5	9.7
NNE	.2	1.0	2.0	.5								3.8	7.6
NE	.1	1.1	1.4	.3								2.9	7.6
ENE		.5	2.6	.1								3.2	8.1
E		1.5	5.5	.5								7.5	8.1
ESE	.2	1.4	9.6	3.7								14.8	8.9
SE	.1	1.7	5.1	2.3								9.1	8.7
SSE	.4	1.0	1.4	1.0								3.8	7.7
S		.8	2.7	1.5								4.9	9.3
SSW		.6	1.9	1.3	.2							4.1	10.1
SW		.6	2.5	1.2	.1							4.4	9.5
WSW	.1	1.0	2.8	1.4	.1							5.4	9.2
W	.1	1.3	4.6	2.7	.1							8.8	9.2
WNW		1.5	2.5	2.9	.1							7.0	9.8
NW		.9	2.5	3.7	.1	.1						7.2	10.7
NNW		.3	1.3	2.0								3.7	10.5
VARIABLE													
CALM	////////////////////											.9	////
TOTALS	1.3	16.1	52.9	27.8	.9	.1						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/AFAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	2.4	2.2	.5								5.5	7.0
NNE	.5	1.7	1.5	.1								3.9	6.1
NE	.4	2.2	.9									3.4	5.6
ENE		2.3	.5	.2								3.0	6.0
E	.9	2.0	1.5	.2								4.6	5.9
ESE	.8	4.6	4.9	.3								10.6	6.6
SE	1.5	5.8	5.6	.6								13.5	6.4
SSE	.4	3.0	2.8	.9								7.1	7.0
S	1.3	2.5	3.0	.5								7.3	6.4
SSW	.5	1.2	.5	.5								2.8	6.5
SW	.3	2.2	1.5	.4								4.4	6.8
WSW	.5	1.6	1.1	.3								3.5	6.5
W	1.0	3.0	2.9	.3								7.2	6.5
WNW	.5	2.0	3.9	.9	.1							7.4	7.8
NW	.2	1.1	2.5	1.1								4.8	8.3
NNW	.3	.8	2.8	1.4								5.8	9.3
VARIABLE													
CALM	////////////////////											4.9	////
TOTALS	9.6	28.3	38.2	8.9	.1							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.2	.6								2.4	5.6
NNE	.4	.7		.1							.8	4.4
NE	.4	.7	.3								1.1	4.8
ENE	.3	.4	.5	.1							1.4	6.2
E	.8	.9	.1	.2							1.9	5.1
ESE	.9	1.1	.4								2.4	4.8
SE	1.2	3.7	1.6	.5							6.7	5.8
SSE	1.9	4.7	1.3	.8							8.3	5.6
S	3.4	7.3	2.9	.5							14.2	5.3
SSW	1.1	1.8	.8	.1							3.8	5.1
SW	.8	2.4	.5								4.7	5.0
WSW	1.4	3.1	.8								5.3	4.7
W	1.5	4.3	1.3								7.1	5.2
WNW	1.4	4.6	2.6	1.0							9.6	6.3
NW	.4	2.7	1.5	.4							5.1	6.4
NNW		1.6	.3	.2							2.2	6.3
VARIABLE												
CALM	////////////////////										23.3	////
TOTALS	16.5	40.6	15.6	4.0							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.4	2.0	.9	.0						4.6	7.9
NNE	.2	.8	1.0	.2							2.2	6.9
NE	.2	.9	.8	.2							2.1	6.7
ENE	.1	.8	.9	.1							2.0	6.9
E	.3	1.0	1.7	.2							3.3	7.2
ESE	.4	1.4	2.9	.8							5.5	7.7
SE	.8	2.2	2.6	.8							6.3	7.0
SSE	.9	2.4	1.5	.5							5.3	6.2
S	1.7	3.9	3.5	1.1	.0						10.3	6.6
SSW	.8	2.1	2.0	.7	.0						5.6	6.8
SW	.8	3.1	2.2	.5	.0						6.6	6.5
WSW	1.1	2.9	2.2	.7	.0						6.9	6.5
W	1.2	4.5	3.2	.9	.0						9.9	6.5
WNW	.9	2.9	2.7	1.6	.1						8.2	7.5
NW	.4	1.7	1.9	1.4	.0	.0					5.3	8.2
NNW	.2	1.0	1.3	.9	.1						3.4	8.5
VARIABLE												
CALM	////////////////////										12.4	////
TOTALS	10.4	32.8	32.5	11.6	.2	.0					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
 MONTH: SEP HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.5	1.7	1.8	.2							4.1	6.2
NNE	.3	.3	.8	.3							1.9	7.4
NE	.4	.8	.4	.2							1.9	6.2
NNE	.1	.9	.9	.1							2.0	6.8
E		.7	.7	.2							1.6	7.2
ESE	.2	1.2	.8	.1							2.3	6.7
SE	1.4	1.3	1.9	.3							5.0	6.4
SSE	1.4	3.0	1.0	.4							5.8	5.3
S	2.3	6.1	2.9	1.6							12.9	6.1
SSW	1.3	2.4	1.8	.3							5.9	5.7
SW	1.4	3.8	2.3	.6							8.1	6.1
WSW	.9	3.1	1.3	.8							6.1	6.3
W	1.8	6.7	2.9	.2							11.6	5.6
WNW	.9	4.0	2.6	.6	.2						8.2	6.5
NW	.3	1.0	1.7	.7							3.7	7.6
NNW	.3	.4	.4	.4							1.7	7.5
VARIABLE												
CALM	////////////////////										17.4	////
TOTALS	19.1	37.1	24.1	7.0	.2						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	2.0	2.0	.1								4.6	6.6
NNE	.2	.9	1.2	.1								2.4	6.8
NE	.3	.8	1.0	.1								2.2	6.6
ENE	.3	.3	.1	.4								1.2	7.1
E	.1	.6	.6	.6								1.9	8.5
ESE	.3	1.0	.6	.4								2.3	7.1
SE	.2	1.4	1.4	.6								3.7	7.6
SSE	.9	3.4	1.2	.2								5.8	5.5
S	1.0	6.0	4.2	.9								12.1	6.5
SSW	.6	3.9	1.7	.4		.1						6.7	6.4
SW	1.3	3.1	2.2	.6								7.2	6.3
WSW	1.4	3.4	2.3	.1								7.3	5.7
W	2.3	5.9	2.6	.4								11.2	5.5
WNW	.6	2.9	2.3	.6								6.3	6.8
NW	.2	1.7	1.0	.8	.1							3.8	7.5
NNW	.6	.6	1.0	.1								2.2	6.3
VARIABLE													
CALM	////////////////////											19.1	////
TOTALS	10.9	37.9	25.4	6.4	.1	.1						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	.8	2.0	.7							3.8	7.8
NNE	.1	1.2	.8	.1							2.2	6.2
NE	.4	1.0	1.1	.2							2.8	6.5
NNE		.2	.7	.2							1.2	6.7
E		.8	1.0	.7							2.4	8.7
ESE	.2	.6	.7	1.3							2.8	9.7
SE	.7	1.5	1.4	.3							4.2	6.4
SSE	1.1	2.1	1.7	.6							5.4	6.3
S	1.4	5.7	4.2	1.3	.1						12.8	6.7
SSW	1.1	3.7	3.6	.4							8.8	6.4
SW	.9	2.4	3.2	.4							7.0	6.7
WSW	1.0	2.6	2.4	.1							6.1	6.3
W	1.7	6.2	2.2	.7							11.9	5.9
WNW	.7	3.9	2.4	.3							7.3	6.2
NW	1.0	1.1	1.6	.6							4.4	7.0
NNW	.3	.4	.8	.2							1.8	6.8
VARIABLE												
CALM	////////////////////										15.0	////
TOTALS	11.0	34.7	31.0	8.2	.1						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.8	2.9	1.6								6.7	8.2
NNL	.4	.9	1.9	.7								3.9	7.6
NE	.1	.8	1.0	.4								2.3	7.8
NNE	.1	.7	1.0	.3								2.1	7.7
E		.6	1.3	1.0	.1							3.0	9.1
ESE	.2	.9	2.6	1.2	.1							5.0	9.0
SE	.2	1.6	.9	.6								3.2	6.9
SSE	.1	1.7	2.1	1.2	.1							5.2	8.3
S	.3	2.6	6.7	2.6								12.1	8.5
SSW	.4	2.3	4.0	1.9								8.7	8.0
SW	.2	2.1	4.2	1.6								8.8	8.1
WSW	.6	2.6	3.6	2.2	.1							9.0	8.2
W	.3	2.1	4.0	2.3								8.8	8.5
WNW	.2	1.3	4.0	2.1								7.7	8.9
NW	.2	2.2	1.9	2.1	.3							6.9	9.4
NNW	.8	1.2	1.7	1.4	.1							5.2	8.4
VARIABLE													
CALM	////////////////////											1.6	////
TOTALS	4.9	25.7	43.7	23.4	.9							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.6	4.8	3.1							9.8	9.2
NNE	.1	1.0	1.8	.8							3.7	8.1
NE		.5	1.1	.6							2.6	8.1
NNE		.7	1.3	.8							2.8	8.9
E		1.0	2.1	1.2	.2						4.6	9.5
ESE	.1	1.0	3.8	1.6							6.4	9.0
SE	.1	.4	1.7	.8							3.4	8.5
SSE	.2	1.1	2.7	.9	.1						4.4	8.5
S	.1	1.3	5.8	5.0							12.2	9.8
SSW		1.2	3.0	3.0							7.2	10.0
SW		1.6	2.8	2.0	.1						6.7	9.2
WSW	.7	1.6	3.1	3.6	.1						8.5	9.7
W	.4	1.1	3.4	3.4	.1						8.6	9.6
WNW	.2	1.1	2.7	2.7							6.7	9.5
NW	.2	.7	2.0	4.2							7.1	10.8
NNW	.2	.3	1.9	1.7							4.1	9.6
VARIABLE												
CALM	////////////////////////////////////										1.2	////
TOTALS	2.3	17.2	43.4	35.1	.7						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	1.4	5.1	3.1							9.9	8.9
NNE	.1	.6	1.1	1.0							2.8	8.7
NE	.1	1.0	1.3	.4							2.9	7.6
ENE		1.0	1.7	.4							3.1	8.2
E	.1	1.0	2.9	1.4	.1						5.5	8.8
ESE	.1	2.0	5.4	2.6							10.1	8.8
SE	.1	1.4	3.2	1.2	.1						6.1	8.4
SSE		.3	1.8	1.9							4.0	9.9
S	.1	1.3	3.7	3.9	.1						9.1	10.1
SSW		1.1	2.2	1.3							5.2	9.2
SW	.1	.3	4.0	1.0							6.3	9.5
WSW		1.2	3.1	2.0							7.1	9.6
W		1.0	3.2	2.6		.1					7.1	10.1
WNW		1.8	2.6	3.7							8.0	9.6
NW	.2	.8	2.6	2.7							6.2	9.7
NNW		.7	2.4	2.7	.1						5.6	10.5
VARIABLE												
CALM	////////////////////////////////////											.7
TOTALS	1.2	16.9	46.3	34.3	.4	.1					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GF 56		
N	.2	2.3	2.2	.6								5.3	7.0
NNE	.2	1.7	1.2	.3								3.0	6.7
NE	.7	1.3	.7	.1								2.8	5.4
ENE	.2	1.9	1.2	.2								3.7	6.5
E	.7	2.4	1.2	.6								4.9	6.4
ESE	.3	1.9	2.7	.7	.1							6.1	7.3
SE	.8	3.0	2.2	.1								6.1	6.3
SSE	.8	2.9	3.8	.4	.1							8.0	6.9
S	.9	3.8	5.7	.7	.2							10.8	7.1
SSW	.2	2.4	1.3	.3								4.3	6.5
SW	.4	2.7	1.7	.4	.1							5.3	6.5
WSW	.9	1.4	.9	.7								3.9	6.7
W	.8	3.8	2.3	1.2								8.1	6.8
WNW	.4	4.1	2.3	.8								7.7	6.6
NW	.3	2.4	2.3	1.6								6.7	7.9
NNW	.2	1.3	1.9	1.6	.1							5.1	8.7
VARIABLE													
CALM	////////////////////											8.2	////
TOTALS	8.7	39.0	33.7	9.8	.7							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	1.2	1.2	.3							3.0	7.1
NNE	.6	.7	.6	.4							2.2	6.6
NE	.4	.7	.8								1.9	5.8
ENE	.2	1.2	.7	.3							2.4	6.6
E	.4	1.6	.9	.4							3.3	6.5
ESE	.4	1.0	1.3	.2							3.0	6.6
SE	.4	1.8	1.2	.4							3.9	6.7
SSE	1.2	4.3	1.7	.3							7.6	5.5
S	1.7	6.1	3.8	1.1	.3						13.0	6.5
SSW	.8	2.8	1.2	.4							5.2	6.0
SW	.4	2.2	1.2	1.0							5.0	7.2
WSW	1.3	2.4	1.4	.6							5.8	6.2
W	.7	8.1	2.1	.4							11.3	5.7
WNW	1.0	3.6	2.4	.4		.1					7.6	6.5
NW	.1	1.6	2.0	.7							4.3	7.7
NNW	.4	.7	1.2	1.0							3.3	8.3
VARIABLE												
CALM	////////////////////										17.1	////
TOTALS	10.4	40.0	23.8	8.2	.3	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.6	2.7	1.2							5.9	8.0
NNE	.3	.8	1.2	.5							2.7	7.3
NE	.3	.9	.9	.3							2.4	6.8
ENE	.1	.9	.9	.4							2.3	7.5
E	.2	1.1	1.3	.8	.1						3.4	8.1
ESE	.3	1.2	2.2	1.0	.0						4.8	8.3
SE	.5	1.7	1.7	.5	.0						4.5	7.1
SSE	.7	2.4	1.9	.7	.0						5.8	6.8
S	1.0	4.1	4.6	2.1	.1						11.9	7.6
SSW	.6	2.5	2.3	1.1		.0					6.5	7.3
SW	.6	2.4	2.7	1.1	.0						6.8	7.4
WSW	.3	2.3	2.3	1.3	.0						6.7	7.5
W	1.0	4.4	3.0	1.4	.0	.0					9.8	6.9
WNW	.5	2.8	2.7	1.4	.0	.0					7.4	7.6
NW	.3	1.4	1.9	1.7	.1						5.4	8.7
NNW	.4	.7	1.4	1.1	.0						3.6	8.7
VARIABLE												
CALM	////////////////////										10.0	////
TOTALS	7.9	31.1	33.9	16.6	.4	.0					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.2	.8	1.2								3.5	8.3
NNE	.2	.8	.4	.1								1.5	5.9
NE		.6	.4	.3								1.3	7.5
ENE			.2									.2	8.5
E		.4	.5	.4								1.4	8.8
ESE	.2	1.4	1.4	1.0	.1							4.1	8.1
SE	.2	2.3	1.3	.9								4.6	7.4
SSE	.9	2.2	1.1	.9								5.1	6.2
S	1.4	4.7	3.1	1.9								11.2	6.9
SSW	1.1	2.3	2.6	.8								6.9	6.8
SW	2.2	3.1	1.9	1.3								8.5	6.3
WSW	1.4	3.7	1.9	.4								7.4	6.0
W	1.0	7.1	3.3	.6								12.0	6.2
WNW	.4	3.4	2.3	1.9	.1							8.2	7.8
NW	.5	1.1	1.3	1.0								3.9	7.8
NNW	.1	.6	.6	.3								1.7	7.6
VARIABLE													
CALM	////////////////////											18.5	////
TOTALS	10.0	34.8	23.4	13.0	.2							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT FOUR (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.6	.5	.8	.4							2.4	7.1
NNE	.2	.6	.6	.2							1.7	6.4
NE	.2	.8	.5	.2							1.7	6.6
ENE		.4	.9	.2							1.5	7.6
E	.1	.6	.6	.2							1.6	7.4
ESE	.2	1.2	1.0	1.1	.2						3.7	9.1
SE	.8	1.1	1.6	.2	.1						3.8	7.1
SSE	.9	1.7	1.0	1.1							4.8	7.0
S	1.8	5.4	4.1	1.0							12.3	6.4
SSW	.9	2.6	2.6	.4							6.3	6.5
SW	.9	2.9	3.0	.4							7.2	6.4
WSW	1.1	3.3	2.5	.8							7.6	6.4
W	1.6	6.1	2.6	.6	.1						11.1	5.9
WNW	.4	3.2	2.9	1.4							8.0	7.4
NW	.6	1.5	1.6	.9							4.6	7.5
NNW	.3	.2	.4	.6							1.6	8.4
VARIABLE												
CALM	////////////////////										20.1	////
TOTALS	10.6	32.5	26.5	9.9	.4						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	.1	1.3	.4							2.2	8.4
NNE	.3	.7	.5	.2							1.6	6.9
NE	.1	1.1	.8	.1							2.0	6.8
ENE	.3	.6	.5	.3							1.8	6.9
E	.5	.7	1.0	.3							2.2	6.9
ESE	.3	.7	1.4	1.2	.1	.1					4.0	9.6
SE	.3	1.6	1.7	.5							4.4	7.0
SSE	1.0	1.7	1.6	.3							4.6	7.0
S	1.2	5.5	4.5	1.7	.1						13.0	7.2
SSW	1.5	3.7	1.4	.2							7.5	5.6
SW	.5	3.0	2.8	.5							6.9	6.5
WSW	1.3	3.1	1.7	.4							6.8	6.1
W	1.2	4.9	3.9	.4	.1						10.5	6.4
WNW	.9	3.7	3.4	.6	.1						8.7	6.8
NW	.5	1.4	2.6	1.0	.1						5.6	8.0
NNW	.1	.2	.4	1.1							1.8	9.8
VARIABLE												
CALM	////////////////////										16.3	////
TOTALS	10.4	32.4	30.1	10.1	.5	.1					100.0	5.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.6	2.5	1.2	.2							4.8	9.2
NNL		.6	.9	.7								1.7	7.9
NE	.3	.6	1.1	.9								3.1	8.1
ENE		1.0	.6	.4								2.0	7.7
E	.1	1.7	1.5	.8								3.7	8.2
ESE	.2	1.0	2.4	1.3								4.8	8.9
SE	.4	.7	1.7	2.5	.1							5.3	9.9
SSE	.2	1.5	1.9	1.7	.1							5.5	9.0
S	.3	3.1	5.1	3.3	.4							12.3	8.9
SSW	.4	1.4	4.4	1.6	.2							8.1	8.7
SW	.6	1.6	3.3	1.4	.2							7.4	8.2
WSW	.6	2.7	3.7	1.7								8.7	7.8
W	.9	2.7	5.1	2.2								10.5	8.1
WNW	.3	1.6	3.5	2.8	.4							8.7	9.4
NW	.4	1.0	1.8	2.8	.1							6.1	9.8
NNW	.3	.4	.8	2.3	.2							4.0	10.6
VARIABLE													
CALM	////////////////////											3.2	////
TOTALS	5.5	22.0	40.2	27.0	2.0							100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	.0	2.2	1.5	.3						4.9	9.9
NNE		.0	1.0	.3							1.7	8.0
NE	.2	.7	1.0	.0							2.3	8.8
ENE		1.0	.9	.4							2.3	7.9
E	.1	.4	2.2	1.3							4.2	9.0
ESE	.3	1.0	3.8	3.4							9.5	9.1
SE	.2	.9	2.0	3.3							6.5	10.4
SSE		1.0	1.2	1.4	.2						3.9	9.9
S	.1	1.4	4.0	5.6	.3						11.4	10.6
SSW	.1	1.1	2.9	1.7	.1						5.9	9.1
SW		1.2	2.3	3.8	.1						7.3	10.5
WSW		.5	2.7	3.1	.2						6.9	10.4
W	.2	2.2	4.4	2.9	.1						9.8	9.4
WNW	.1	.7	3.8	3.9	.6						8.9	11.1
NW	.1	.5	2.2	4.9	.6						8.4	11.9
NNW	.2	1.0	2.0	2.4	.4						6.0	10.3
VARIABLE												
CALM	////////////////////										.3	////
TOTALS	1.9	15.6	38.3	40.8	3.1						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT FOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.0	3.6	1.8	.1							6.7	9.2
NNE	.1	.5	1.3	.2								2.2	7.4
NE	.1	.7	1.1	.5								2.0	8.4
NNE	.1	.0	1.2	.2								2.3	7.2
E	.3	2.3	4.0	1.0								7.5	7.8
ESE	.2	1.6	7.5	2.9								12.3	8.8
SE	.1	1.6	3.8	2.6	.2							8.3	9.2
SSE		.7	1.9	1.7								4.0	10.5
S	.1	.5	2.9	3.3	.6							7.5	10.8
SSW		.2	1.7	1.9								4.0	10.5
SW	.1	1.1	1.6	2.9								5.7	9.9
WSW	.2	1.5	2.4	1.6	.3							6.0	9.1
W	.2	1.5	3.8	2.1	.1							8.7	9.6
WNW	.1	.6	3.2	4.5	.9							9.4	11.3
NW		1.0	1.6	4.2	.4							7.5	11.3
NNW		.4	2.2	2.6								5.2	10.6
VARIABLE													
CALM	////////////////////											.9	////
TOTALS	1.7	15.4	44.2	35.2	2.7							100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.2	1.4	1.4	.4								3.4	7.1
NNE	.5	.7	.6	.1								2.0	6.1
NE	.5	1.0	.2									1.7	4.8
ENE	.9	1.5	.6	.1								3.0	5.0
E	.5	1.9	1.0	.4								3.9	6.2
ESE	.9	4.5	2.0	.8								8.2	6.3
SE	.9	3.7	3.7	1.0								9.0	6.6
SSE	.2	3.7	2.2	.6	.1							6.8	6.9
S	1.3	3.8	4.4	1.7	.1							11.3	7.2
SSW	.6	1.0	1.7	1.0								4.3	7.9
SW	.5	1.7	2.2	1.2								5.2	7.8
WSW	.2	2.0	1.5	1.2	.2							5.7	7.7
W	.6	4.2	2.7	1.5								9.0	7.1
WNW	.3	2.6	3.0	2.4	.2							8.5	8.8
NW	.1	1.4	3.3	1.6	.1							6.6	9.0
NNW	.1	.9	1.2	.6								2.8	8.0
VARIABLE													
CALM	////////////////////////////////////											8.6	////
TOTALS	8.9	35.4	31.7	14.6	.6							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM POORLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT FOURS (LST): 2100-2300

DIRECTION (OF SPEED)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.2	.8	.9	1.1							2.9	8.4
NNE	.2	1.1	.2	.3							1.8	6.2
NE	.2	.4	.2	.1							1.1	5.1
ENE	.1	.2	.1	.1							.5	7.0
E		.6	.4	.6							1.6	7.9
ESE	.2	1.2	1.7	1.4							4.1	8.3
SE	1.0	2.6	1.2	.5							5.3	6.0
SSE	1.0	4.5	1.8	1.6	.2						8.6	7.2
S	1.6	6.8	3.2	1.5	.1						13.2	6.7
SSW	.3	2.7	2.2	1.3							5.7	7.4
SW	.3	2.4	1.8	.5							5.3	7.2
WSW	.2	2.4	1.6	.7							5.1	7.3
W	.4	5.6	3.0	1.1	.1						10.5	6.7
WNW	.4	4.2	3.3	1.2							9.1	7.4
NW	.9	.6	2.4	1.3	.1						5.5	8.4
NNW		.8	1.0	.6							2.4	8.6
VARIABLE												
CALM	////////////////////										17.1	////
TOTALS	7.5	35.9	25.1	13.7	.5						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726350 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	.8	1.7	1.0	.1						3.9	8.7
NNE	.2	.7	.7	.2							1.8	6.9
NE	.2	.7	.7	.4							1.9	7.3
NNE	.2	.7	.6	.2							1.7	6.9
E	.2	1.7	1.4	.6							3.3	7.8
ESE	.3	1.7	2.6	1.6	.1	.0					6.3	8.5
SE	.5	1.8	2.1	1.4	.1						5.9	8.0
ESE	.5	2.0	1.6	1.2	.1						5.4	7.8
S	1.0	3.4	3.4	2.5	.2						11.5	7.9
SSW	.6	1.3	2.5	1.1	.0						6.1	7.6
SW	.6	2.1	2.4	1.5	.0						6.7	7.8
WSW	.7	2.4	2.2	1.3	.1						6.8	7.6
W	.3	4.3	3.6	1.6	.1						10.3	7.3
WNW	.4	2.5	3.2	2.3	.3						9.7	8.9
NW	.4	1.1	2.1	2.2	.2						6.0	9.5
NNW	.1	.8	1.1	1.3	.1						3.2	9.7
VARIABLE												
CALM	////////////////////										10.6	////
TOTALS	7.1	29.0	32.4	20.6	1.3	.0					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAG
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.5	1.2	.8	.3							3.3	9.6
NNE	.1	.1	.7	.2								1.1	8.5
NE	.1	.1	.3	.4								1.0	9.1
ENE	.1	.1	.6	.7								1.4	9.7
E	.3	.2	.7	.6								1.8	8.2
ESE	.6	.9	1.3	1.3								4.1	8.6
SE	.7	.6	1.0	.4								2.7	6.9
SSE	1.1	1.2	1.2	.9	.1							5.1	6.8
S	1.7	4.5	5.4	1.9	.1							14.0	7.3
SSW	.7	2.4	3.0	1.1	.1							7.3	7.4
SW	.4	2.7	1.6	2.1	.3	.1						7.4	8.8
WSW	.8	2.3	3.0	2.0		.1						8.2	8.1
W	1.1	4.1	4.8	1.4	.3							11.8	7.5
WNW	.3	2.4	4.0	1.2								8.0	7.8
NW	.4	.7	1.7	1.8								4.6	9.4
NNW	.1	.8	1.6	2.1								4.6	9.5
VARIABLE													
CALM	////////////////////											13.6	////
TOTALS	8.8	25.0	32.2	18.9	1.3	.7						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.7	.2	1.9	.4							3.3	11.3
NNE	.2	.3	.6		.1							1.2	7.7
NE	.1	.7	.7	.3								1.8	6.1
ENE		.7	.9									1.2	7.2
E	.2	.1	.6	1.1								2.0	10.8
ESE	.1	.7	1.0	2.0								3.4	10.6
SE	.8	1.7	1.3	.7								4.4	7.2
SSE	.7	2.3	1.9	.9								5.7	7.0
S	1.0	3.7	5.8	1.1	.3							11.9	7.4
SSW	.7	2.0	1.9	.4								5.8	6.5
S2	.5	2.3	2.6	1.4	.1	.1						7.3	7.9
WSW	.4	2.0	3.2	2.4	.2							9.2	8.5
W	1.0	4.1	3.9	1.4	.3							11.1	7.5
WNW	.9	4.4	3.6	1.3								10.2	7.0
NW	.3	1.4	.9	2.7	.1							5.0	9.4
NNW	.3	.7	.6	.9								2.7	8.6
VARIABLE													
CALM	////////////////////											13.7	////
TOTALS	7.7	28.9	24.6	18.4	1.7	.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	.2	1.4	2.1	.6	.1					4.9	11.0
NNE	.1	.4	.8	.2							1.9	7.4
NE		.6	.7	.3							1.6	8.1
ENE	.2	.6	.6	.1							1.4	6.1
E	.1		1.0	.9	.1						2.1	10.9
ESE	.3	.3	1.1	1.3	.3						3.9	9.5
SE	.3	1.4	1.3	2.1	.1						5.3	9.0
SSE	.9	2.1	1.3	.6	.1						5.0	6.6
S	1.6	3.7	4.4	1.3	.1						11.1	7.3
SSW	1.0	2.7	2.4	.7	.1						6.9	6.8
SW	.2	3.4	1.8	1.6							7.0	7.5
WSW	.9	3.4	3.1	1.4	.2						9.2	7.5
W	1.0	5.1	3.9	1.8							11.8	7.0
WNW	.7	2.9	3.6	1.6							8.7	7.6
NW	.4	1.4	1.4	2.2	.1						5.7	9.3
NNW	.2	.4	.3	.6							1.9	7.9
VARIABLE												
CALM	////////////////////										11.7	////
TOTALS	8.4	29.9	29.2	18.6	1.9	.1					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	.4	1.4	2.4	.2	.7					4.9	11.6
NNE	.1	.7	1.4	.7							2.1	8.7
NE	.1	.7	1.6	.2							2.6	8.0
ENE		.7	.7	.4							1.3	8.9
E		.7	.7	1.2	.1						2.2	10.9
ESE	.2	.7	1.6	1.4							3.8	10.5
SE	.4	1.4	1.6	1.1	.3						4.9	8.9
SSE	.4	.4	1.1	1.4	.1						4.2	8.7
S	.7	3.0	5.1	3.1	.6						12.4	3.8
SSW	.7	2.7	3.6	1.1	.1						7.4	8.0
SW	.9	2.7	4.4	2.0	.3						10.3	8.3
WSW	.3	3.2	3.7	1.9	.4						9.6	8.1
W	.1	3.1	4.1	2.0	.2						9.6	8.3
WNW	.6	2.2	4.1	3.0							9.9	8.9
NW		2.0	2.0	1.6	.1						5.7	8.7
NNW	.2	.6	1.8	1.7	.4	.1					5.1	10.4
VARIABLE												
CALM	////////////////////										4.0	////
TOTALS	4.0	23.7	38.8	25.4	3.0	.3					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.6	2.0	2.9	.4							6.1	11.1
NNE	.1	.7	.9	.3								1.7	8.4
NE	.2	.7	1.7	.6								2.8	8.6
NNE		.3	1.0	.4								1.8	8.4
E		.6	2.3	1.7								4.6	9.5
ESE	.1	.6	2.2	1.6								4.4	9.6
SE	.2	.6	1.2	2.0								4.2	10.0
SSE	.2	.4	1.0	1.2	.7	.1						4.6	10.7
S	.8	1.9	5.1	3.8	.1	.1						11.8	9.3
SSW	.1	1.7	2.4	2.1	.1	.2						6.3	10.1
SW		1.4	3.1	3.3	.4							8.3	10.4
WSW	.1	2.0	2.9	3.8	.7							9.4	10.5
W	.1	1.9	5.0	3.7	.1							10.8	9.5
WNW	.2	1.1	4.4	4.1	.1							10.0	10.0
NW		.9	2.4	3.7	.3							6.9	11.2
NNW		.2	2.0	3.2	.2							5.7	11.4
VARIABLE													
CALM	////////////////////											.7	////
TOTALS	7.4	14.2	40.7	38.3	3.2	.4						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/JMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MT

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	1.3	2.6	2.4	.2						7.0	9.3
NNE		.6	1.1	.3	.1	.1					2.2	9.3
NE	.2	.8	1.2	.4							2.7	7.4
ENE	.2	.7	1.3	.3							2.6	7.9
E	.2	1.6	1.8	1.3							4.9	8.0
ESE	.3	1.2	3.3	.6	.1						5.8	8.2
SE	.1	1.7	2.4	1.8	.1						6.1	8.9
SSE		.8	2.2	1.4	.1						4.6	9.6
S	.3	3.6	3.0	3.2							10.1	8.3
SSW	.1	.9	2.1	1.9	.3	.1					5.4	10.3
SW	.6	1.9	2.1	1.8	.1						6.4	8.1
WSW	.2	2.2	3.1	3.7	.2						9.4	9.7
W	.5	2.1	3.9	3.0	.2						9.8	8.8
WNW	.1	2.4	3.8	3.3	.1						9.8	9.2
NW		.9	2.8	3.7	.4						7.8	11.0
NNW		.8	1.3	2.1	.2						4.4	11.2
VARIABLE												
CALM	////////////////////										1.0	////
TOTALS	3.4	23.3	38.1	31.6	2.3	.2					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	1.1	1.0	1.6	.2						4.2	9.5
NNE	.3	.4	.6	1.0							2.3	8.9
NE	.1	.4	1.3	.3							2.2	8.3
ENE		1.7	1.7								3.3	6.8
E	.1	1.1	.9	.6							2.7	8.0
ESE	.2	.5	.9	.5							2.6	8.3
SE	.6	2.9	2.0	1.9	.1						7.4	7.9
SSE	.9	3.4	1.9	.9							7.0	6.8
S	1.1	6.8	5.0	1.0	.1						14.0	6.7
SSW	.2	1.7	1.7	1.7	.1	.1					5.4	9.0
SW	.3	1.7	1.7	2.1							5.4	9.1
WSW	.6	2.7	1.7	2.7							7.2	8.4
W	.3	4.2	2.4	1.0							8.0	6.9
WNW	.7	2.6	1.4	2.0	.2						8.9	8.3
NW		1.4	3.1	1.8	.2						6.9	9.0
NNW	.1	.7	.7	1.7	.6	.1					3.9	12.0
VARIABLE												
CALM	////////////////////											8.2
TOTALS	5.6	33.3	29.9	21.2	1.6	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	.7	1.6	1.9	.1							4.2	10.2
NNE		.6	.2	.8								1.6	9.7
NE		.4	1.0	.3								1.8	8.3
NNE	.1	.9	1.1	.6								2.7	8.2
E	.1	.7	1.7	.6								2.6	9.1
ESE	.6	.7	.9	.6								2.7	7.2
SE	.2	.9	1.1	.9	.1							3.2	8.4
SSE	1.0	2.4	1.7	1.4								6.6	7.0
S	1.3	5.4	4.8	2.8	.1							14.4	7.5
SSW	1.0	2.4	2.7	1.3	.2							7.7	7.9
SW	.6	2.7	3.1	2.0	.2							8.6	8.3
WSW	1.1	1.7	3.1	1.6								7.1	7.8
W	1.7	4.6	2.4	.9								8.9	6.5
WNW	.6	2.1	3.4	1.4	.1							7.7	8.0
NW	.3	1.4	3.2	1.3	.2							6.6	8.6
NNW		.4	1.0	1.9	.3							3.7	11.2
VARIABLE													
CALM	////////////////////											10.2	////
TOTALS	9.3	26.0	33.0	20.2	1.4							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV FOURS (LAST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	.7	1.4	2.0	.3	.7						4.7	10.4
NNE	.1	.4	.8	.4	.0	.0						1.8	8.6
NE	.1	.6	1.1	.4								2.0	9.2
ENE	.1	.6	1.0	.7								2.0	7.8
E	.1	.5	1.2	1.0	.0							2.8	9.2
ESE	.3	.7	1.5	1.3	.1							3.9	9.1
SE	.4	1.4	1.5	1.4	.1							4.8	8.5
SSE	.7	1.0	1.6	1.1	.1	.7						5.3	7.7
S	1.1	4.1	4.8	2.3	.2	.0						12.5	7.8
SSW	.5	2.1	2.5	1.3	.1	.1						6.5	8.2
SW	.5	2.3	2.6	2.0	.2	.0						7.6	8.6
WSW	.6	2.5	3.0	2.4	.7	.0						8.7	8.6
W	.7	3.7	3.8	1.9	.2							10.2	7.8
WNW	.5	2.6	3.8	2.2	.1							9.1	8.4
NW	.2	1.3	2.2	2.3	.2							6.1	9.7
NNW	.1	.7	1.2	1.8	.2	.0						4.0	10.5
VARIABLE													
CALM	////////////////////											7.9	////
TOTALS	6.2	25.6	33.9	24.1	2.1	.2						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	.3	.6	.9	.2						2.4	9.9
NNE	.3	.4	.3	.3							1.4	7.2
NE	.7	.6	1.0	.3							2.2	7.6
ENE	.3	.2	.5	.2							1.3	7.5
E	.1	.3	.2	.4							1.4	9.2
ESE	.2	1.0	.5	.9							2.5	7.7
SE	.5	1.1	1.4	1.3							4.4	8.0
SSE	1.0	1.2	1.5	1.3	.1						5.1	7.6
S	1.5	4.7	4.9	2.7	.1						14.0	7.6
SSW	.3	2.1	3.4	1.7							7.2	7.6
SW	.4	4.2	4.5	2.0	.1						11.6	7.6
WSW	.6	5.1	4.7	2.5	.2						13.5	7.6
W	.8	3.7	4.5	1.6	.5	.2					11.3	8.3
WNW	.2	2.2	2.9	2.6	.2						8.1	8.9
NW	.4	1.2	1.9	2.6	.1						6.2	9.6
NNW	.1	.5	.4	1.0	.1						2.2	9.3
VARIABLE												
CALM	////////////////////////////////////										5.4	////
TOTALS	7.8	29.6	33.5	21.7	1.7	.7					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.9	.2	.8	.6	.1						2.6	7.9
NNE	.1	.7	.6	.2	.1						1.4	8.6
NE	.2	.8	.6	.1							1.7	6.4
ENE	.1	.1	.9	.1							1.2	8.5
E	.1	.4	.2	1.2							1.9	9.4
ESE	.3	1.0	.4	1.9							3.7	9.1
SE	.5	1.1	1.2	.5							3.4	7.0
SSE	.6	2.7	1.6	1.7							6.2	7.2
S	.4	3.4	4.6	3.1	.1						11.7	8.2
SSW	.5	2.7	3.8	1.5							8.5	7.5
SW	1.1	4.4	7.1	2.6							11.6	7.4
WSW	1.0	4.5	4.6	1.7	.1						11.9	7.3
W	.6	3.1	5.8	7.0	.7	.1					12.0	8.4
WNW	.8	2.4	2.8	2.6							8.7	8.6
NW	.2	.4	1.7	1.9	.3						4.0	10.5
NNW	.1	.6	.5	1.7							3.0	9.8
VARIABLE												
CALM	////////////////////										5.7	////
TOTALS	7.6	28.6	33.4	23.4	1.1	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.2	.4	1.1	.2							2.3	11.4
NNE	.1	.8	.9	.2								1.9	7.6
NEL	.1	.1	.9	.1								1.1	8.2
ENE		.1	.3	.2								.6	9.7
E	.1	.1	.4	1.6								2.3	10.9
ESE		.8	1.2	1.7								3.7	10.0
SE	.3	1.5	1.6	.6	.1							4.2	7.5
SSE	.5	2.6	1.4	.9								5.4	7.1
S	.9	4.0	5.9	3.4	.1							14.3	8.0
SSW	.8	2.5	3.7	.6								7.5	7.0
SW	.4	4.6	4.6	1.2								11.5	7.6
WSW	1.0	3.7	3.2	1.7								9.2	7.3
W	1.1	4.6	6.1	1.2	.1							13.1	7.3
WNW	.4	2.5	3.2	1.7	.2							8.1	8.4
W	.2	.9	1.6	1.5	.4							4.6	10.0
NNW	.2	.2	.9	2.0								3.4	10.8
VARIABLE													
CALM	////////////////////////////////////											6.8	////
TOTALS	6.7	28.8	36.2	20.5	1.3							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	.7	1.0	1.1	.2	.1					3.7	9.3
NNE	.1	.4	.8	.2	.1						1.6	8.5
NE	.2	.1	.2	.1	.1						.4	8.4
ENE	.1	.7	.5	.4							1.4	9.2
E	.2	.2	.6	1.4							2.5	10.3
ESE	.2	.2	.6	1.6	.1						2.8	11.1
SE	.2	.5	.9	1.6							3.5	9.6
SSE	.3	2.2	1.8	1.1							5.4	7.8
S	.5	4.1	5.2	3.3	.1						13.2	8.2
SSW	.5	1.7	4.3	2.3							9.8	8.5
SW	.4	1.7	5.5	2.4	.1						10.1	8.6
WSW	.5	3.7	4.8	2.6	.2						11.8	8.2
W	1.0	3.1	5.0	2.3							12.3	7.8
WNW	.3	1.7	4.3	2.0	.2						9.0	8.9
NW	.2	1.3	1.6	1.9	.1						5.2	9.6
NNW	.2	.4	.9	1.8	.5						3.9	11.6
VARIABLE												
CALM	////////////////////										4.1	////
TOTALS	5.6	22.5	38.9	26.6	1.8	.1					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726350 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(151): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N	.1	1.2	1.2	1.4	.3	.1						4.7	10.8
NNE	.1	.3	.8									1.2	6.3
NE		.3		1.2								1.5	11.3
ENE		.3	.5	.6	.1							1.6	10.2
E		.4	.3	1.4								2.2	10.8
ESE	.1	.4	.6	1.9	.3							3.4	11.9
SE	.2	.6	.9	2.2								3.9	10.4
SSE	.3	1.1	1.7	.8								3.9	8.1
S		2.0	5.2	3.8	.3							11.3	9.6
SSW		.5	3.0	2.4								6.1	9.8
SW	.2	1.4	4.3	4.4	.2							10.5	10.0
WSW	.1	2.2	5.6	5.1	.6							13.5	10.3
W	.2	2.6	4.9	5.5	.2							13.4	9.6
WNW	.1	.9	5.7	2.6	.3							9.6	9.8
NW	.2	.6	3.1	2.4	.6							7.0	10.6
NNW	.3	.8	1.9	1.9	.2	.1						5.3	10.2
VARIABLE													
CALM	////////////////////											.9	////
TOTALS	2.0	15.9	39.8	37.8	3.3	.2						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.3	1.2	2.3	1.4		.2					5.4	9.2
NNE	.2	.3	.4	.4							1.4	8.5
NE		.3	.4	.5							1.3	10.4
ENE	.1	.4	.6	.1	.1						1.4	8.1
E	.2	.6	.5	1.4							2.8	9.4
ESE	.2	.6	.9	1.2	.1						3.0	9.9
SE	.1	.7	1.7	1.6	.1						4.2	9.8
SSE	.5	1.4	1.5	1.5							4.9	7.8
S	.8	2.2	4.0	2.5	.1						10.4	8.5
SSW	.1	1.3	2.5	1.4							5.3	9.1
SW	.4	1.8	3.5	3.3	.4						8.7	10.0
WSW	.5	2.0	4.7	3.9	.3						11.5	9.4
W	.3	3.9	6.2	4.7							15.2	9.0
WNW	.1	2.6	5.4	2.9	.2						11.2	8.9
NW	.4	1.3	2.6	2.2	.6	.1					7.2	10.1
NNW	.1	.0	1.5	2.2		.1					4.7	10.1
VARIABLE												
CALM	////////////////////											1.4
TOTALS	4.5	20.6	39.8	31.2	2.0	.4					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										GE 56	TOTAL	MEAN
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			WIND
N	.9	1.4	.8	.8								3.7	6.7
NNE	.4	.5	.1	.2								1.3	6.2
NE		.2	.8	.5								1.5	10.5
ENE	.2	.5	.2	.2								1.2	6.3
E	.2	.5	.9	.4								2.0	7.8
ESE	.2	.4	1.2	.9								2.7	9.3
SE	.3	1.6	1.3	1.4								4.6	8.3
SSE	.4	2.0	2.8	.9								6.1	7.5
S	1.2	3.4	5.1	1.6	.2							11.8	7.4
SSW	.4	1.0	2.6	1.1								7.0	7.4
SW	.2	2.4	4.1	2.8	.3							9.8	9.0
WSW	.9	2.0	4.4	2.4	.3							11.0	8.4
W	.9	5.1	5.2	1.2	.1							12.4	7.0
WNW	1.0	3.7	3.7	1.6	.2							10.1	7.4
NW	.0	1.6	2.0	2.4	.6							7.3	9.7
NNW	.2	.4	.9	1.0								2.5	9.4
VARIABLE													
CALM	////////////////////											5.1	////
TOTALS	8.7	30.1	35.6	19.2	1.8							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	.5	1.2	.8								2.8	8.3
NNE	.3	.7	.3	.4								1.3	7.8
NE	.1	.4	.6	.3	.1							1.6	8.4
ENE	.1	.3	.6	.2								1.2	7.8
E	.1	.1	.5	.9								1.6	10.3
ESE	.2	.5	.8	1.4								2.9	9.7
SE	.4	.7	1.7	.9								3.2	8.4
SSE	.9	2.7	1.7	.6								5.9	6.5
S	.8	3.5	6.3	1.4								12.6	7.6
SSW	.2	2.9	4.0	1.7	.1							8.9	8.0
SW	.2	3.1	4.9	2.3	.1	.1						10.8	6.5
WSW	.5	4.2	4.5	2.7	.1							11.8	8.0
W	.8	2.1	3.5	1.3	.1							11.8	6.9
WNW	.5	2.7	3.3	1.6	.3							9.5	8.3
NW	.2	1.2	1.8	2.0	.4							6.2	10.2
NNW	.2	.1	.9	1.2		.1						2.5	10.6
VARIABLE													
CALM	////////////////////											6.2	////
TOTALS	5.9	26.7	36.9	20.8	1.3	.2						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(1ST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.4	.7	1.0	1.0	.1	.1		3.4	9.2
NNE	.2	.4	.5	.3	.0			1.4	7.6
NE	.1	.4	.6	.4	.0			1.5	8.8
ENE	.1	.7	.5	.3	.0			1.2	8.4
E	.1	.7	.5	1.1				2.1	9.8
ESE	.2	.6	.8	1.4	.1			3.1	9.9
SE	.3	1.0	1.3	1.3	.0			3.9	8.6
SSE	.6	2.0	1.8	1.0	.0			5.4	7.4
S	.8	3.0	5.3	2.9	.1			12.4	8.1
SSW	.9	2.0	3.4	1.5	.0			7.4	8.0
SW	.5	2.9	4.3	2.7	.2	.0		10.6	8.5
WSW	.6	3.0	4.6	2.8	.2			11.8	8.3
W	.7	4.0	5.3	2.1	.2	.0		12.7	8.1
WNW	.9	2.7	3.9	2.3	.2			9.2	8.6
NW	.3	1.1	2.1	2.2	.4	.0		6.0	10.0
NNW	.2	.9	1.0	1.6	.1	.0		3.4	10.3
VARIABLE									
CALM	////////////////////							4.4	////
TOTALS	6.0	25.7	36.8	25.2	1.8	.2		100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87
MONTH: ALL HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.4	1.2	2.3	2.1	.2	.0	.0					6.2	9.4
NNE	.3	.4	1.0	.6	.0	.0	.0					2.7	8.0
NE	.2	.4	1.0	.5	.0							2.5	7.7
ENE	.2	.6	.9	.4	.0							2.1	7.8
E	.2	.0	1.7	1.0	.0	.0						3.9	8.6
ESE	.3	1.7	2.6	1.5	.1	.0						5.8	8.7
SE	.5	1.7	2.1	1.2	.0	.0	.0					5.5	7.9
SSE	.7	1.9	1.5	.8	.1	.0						4.9	7.1
S	1.0	3.1	3.6	1.8	.1	.0						9.7	7.6
SSW	.4	1.6	2.0	1.0	.0	.0						5.1	7.7
SW	.5	1.5	2.2	1.2	.1	.0						6.0	7.9
WSW	.0	2.4	2.4	1.3	.1	.0						6.9	7.7
W	.0	3.0	3.6	1.7	.1	.0						10.0	7.5
WNW	.5	2.5	2.4	2.4	.2	.0						9.0	8.7
NW	.3	1.4	2.3	2.4	.3	.0						6.8	9.8
NNW	.2	.7	1.4	1.8	.2	.0	.0					4.5	10.2
VARIABLE													
CALM	////////////////////////////////////											8.5	////
TOTALS	7.1	26.7	34.0	21.7	1.7	.2	.0					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 87643

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87
MONTH: ALL HOURS(IST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILITIES 1/2 MILE OR MORE

AND/OR

CEILINGS 200 FEET OR MORE WITH VISIBILITIES 1/2 TO 2-1/2 MILES

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.4	1.6	2.7	3.3	.3	.1	.0					3.4	9.9
NNE	.2	1.0	2.0	1.2	.1							4.5	8.8
NE	.2	1.3	2.1	1.2	.1							4.9	8.5
NNE	.2	1.2	2.0	1.0	.0							4.4	8.4
E	.3	1.4	2.7	2.0	.1							6.5	9.0
ESE	.3	2.0	3.2	1.9	.1	.0						7.5	8.7
SE	.5	2.0	2.7	2.0	.2							7.4	8.6
SSE	.6	2.0	2.0	1.3	.1	.0						6.0	8.0
S	.6	2.7	3.6	1.7	.1	.0						8.7	7.9
SSW	.3	1.2	1.3	.3	.0	.0						3.2	7.0
SW	.3	1.3	.9	.3	.0							2.8	6.8
WSW	.4	1.4	1.0	.4	.0							3.3	6.8
W	.5	2.3	2.4	1.1	.1	.0						6.5	7.7
WNW	.3	1.5	3.4	2.0	.3	.0						7.6	9.2
NW	.2	1.1	2.6	3.0	.5	.1						7.5	10.5
NNW	.2	.6	1.7	2.7	.3	.1	.0					5.9	10.7
VARIABLE													
CALM	////////////////////////////////////										5.0	////	
TOTALS	5.6	24.7	36.3	25.6	2.4	.3	.0					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 14501

FORM 6113

PPPPPPP	AAAAAA	RRRRRRR	TTTTTTTT	DDDDDDDD
PPPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTT	DDDDDDDDD
PP PP	AP AA	RR RR	TT	DD DD
PP PP	AA AA	RR RR	TT	DD DD
PPPPPPPP	AA AA	RRRRRRRR	TT	DD DD
PPPPPPPP	AAAAAAAAA	RRRRRRRR	TT	DD DD
PP	AAAAAAAAA	RP RR	TT	DD DD
PP	AP AA	RP RR	TT	DD DD
PP	AP AA	RR RP	TT	DDDDDDDD
PP	AA AA	RR RR	TT	DDDDDDDD

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM "0" THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-FOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

NOTES:

BEGINNING IN 1968, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPRESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

CLEAR	-	0/10
SCATTERED	-	3/10
BROKEN	-	4/10
OVERCAST	-	10/10
OBSURED	-	10/10

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	22.3	31.1	31.3	31.5	31.5	31.5	31.5	31.5	31.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 20000	23.3	32.5	32.7	32.9	32.9	32.9	32.9	32.9	32.9	33.1	33.1	33.1	33.1	33.1	33.1	33.1
GE 18000	23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2
GE 16000	23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2
GE 14000	23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2
GE 12000	24.3	33.4	33.7	33.9	33.9	33.9	33.9	33.9	33.9	34.1	34.1	34.1	34.1	34.1	34.1	34.1
GE 10000	24.8	34.1	34.3	34.5	34.5	34.5	34.5	34.5	34.5	34.7	34.7	34.7	34.7	34.7	34.7	34.7
GE 9000	24.8	34.2	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 8000	25.6	35.2	35.7	35.9	35.9	35.9	35.9	35.9	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1
GE 7000	26.0	35.7	36.2	36.5	36.5	36.5	36.5	36.5	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7
GE 6000	26.2	35.9	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 5000	26.9	36.7	37.2	37.7	37.7	37.7	37.7	37.7	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 4500	27.8	37.7	38.4	39.0	39.1	39.1	39.1	39.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4
GE 4000	28.2	38.2	38.8	39.5	39.6	39.6	39.6	39.6	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 3500	29.1	40.1	40.9	41.8	42.0	42.0	42.0	42.0	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 3000	31.1	43.3	44.5	45.5	45.8	45.8	45.8	45.8	45.8	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 2500	36.7	51.6	53.1	54.3	55.2	55.3	55.6	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 2000	41.6	61.4	63.9	65.3	67.6	68.1	68.8	69.2	69.6	69.8	69.8	69.9	69.9	70.1	70.1	70.1
GE 1800	43.4	64.8	67.3	68.9	71.8	72.3	73.1	73.7	74.0	74.2	74.2	74.3	74.3	74.5	74.5	74.5
GE 1500	45.8	69.9	73.0	74.8	78.2	78.6	80.0	80.9	81.2	81.7	81.7	81.7	81.8	82.2	82.2	82.2
GE 1200	46.9	71.8	75.1	77.1	80.6	81.2	82.6	83.7	84.1	84.7	84.8	84.8	84.9	85.1	85.3	85.3
GE 1000	47.0	73.3	77.1	79.2	83.2	83.6	85.6	86.7	87.5	88.6	88.7	88.7	88.8	89.0	89.2	89.2
GE 900	47.1	73.5	77.4	79.6	83.9	84.6	86.5	87.7	88.6	89.7	89.8	89.8	89.9	90.1	90.3	90.3
GE 800	47.1	73.7	77.5	79.9	84.2	85.4	87.2	88.9	89.8	90.9	91.2	91.2	91.3	91.6	91.8	91.8
GE 700	47.2	74.0	78	80.5	84.8	86.1	88.0	89.9	90.8	91.9	92.4	92.4	92.5	93.1	93.3	93.3
GE 600	47.3	74.2	78.3	81.1	85.4	86.7	89.0	91.0	91.8	93.4	94.0	94.1	94.2	94.8	95.1	95.1
GE 500	47.3	74.3	78.4	81.4	85.7	87.0	89.4	91.3	92.4	94.6	95.9	96.0	96.2	97.0	97.2	97.2
GE 400	47.3	74.4	78.5	81.6	86.1	87.4	89.8	91.6	92.9	95.2	96.9	97.1	97.4	98.2	98.4	98.4
GE 300	47.3	74.4	78.5	81.7	86.2	87.5	89.9	92.2	93.2	95.5	97.4	97.6	98.2	98.9	99.1	99.1
GE 200	47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.5	99.7
GE 100	47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.6	99.9
GE 0	47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/CLTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 1 1/4	GE 1 1/2	GE 2	GE 2 1/2	GE 3	GE 3 1/2	GE 4	GE 4 1/2	GE 5	GE 5 1/2	GE 6	GE 6 1/2	GE 7	GE 7 1/2	GE 8	GE 8 1/2
NO CEIL	20.1	27.2	27.6	27.7	28.0	28.0	28.1	28.1	28.3	28.5	28.6	28.6	28.6	28.6	28.6	28.6	28.6
GE 20000	21.0	28.3	28.7	28.8	29.0	29.0	29.2	29.2	29.5	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8
GE 18000	21.1	28.4	28.8	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 16000	21.1	28.4	28.8	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 14000	21.1	28.4	28.8	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 12000	22.3	29.6	30.2	30.3	30.5	30.5	30.8	30.9	31.1	31.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4
GE 10000	22.4	29.9	30.3	30.4	30.6	30.6	30.9	31.0	31.2	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5
GE 9000	22.5	30.0	30.4	30.5	30.6	30.6	31.0	31.1	31.3	31.5	31.6	31.6	31.6	31.6	31.6	31.6	31.6
GE 8000	22.9	30.9	31.3	31.4	31.6	31.6	31.8	31.9	32.2	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE 7000	23.3	31.7	32.3	32.4	32.6	32.6	32.8	32.9	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4
GE 6000	23.4	32.0	32.6	32.7	32.9	32.9	33.1	33.2	33.4	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8
GE 5000	24.6	33.4	34.1	34.3	34.5	34.5	34.7	34.8	35.1	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4
GE 4500	25.4	34.5	35.2	35.4	35.6	35.6	35.8	35.9	36.1	36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.5
GE 4000	25.9	35.5	36.1	36.3	36.6	36.6	36.8	36.9	37.1	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 3500	26.7	37.2	37.8	38.1	38.3	38.3	38.5	38.6	38.8	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 3000	28.2	39.7	40.4	40.6	40.9	41.0	41.2	41.3	41.5	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 2500	34.0	48.5	49.6	50.3	51.1	51.2	51.4	51.5	51.7	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 2000	39.1	58.9	61.0	62.6	63.9	64.3	65.2	65.3	65.5	65.7	65.9	65.9	66.1	66.1	66.2	66.2	66.2
GE 1800	40.4	62.2	64.3	66.1	67.7	68.3	69.4	69.5	69.7	69.9	70.2	70.2	70.4	70.4	70.5	70.5	70.5
GE 1500	43.7	68.0	70.2	72.6	75.1	75.7	77.4	77.7	78.0	78.3	78.6	78.6	78.9	78.9	79.0	79.0	79.0
GE 1200	44.9	71.0	73.8	76.2	79.0	79.7	81.7	82.3	82.7	83.0	83.5	83.5	84.0	84.0	84.1	84.1	84.1
GE 1000	45.3	72.6	75.7	78.2	81.5	82.3	84.5	85.2	85.6	86.1	86.8	86.8	87.3	87.3	87.4	87.4	87.4
GE 900	45.7	73.7	76.9	79.4	82.6	83.5	85.8	86.9	87.4	88.0	88.7	88.7	89.2	89.2	89.4	89.4	89.4
GE 800	45.7	74.5	77.7	80.3	83.9	84.9	87.3	88.5	89.0	90.1	90.9	90.9	91.4	91.4	91.5	91.5	91.5
GE 700	45.8	74.8	78.1	80.6	84.2	85.3	87.6	89.0	89.6	90.6	91.4	91.4	91.9	91.9	92.0	92.0	92.0
GE 600	46.0	75.2	78.4	81.2	84.9	86.3	88.9	90.6	91.2	92.6	94.0	94.0	94.5	94.6	94.7	94.7	94.7
GE 500	46.0	75.4	78.6	81.5	85.4	86.8	89.4	91.3	91.8	93.9	95.9	95.9	96.5	96.5	96.7	96.7	96.7
GE 400	46.0	75.4	78.6	81.5	85.5	86.9	89.6	91.7	92.3	94.4	96.6	96.7	97.2	97.2	97.5	97.7	97.7
GE 300	46.0	75.4	78.6	81.5	85.7	87.1	89.9	92.0	92.6	94.7	97.0	97.1	97.7	97.7	98.1	98.3	98.3
GE 200	46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.2	99.7	99.7	99.7
GE 100	46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.4	99.8	99.8	100.0
GE 0	46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.4	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 730

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/4	GE 1 1/2	GE 2	GE 2 1/2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13
NO CEIL	17.7	24.0	24.6	24.6	25.1	25.3	25.4	25.5	25.7	25.8	26.0	26.0	26.0	26.0	26.1	26.1
GE 20000	18.6	25.1	25.7	25.9	26.1	26.3	26.5	26.7	27.0	27.0	27.2	27.2	27.2	27.2	27.3	27.3
GE 18000	18.9	25.4	26.0	26.2	26.5	26.7	26.8	27.0	27.2	27.3	27.5	27.5	27.5	27.5	27.6	27.6
GE 16000	18.9	25.4	26.0	26.2	26.5	26.7	26.8	27.0	27.2	27.3	27.5	27.5	27.5	27.5	27.6	27.6
GE 14000	19.0	25.5	26.1	26.3	26.6	26.8	26.9	27.1	27.3	27.4	27.6	27.6	27.6	27.6	27.7	27.7
GE 12000	19.4	25.8	26.5	26.7	26.9	27.1	27.2	27.4	27.6	27.7	28.0	28.0	28.0	28.0	28.1	28.1
GE 10000	20.0	26.5	27.1	27.3	27.5	27.7	27.8	28.2	28.4	28.5	28.7	28.7	28.7	28.7	28.8	28.8
GE 9000	20.2	26.7	27.3	27.5	27.7	28.0	28.1	28.4	28.6	28.7	28.9	28.9	28.9	28.9	29.0	29.0
GE 8000	21.4	28.8	29.5	29.7	29.9	30.1	30.2	30.5	30.8	30.9	31.1	31.1	31.1	31.1	31.2	31.2
GE 7000	21.9	29.6	30.4	30.6	30.9	31.1	31.2	31.5	31.7	31.8	32.0	32.0	32.0	32.0	32.2	32.2
GE 6000	22.2	30.1	30.8	31.0	31.2	31.4	31.5	31.8	32.0	32.2	32.4	32.4	32.4	32.4	32.5	32.5
GE 5000	22.8	31.2	32.0	32.3	32.6	32.8	32.9	33.2	33.4	33.5	33.8	33.8	33.8	33.8	33.9	33.9
GE 4500	23.3	32.3	33.2	33.4	33.8	34.0	34.1	34.4	34.6	34.7	34.9	34.9	34.9	34.9	35.1	35.1
GE 4000	23.4	32.4	33.8	34.0	34.3	34.5	34.6	35.1	35.3	35.4	35.6	35.6	35.6	35.6	35.7	35.7
GE 3500	24.9	35.1	36.6	37.1	37.4	37.6	37.7	38.2	38.4	38.5	38.7	38.7	38.7	38.7	38.8	38.8
GE 3000	26.3	37.2	38.6	39.6	39.9	40.2	40.3	40.8	41.0	41.1	41.3	41.3	41.3	41.3	41.4	41.4
GE 2500	30.6	44.4	46.5	47.7	48.3	48.6	48.8	49.6	49.8	49.9	50.3	50.3	50.3	50.3	50.4	50.4
GE 2000	35.2	52.2	54.7	56.6	57.8	58.8	59.7	60.4	60.8	61.0	61.5	61.5	61.5	61.5	61.6	61.6
GE 1800	37.2	56.2	59.1	61.3	62.9	63.9	65.1	66.2	66.6	67.0	67.5	67.5	67.5	67.5	67.6	67.6
GE 1500	39.8	61.5	65.2	67.4	69.2	70.9	72.5	73.6	74.1	74.8	75.8	75.8	75.9	75.9	76.0	76.0
GE 1200	42.2	66.5	70.4	73.0	75.4	77.2	79.0	80.3	80.9	81.6	82.7	82.7	82.8	82.8	82.9	82.9
GE 1000	42.9	68.9	73.2	76.0	78.6	80.6	82.7	84.0	84.7	85.2	87.0	87.0	87.1	87.1	87.2	87.2
GE 900	43.2	70.4	74.8	77.7	80.3	82.4	84.4	85.7	86.5	87.6	88.8	88.8	88.9	88.9	89.0	89.0
GE 800	43.4	71.0	75.6	78.6	81.4	83.5	85.6	86.9	87.6	89.0	90.2	90.2	90.3	90.3	90.4	90.4
GE 700	43.4	71.1	75.7	78.8	81.6	83.9	85.9	87.4	88.2	89.7	91.1	91.2	91.3	91.4	91.5	91.5
GE 600	43.5	71.4	76.2	79.4	82.2	84.4	86.6	88.1	88.9	90.5	92.3	92.4	92.5	92.6	92.7	92.7
GE 500	43.5	71.4	76.2	79.5	82.5	84.7	87.0	88.6	89.7	91.4	94.0	94.5	94.6	94.8	94.9	94.9
GE 400	43.5	71.5	76.3	79.6	82.7	84.9	87.4	89.1	90.2	91.9	94.5	95.1	95.2	95.8	95.9	95.9
GE 300	43.5	71.5	76.3	79.6	82.8	85.3	87.7	89.7	90.8	92.6	95.3	95.8	95.9	96.6	96.9	97.1
GE 200	43.5	71.5	76.3	79.6	82.8	85.4	88.0	89.9	91.1	93.1	96.2	96.9	97.3	98.1	98.5	98.9
GE 100	43.5	71.5	76.3	79.6	82.8	85.4	88.0	90.0	91.2	93.4	96.8	97.4	98.2	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726340 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87
MONTH: JAN HOURS (LST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	5L 10	6F 6	5GE 5	4GF 4	3GE 3	2 1/2GF 2 1/2	2GE 2	1 1/2GF 1 1/2	1 1/4GE 1 1/4	1GE 1	3/4GE 3/4	5/8GE 5/8	1/2GF 1/2	5/16GE 5/16	1/4GF 1/4	0GE 0	
NO CEIL	1	21.2	26.2	27.1	27.5	27.8	28.3	28.5	29.0	29.1	29.8	29.9	29.9	30.0	30.0	30.0	30.0	
GE 20000	22.5	28.0	28.6	29.2	29.6	30.2	30.4	31.0	31.1	31.7	31.8	31.8	31.8	31.9	31.9	31.9	31.9	
GE 18000	22.8	28.6	29.5	29.9	30.2	30.9	31.1	31.6	31.7	32.4	32.5	32.5	32.5	32.6	32.6	32.6	32.6	
GE 16000	22.8	28.6	29.5	29.9	30.2	30.9	31.1	31.6	31.7	32.4	32.5	32.5	32.5	32.6	32.6	32.6	32.6	
GE 14000	23.1	28.9	29.6	30.2	30.5	31.2	31.4	31.9	32.0	32.7	32.8	32.8	32.8	32.9	32.9	32.9	32.9	
GE 12000	23.3	29.1	30.0	30.4	30.6	31.4	31.6	32.2	32.3	32.9	33.0	33.0	33.0	33.1	33.1	33.1	33.1	
GE 10000	24.3	30.4	31.4	31.6	32.2	32.8	33.0	33.7	33.8	34.4	34.5	34.5	34.5	34.6	34.6	34.6	34.6	
GE 9000	24.3	30.4	31.4	31.6	32.2	32.8	33.0	33.7	33.8	34.4	34.5	34.5	34.5	34.6	34.6	34.6	34.6	
GE 8000	25.1	32.3	33.3	33.4	34.2	35.1	35.3	36.0	36.1	36.8	36.9	36.9	36.9	37.0	37.0	37.0	37.0	
GE 7000	25.9	33.1	34.3	34.6	35.2	36.0	36.2	37.0	37.1	37.7	37.8	37.8	37.8	38.0	38.0	38.0	38.0	
GE 6000	26.1	33.5	34.7	35.3	35.6	36.5	36.7	37.4	37.5	38.2	38.3	38.3	38.3	38.4	38.4	38.4	38.4	
GE 5000	26.9	34.8	36.0	36.6	36.9	37.7	38.0	38.7	38.8	39.5	39.6	39.6	39.6	39.7	39.7	39.7	39.7	
GE 4500	27.7	36.6	37.7	38.4	38.7	39.6	39.8	40.5	40.6	41.3	41.4	41.4	41.4	41.5	41.5	41.5	41.5	
GE 4000	27.7	36.6	37.7	38.4	38.7	39.6	39.8	40.5	40.6	41.3	41.4	41.4	41.4	41.5	41.5	41.5	41.5	
GE 3500	29.2	38.5	39.7	40.5	40.9	41.7	42.0	42.9	43.0	43.7	43.8	43.8	43.8	43.9	43.9	43.9	43.9	
GE 3000	30.2	41.1	42.6	43.8	44.1	44.9	45.2	46.1	46.3	47.0	47.1	47.1	47.1	47.2	47.2	47.2	47.2	
GE 2500	31.9	46.0	48.0	49.4	49.9	50.8	51.3	52.5	52.8	53.4	53.5	53.5	53.5	53.7	53.7	53.7	53.7	
GE 2000	34.9	52.3	54.7	57.2	58.5	61.0	61.1	62.4	62.9	63.8	64.0	64.0	64.0	64.3	64.3	64.3	64.3	
GE 1800	36.5	54.9	57.8	60.4	62.2	63.9	65.1	66.8	67.3	68.3	68.6	68.6	68.6	68.9	68.9	68.9	68.9	
GE 1500	38.4	58.0	60.9	63.8	66.4	68.6	70.1	72.0	72.6	73.8	74.1	74.1	74.1	74.5	74.5	74.5	74.5	
GE 1200	40.0	60.9	64.1	67.4	70.4	73.0	75.2	77.6	78.2	79.7	80.1	80.1	80.1	80.5	80.5	80.5	80.5	
GE 1000	41.0	62.4	65.8	69.9	73.2	76.2	78.6	81.6	82.4	84.2	85.1	85.2	85.2	85.7	85.7	85.7	85.7	
GE 900	41.4	63.1	67.2	71.3	74.9	78.0	80.3	83.2	84.1	85.9	86.9	87.0	87.0	87.5	87.5	87.5	87.5	
GE 800	41.4	63.3	67.8	71.9	75.7	78.9	81.3	84.5	85.3	87.2	88.4	88.7	88.7	89.4	89.4	89.4	89.4	
GE 700	41.4	63.5	68.1	72.2	76.0	79.5	82.0	85.7	86.6	88.6	89.9	90.3	91.0	91.0	91.0	91.0	91.0	
GE 600	41.4	63.5	68.1	72.2	76.1	79.7	82.6	86.5	87.6	89.9	91.5	91.9	92.6	92.6	92.6	92.6	92.6	
GE 500	41.4	63.5	68.1	72.2	76.2	79.9	83.1	87.1	88.3	91.0	92.8	93.4	94.5	94.5	94.5	94.5	94.5	
GE 400	41.4	63.5	68.1	72.2	76.2	80.0	83.2	87.3	88.5	91.6	94.2	94.8	96.0	96.0	96.0	96.0	96.0	
GE 300	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.2	95.5	96.2	97.6	97.6	97.6	97.6	97.6	
GE 200	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.4	96.0	96.8	98.5	98.8	98.8	98.8	98.8	
GE 100	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.4	96.2	97.1	98.8	99.2	99.4	99.4	99.9	
GE 0	41.4	63.7	68.2	72.3	76.3	80.1	83.4	87.8	89.0	92.5	96.3	97.2	98.9	99.4	99.5	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17
NO CLIL	27.3	27.6	28.6	28.6	29.1	29.4	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8
GE 20000	23.7	29.9	30.9	31.1	31.5	31.7	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3
GE 18000	24.2	30.8	31.7	31.9	32.4	32.6	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1
GE 16000	24.2	30.8	31.7	31.9	32.4	32.6	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1
GE 14000	24.3	30.9	31.8	32.0	32.5	32.7	33.1	33.1	33.1	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2
GE 12000	24.8	31.6	32.6	32.8	33.2	33.4	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0
GE 10000	25.5	32.6	33.5	33.8	34.2	34.4	34.9	34.9	34.9	34.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 9000	25.5	32.6	33.5	33.8	34.2	34.4	34.9	34.9	34.9	34.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 8000	26.5	34.3	35.3	35.6	36.0	36.7	37.2	37.2	37.2	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 7000	26.9	34.9	35.9	36.2	36.7	37.3	37.8	38.0	38.0	38.0	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 6000	27.3	35.6	36.9	37.2	37.6	38.3	38.8	38.9	38.9	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 5000	27.7	36.3	37.6	38.0	38.4	39.0	39.6	39.7	39.7	39.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0
GE 4500	28.5	37.3	38.6	38.9	39.4	40.0	40.5	40.6	40.6	40.6	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 4000	28.8	37.7	39.1	39.6	40.0	40.6	41.2	41.3	41.4	41.4	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 3500	29.8	39.4	40.8	41.3	41.7	42.4	42.9	43.0	43.1	43.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 3000	31.2	42.5	44.1	44.6	45.1	45.7	46.2	46.3	46.5	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 2500	34.3	49.0	51.4	52.3	52.7	53.4	54.1	54.2	54.3	54.3	54.6	54.6	54.7	54.7	54.7	54.7	54.7
GE 2000	37.6	56.7	59.9	61.6	62.5	63.5	64.6	64.9	65.3	65.7	66.0	66.0	66.3	66.3	66.3	66.3	66.3
GE 1800	40.2	60.4	64.5	66.6	67.4	68.7	70.2	70.9	71.2	71.6	71.9	71.9	72.7	72.7	72.7	72.7	72.7
GE 1500	42.2	63.9	68.3	70.6	72.3	74.2	76.1	77.4	77.7	78.4	78.9	79.0	79.9	79.9	79.9	79.9	79.9
GE 1200	43.1	65.8	70.6	73.5	75.9	78.0	80.1	81.7	82.2	83.1	83.9	84.0	84.9	84.9	84.9	84.9	84.9
GE 1000	43.3	67.5	71.9	76.0	78.6	81.2	83.7	85.5	85.9	87.4	88.5	88.8	89.9	89.9	90.0	90.0	90.0
GE 900	43.3	67.8	72.2	76.3	79.0	81.6	84.5	86.5	86.9	88.6	89.9	90.2	91.4	91.5	91.6	91.6	91.6
GE 800	43.3	67.8	73.2	76.3	79.1	81.8	85.3	87.3	87.8	89.7	91.0	91.4	92.6	92.7	92.8	92.8	92.8
GE 700	43.3	68.0	73.3	76.5	79.7	82.4	86.1	88.4	89.0	91.1	92.5	93.1	94.3	94.4	94.5	94.5	94.5
GE 600	43.3	68.0	73.3	76.5	79.9	82.7	86.6	88.8	89.5	91.7	93.2	94.0	95.2	95.3	95.4	95.4	95.4
GE 500	43.3	68.0	73.3	76.5	79.9	82.7	86.7	89.1	89.8	92.2	93.8	94.5	95.8	95.9	96.0	96.0	96.0
GE 400	43.3	68.0	73.3	76.5	79.9	82.7	86.7	89.7	90.3	92.9	94.9	95.7	97.0	97.2	97.4	97.5	97.5
GE 300	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.7	90.5	93.1	95.5	96.2	97.5	98.0	98.4	98.5	98.5
GE 200	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.1	98.7	99.1	99.1
GE 100	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.1	98.8	99.6	99.6
GE 0	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.2	98.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET		GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	1	24.3	30.4	31.0	31.0	31.2	31.3	31.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	
GE 20000	1	26.6	34.1	34.9	35.1	35.3	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	
GE 18000	1	27.1	34.6	35.5	35.6	35.8	35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	
GE 16000	1	27.1	34.6	35.5	35.6	35.8	35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	
GE 14000	1	27.1	34.7	35.6	35.7	35.9	36.0	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
GE 12000	1	27.3	35.4	36.2	36.3	36.6	36.7	36.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	
GE 10000	1	28.4	36.7	37.5	37.6	37.6	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
GE 9000	1	28.5	36.6	37.6	37.7	38.0	38.1	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	
GE 8000	1	29.6	38.6	39.5	39.6	40.3	40.4	40.5	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	
GE 7000	1	30.4	39.6	40.4	40.6	41.3	41.4	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
GE 6000	1	30.5	39.8	40.9	41.2	41.8	41.9	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	
GE 5000	1	31.1	40.6	41.9	42.3	42.9	43.0	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	
GE 4500	1	31.6	41.9	42.1	43.4	44.1	44.2	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	
GE 4000	1	31.9	42.4	43.5	43.9	44.5	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	
GE 3500	1	32.7	43.8	45.4	45.7	46.3	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	
GE 3000	1	35.5	47.4	49.1	49.5	50.1	50.3	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	
GE 2500	1	38.8	53.6	55.8	56.6	57.4	57.7	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	
GE 2000	1	44.9	64.0	66.5	68.5	70.4	70.9	71.3	71.7	72.0	72.3	72.4	72.5	72.5	72.5	72.5	72.5	
GE 1800	1	47.3	67.3	70.0	72.4	74.7	75.2	75.8	76.6	76.9	77.2	77.3	77.4	77.4	77.4	77.4	77.4	
GE 1500	1	49.6	71.1	74.3	77.1	79.9	80.6	81.7	82.8	83.4	84.2	84.4	84.5	84.5	84.5	84.5	84.5	
GE 1200	1	50.4	73.0	76.6	79.5	82.7	83.7	85.3	86.5	87.1	88.1	88.3	88.5	88.7	88.7	88.7	88.7	
GE 1000	1	50.6	73.8	77.4	80.3	84.2	85.4	87.2	88.7	89.4	90.8	91.4	91.6	91.8	91.8	91.8	91.9	
GE 900	1	50.6	73.8	77.4	80.4	84.4	85.9	87.7	89.2	89.9	91.3	91.9	92.2	92.4	92.4	92.4	92.5	
GE 800	1	50.6	73.8	77.4	80.5	84.6	86.2	88.4	89.9	90.5	91.9	93.0	93.2	93.5	93.7	93.7	93.8	
GE 700	1	50.6	73.8	77.5	80.6	84.9	86.7	88.9	90.6	91.3	92.8	94.0	94.2	94.6	94.8	94.8	94.9	
GE 600	1	50.6	73.8	77.5	80.9	85.2	86.9	89.1	90.9	91.7	93.8	95.2	95.5	95.9	96.1	96.1	96.2	
GE 500	1	50.6	73.8	77.5	80.9	85.2	86.9	89.4	91.1	91.9	94.2	95.7	96.1	96.8	97.0	97.0	97.1	
GE 400	1	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.7	92.7	95.2	96.9	97.4	98.1	98.3	98.4	98.5	
GE 300	1	50.6	73.8	77.5	80.9	85.2	86.9	89.9	91.8	92.8	95.3	97.0	97.6	98.3	98.5	98.7	98.8	
GE 200	1	50.6	73.8	77.5	80.9	85.2	86.9	89.9	91.8	92.8	95.3	97.0	97.7	98.5	98.8	99.0	99.8	
GE 100	1	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.6	92.8	95.3	97.0	97.7	98.5	98.8	99.0	100.0	
GE 0	1	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.8	92.8	95.3	97.0	97.7	98.5	98.8	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS (LST): 1900-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	23.2	28.4	28.9	29.0	29.1	29.5	29.6	29.6	29.6	29.6	29.7	29.7	29.8	29.8	29.8	29.8
GE 20000	24.7	30.8	31.3	31.4	31.5	31.8	31.9	31.9	31.9	31.9	32.0	32.0	32.2	32.2	32.2	32.2
GE 18000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
GE 16000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
GE 14000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
GE 12000	25.4	31.4	31.9	32.0	32.2	32.5	32.6	32.6	32.6	32.6	32.7	32.7	32.8	32.8	32.8	32.8
GE 10000	26.0	32.0	32.6	32.7	32.9	33.1	33.2	33.2	33.2	33.2	33.3	33.3	33.4	33.4	33.4	33.4
GE 9000	26.2	32.4	32.9	33.0	33.1	33.4	33.5	33.5	33.5	33.5	33.7	33.7	33.8	33.8	33.8	33.8
GE 8000	26.9	33.7	34.4	34.5	34.9	35.3	35.4	35.4	35.4	35.4	35.5	35.5	35.6	35.6	35.6	35.6
GE 7000	27.6	34.4	35.2	35.3	35.7	36.0	36.1	36.1	36.1	36.1	36.2	36.2	36.3	36.3	36.3	36.3
GE 6000	27.6	34.6	35.4	35.5	35.9	36.2	36.5	36.6	36.6	36.6	36.7	36.7	36.8	36.8	36.8	36.8
GE 5000	28.9	36.3	37.1	37.2	37.7	38.1	38.3	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.6
GE 4500	30.9	38.8	39.7	39.8	40.3	40.6	40.9	41.0	41.0	41.0	41.1	41.1	41.2	41.2	41.2	41.2
GE 4000	31.1	39.1	40.0	40.1	40.6	41.0	41.2	41.3	41.3	41.3	41.4	41.4	41.5	41.5	41.5	41.5
GE 3500	32.6	41.1	42.5	42.6	43.1	43.4	43.7	43.8	43.8	43.8	43.9	43.9	44.0	44.0	44.0	44.0
GE 3000	35.3	45.2	46.8	46.9	47.4	47.7	48.0	48.1	48.1	48.1	48.2	48.2	48.3	48.3	48.3	48.3
GE 2500	41.0	54.5	56.6	57.5	58.5	58.9	59.2	59.5	59.5	59.5	59.6	59.6	59.7	59.7	59.7	59.7
GE 2000	46.2	64.3	67.3	68.1	70.3	71.0	72.0	72.9	72.9	73.0	73.1	73.1	73.2	73.2	73.2	73.2
GE 1800	46.2	67.2	70.4	72.2	73.9	74.7	75.4	77.0	77.2	77.4	77.5	77.5	77.6	77.6	77.6	77.6
GE 1500	50.5	70.9	74.7	76.9	78.6	79.6	81.2	82.9	83.1	83.5	84.0	84.0	84.1	84.1	84.1	84.1
GE 1200	51.7	73.0	77.3	79.7	81.8	83.0	84.5	86.3	86.6	87.3	87.7	87.7	87.8	87.8	87.8	87.8
GE 1000	51.8	74.0	78.6	81.1	83.9	85.1	87.0	89.0	89.4	90.6	91.5	91.7	91.9	91.9	92.2	92.2
GE 900	51.8	74.0	78.6	81.1	83.6	85.3	87.3	89.5	89.9	91.3	92.5	92.7	92.9	92.9	93.1	93.1
GE 800	51.8	74.3	78.9	81.0	84.3	85.9	88.1	90.5	90.9	92.4	93.7	93.9	94.1	94.1	94.3	94.3
GE 700	51.8	74.3	78.9	81.7	84.5	86.3	88.5	91.4	91.7	93.2	94.7	94.9	95.2	95.2	95.4	95.4
GE 600	51.8	74.3	78.9	81.7	84.5	86.3	88.5	91.4	91.8	93.3	94.9	95.4	95.7	95.7	95.9	95.9
GE 500	51.8	74.3	78.9	81.7	84.5	86.5	88.6	91.5	92.0	94.0	95.6	96.0	96.6	96.6	96.9	96.9
GE 400	51.8	74.3	78.9	81.7	84.6	86.8	89.0	92.2	92.8	94.7	96.5	96.9	97.4	97.4	98.0	98.0
GE 300	51.8	74.3	78.9	81.7	84.7	86.9	89.1	92.3	92.9	94.9	96.8	97.2	98.3	98.3	98.8	98.8
GE 200	51.8	74.3	78.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0
GE 100	51.8	74.3	78.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0
GE 0	51.8	74.3	78.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 2100-2300

CEILING		VISIBILITY IN STATUTE MILES																	
IN FEET		1 10	6 6	5 5	4 4	3 3	2 2	1 1/2 1 1/2	1 1	1 1/2 1 1/2	1 1/4 1 1/4	1 1	3/4 3/4	5/8 5/8	1/2 1/2	5/16 5/16	1/4 1/4	0 0	
NO CEIL	19.8	28.1	28.7	29.5	29.1	29.1	29.2	29.2	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.8	
GE 20000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 18000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 16000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 14000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 12000	22.7	30.6	31.4	31.7	31.5	31.9	32.0	32.0	32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.6	
GE 10000	22.8	31.4	32.2	32.5	32.6	32.7	32.8	32.8	32.8	32.9	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.3	
GE 9000	22.8	31.5	32.3	32.7	32.6	32.9	33.0	33.0	33.0	33.1	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.5	
GE 8000	23.8	33.0	34.0	34.4	34.5	34.6	34.7	34.7	34.7	34.8	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.3	
GE 7000	24.4	33.7	34.6	35.1	35.2	35.3	35.4	35.5	35.5	35.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.0	
GE 6000	24.7	34.3	35.3	35.7	35.8	35.9	36.0	36.1	36.1	36.2	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.7	
GE 5000	25.2	35.3	36.5	36.9	37.0	37.1	37.2	37.3	37.3	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.8	
GE 4500	26.7	37.0	38.2	38.6	38.7	38.9	39.1	39.2	39.2	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.8	
GE 4000	27.0	37.4	38.6	39.0	39.1	39.4	39.6	39.7	39.7	39.8	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.2	
GE 3500	28.7	39.6	41.1	41.7	41.8	42.0	42.3	42.4	42.4	42.5	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.9	
GE 3000	30.4	41.7	43.2	44.0	44.3	44.5	44.7	44.8	44.9	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	
GE 2500	36.6	41.5	54.2	55.5	56.6	57.0	57.7	57.3	57.7	57.8	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.3	
GE 2000	40.4	58.9	62.0	64.4	66.7	67.4	68.9	69.1	69.8	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	
GE 1800	41.8	61.9	65.4	68.0	70.2	71.1	72.7	72.9	73.5	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	
GE 1500	45.7	68.5	72.3	75.5	78.7	79.7	81.6	82.0	83.5	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	
GE 1200	46.2	70.2	74.4	77.7	81.4	82.5	84.5	85.9	86.7	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.7	
GE 1000	46.7	71.4	76.0	79.7	83.7	85.5	87.5	89.4	89.7	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	
GE 900	46.7	71.4	76.0	79.7	83.9	85.8	87.8	89.2	90.0	91.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.9	
GE 800	46.9	71.9	76.7	80.5	84.8	86.8	88.9	90.3	91.1	92.9	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.0	
GE 700	46.9	71.9	76.7	80.5	85.1	87.0	89.1	90.6	91.4	93.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.7	
GE 600	46.9	71.9	76.7	80.6	85.1	87.1	89.4	91.0	91.8	93.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.6	
GE 500	46.9	71.9	77.0	81.0	85.4	87.5	89.8	91.5	92.4	94.5	95.9	96.0	96.7	96.8	97.4	97.2	97.3	97.4	
GE 400	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.2	93.1	95.3	96.7	96.8	97.4	98.0	98.0	98.0	98.0	98.2	
GE 300	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.3	98.3	98.9	99.0	99.0	99.0	99.1	
GE 200	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.3	98.4	99.0	99.2	99.2	99.2	99.6	
GE 100	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.4	98.5	99.4	99.6	99.6	99.6	99.9	
GE 0	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.4	98.5	99.5	99.5	99.7	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72634 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS (LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	21.4	27.9	28.5	28.7	28.9	29.0	29.2	29.2	29.3	29.5	29.6	29.6	29.6	29.6	29.6	29.7
GE 20000	22.8	29.8	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.6	31.7	31.7	31.7	31.7	31.7	31.8
GE 18000	23.0	30.2	30.8	31.0	31.2	31.4	31.6	31.7	31.8	31.9	32.0	32.0	32.1	32.1	32.1	32.1
GE 16000	23.0	30.2	30.8	31.0	31.2	31.4	31.6	31.7	31.8	31.9	32.0	32.0	32.1	32.1	32.1	32.1
GE 14000	23.1	30.2	30.9	31.1	31.3	31.5	31.7	31.8	31.8	32.0	32.1	32.1	32.2	32.2	32.2	32.2
GE 12000	23.6	30.9	31.6	31.8	32.0	32.2	32.3	32.4	32.5	32.7	32.8	32.8	32.8	32.8	32.8	32.8
GE 10000	24.3	31.7	32.4	32.6	32.8	33.0	33.1	33.3	33.4	33.5	33.7	33.7	33.7	33.7	33.7	33.7
GE 9000	24.4	31.8	32.5	32.7	32.9	33.1	33.3	33.4	33.5	33.7	33.8	33.8	33.8	33.8	33.8	33.9
GE 8000	25.2	33.3	34.1	34.4	34.7	35.0	35.1	35.3	35.4	35.5	35.7	35.7	35.7	35.7	35.7	35.7
GE 7000	25.8	34.1	34.9	35.2	35.5	35.8	35.9	36.1	36.2	36.4	36.5	36.5	36.5	36.5	36.5	36.6
GE 6000	26.0	34.5	35.4	35.6	35.9	36.2	36.4	36.6	36.7	36.8	37.0	37.0	37.0	37.0	37.0	37.0
GE 5000	26.8	35.6	36.6	36.9	37.2	37.5	37.7	37.9	38.0	38.1	38.3	38.3	38.3	38.3	38.3	38.3
GE 4500	27.7	37.0	38.0	38.4	38.7	39.0	39.2	39.4	39.5	39.6	39.8	39.8	39.8	39.8	39.8	39.8
GE 4000	28.0	37.4	38.5	38.9	39.2	39.5	39.7	39.9	40.0	40.2	40.3	40.3	40.3	40.3	40.4	40.4
GE 3500	29.2	39.3	40.6	41.1	41.5	41.7	42.7	42.2	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6
GE 3000	31.0	42.3	43.7	44.3	44.7	45.0	45.2	45.5	45.6	45.7	45.9	45.9	45.9	45.9	45.9	45.9
GE 2500	35.5	49.9	51.9	52.5	53.7	54.1	54.4	54.8	55.0	55.1	55.3	55.3	55.3	55.3	55.3	55.4
GE 2000	40.0	58.6	61.3	63.1	64.7	65.5	66.5	67.0	67.3	67.6	67.9	67.9	68.0	68.0	68.1	68.1
GE 1800	41.9	61.9	64.9	67.1	69.9	69.7	70.9	71.7	72.0	72.4	72.7	72.7	72.9	72.9	72.9	72.9
GE 1500	44.4	66.5	69.9	72.3	74.8	76.0	77.6	78.8	79.2	79.8	80.2	80.3	80.5	80.5	80.6	80.6
GE 1200	45.7	69.0	72.8	75.5	78.4	79.8	81.6	83.0	83.5	84.4	84.8	84.9	85.2	85.2	85.2	85.3
GE 1000	46.1	70.5	74.6	77.6	80.8	82.5	84.6	86.2	86.8	88.1	88.8	89.0	89.3	89.3	89.4	89.5
GE 900	46.2	71.0	75.2	78.2	81.6	83.4	85.6	87.3	87.9	89.3	90.1	90.2	90.6	90.7	90.8	90.8
GE 800	46.3	71.3	75.6	78.7	82.3	84.2	86.5	88.4	89.0	90.5	91.5	91.6	92.1	92.1	92.2	92.2
GE 700	46.3	71.4	75.8	79.0	82.6	84.6	87.0	89.1	89.8	91.4	92.5	92.7	93.1	93.3	93.4	93.4
GE 600	46.4	71.5	75.9	79.2	82.9	85.0	87.6	89.6	90.6	92.4	93.8	94.0	94.5	94.7	94.7	94.8
GE 500	46.4	71.6	76.0	79.5	83.1	85.2	87.9	90.2	91.0	93.2	94.9	95.3	96.0	96.2	96.3	96.3
GE 400	46.4	71.6	76.0	79.4	83.2	85.5	88.2	90.7	91.6	93.9	95.9	96.3	97.0	97.3	97.5	97.5
GE 300	46.4	71.6	76.0	79.4	83.3	85.6	88.4	91.0	91.9	94.2	96.5	96.5	97.7	98.1	98.4	98.4
GE 200	46.4	71.6	76.0	79.4	83.3	85.6	88.5	91.1	92.0	94.4	96.8	97.3	98.3	98.8	99.1	99.5
GE 100	46.4	71.6	76.0	79.4	83.3	85.6	88.5	91.1	92.0	94.5	96.9	97.4	98.5	99.0	99.4	99.9
GE 0	46.4	71.6	76.1	79.4	83.3	85.6	88.5	91.1	92.0	94.5	96.9	97.4	98.5	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: FEB

FOURSIDIST: 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	29.0	77.4	38.5	38.7	38.9	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 20000	31.2	40.5	41.6	42.1	42.3	42.4	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
GE 18000	31.2	40.8	42.1	42.3	42.6	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 16000	31.2	40.8	42.1	42.3	42.6	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 14000	31.2	40.8	42.1	42.3	42.6	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 12000	31.7	41.8	42.4	43.7	44.0	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 10000	32.2	42.7	44.2	44.6	44.8	44.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
GE 9000	32.3	43.0	44.6	44.9	45.2	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 8000	33.6	45.0	46.6	46.4	47.2	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE 7000	38.0	45.6	47.2	47.5	47.8	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 6000	38.4	46.0	47.5	47.9	48.3	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 5000	35.3	47.0	48.7	49.1	49.6	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 4500	37.2	49.5	51.4	51.8	52.4	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 4000	37.2	49.8	51.7	52.0	52.6	52.8	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 3500	38.5	51.5	53.4	53.8	54.4	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 3000	40.4	54.8	57.0	57.4	58.0	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 2500	43.0	60.6	63.0	63.7	64.8	65.2	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 2000	46.2	67.1	69.7	70.0	72.0	72.7	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 1800	48.1	70.2	73.2	74.6	75.8	76.7	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 1500	48.8	72.8	76.0	77.9	79.8	80.7	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 1200	49.4	75.1	78.5	80.4	82.4	83.5	84.9	85.0	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1000	49.4	75.4	79.0	81.6	83.9	85.1	87.0	87.5	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 900	49.5	75.7	79.2	81.9	84.4	85.6	87.5	87.9	88.3	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 800	49.5	75.8	79.4	82.2	84.6	86.1	87.9	88.4	88.6	89.4	89.5	89.5	89.5	89.5	89.5	89.5
GE 700	49.5	76.0	79.6	82.7	85.7	87.1	89.1	89.7	90.2	90.9	91.0	91.0	91.0	91.0	91.0	91.0
GE 600	49.6	76.1	79.9	83.0	86.1	87.5	89.6	90.2	90.7	91.6	91.7	91.7	91.7	91.7	91.7	91.7
GE 500	49.9	76.5	80.3	83.3	86.4	87.8	90.3	90.9	91.4	92.7	93.3	93.3	93.3	93.3	93.3	93.3
GE 400	49.9	76.5	80.3	83.3	86.4	87.8	90.5	91.1	91.6	92.9	94.0	94.0	94.1	94.1	94.1	94.1
GE 300	49.9	76.5	80.3	83.3	86.4	87.8	91.1	91.8	92.3	93.6	94.8	94.8	94.9	94.9	94.9	94.9
GE 200	49.9	76.5	80.3	83.3	86.4	87.8	91.7	92.4	92.9	94.4	96.0	96.0	96.7	96.7	96.9	97.2
GE 100	49.9	76.5	80.3	83.3	86.4	88.1	92.0	92.7	93.1	94.7	96.3	96.3	97.8	97.8	98.2	98.6
GE 0	49.9	76.5	80.3	83.3	86.4	88.1	92.0	92.7	93.1	94.7	96.5	96.5	97.9	97.9	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	24.3	31.2	31.6	31.8	32.0	32.4	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
GE 20000	25.7	33.6	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 18000	25.7	33.0	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 16000	25.7	33.0	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 14000	25.7	33.1	33.8	34.4	34.8	35.1	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
GE 12000	26.1	33.6	34.3	34.9	35.2	35.6	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
GE 10000	26.8	34.9	35.6	36.2	36.5	36.9	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 9000	27.0	35.0	35.7	36.3	36.6	37.0	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 8000	28.7	37.6	38.5	39.1	39.5	40.1	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 7000	29.0	38.5	39.2	39.8	40.2	40.8	41.1	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 6000	29.3	38.9	39.6	40.2	40.5	41.1	41.5	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 5000	30.5	40.4	41.1	41.7	42.2	42.8	43.1	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 4500	32.0	42.7	43.4	44.0	44.4	45.0	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 4000	32.0	43.1	44.2	44.8	45.5	46.1	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 3500	34.3	45.9	46.9	47.6	48.5	49.1	49.4	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 3000	36.6	50.8	52.0	52.7	53.7	54.3	54.6	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 2500	39.8	56.3	57.9	58.7	60.0	60.9	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 2000	43.5	62.8	64.8	66.4	68.3	69.5	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 1800	44.7	65.5	67.5	69.3	71.9	73.0	73.8	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 1500	46.2	68.8	70.9	72.7	75.8	77.0	78.5	79.3	79.4	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 1200	47.2	73.7	73.2	74.9	78.4	79.9	81.4	82.3	82.4	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 1000	47.8	71.7	74.9	77.2	80.9	82.5	84.0	85.0	85.1	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 900	48.0	72.3	75.7	78.5	82.0	83.8	85.5	86.4	86.5	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 800	48.2	72.6	76.1	79.0	83.0	84.8	86.5	87.5	87.6	88.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 700	48.2	73.3	76.6	79.4	83.6	85.3	87.7	88.4	88.4	89.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 600	48.2	73.3	76.7	79.7	83.9	85.7	87.6	88.5	88.8	89.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 500	48.2	73.3	76.7	79.7	83.9	85.9	88.3	89.2	89.6	90.5	91.8	92.0	92.3	92.3	92.3	92.3	92.3
GE 400	48.5	73.5	77.0	80.1	84.4	86.5	89.6	90.5	90.9	91.8	93.3	93.4	93.9	93.9	94.0	94.0	94.0
GE 300	48.5	73.6	77.1	80.4	84.6	86.9	90.4	91.4	91.8	92.6	94.4	94.6	95.2	95.2	95.3	95.3	95.3
GE 200	48.5	73.6	77.1	80.4	84.6	86.9	90.5	91.6	92.1	93.0	94.8	94.9	95.6	95.6	96.1	96.1	96.1
GE 100	48.5	73.6	77.1	80.4	84.6	86.9	90.8	92.0	92.4	93.5	95.5	95.9	96.6	96.6	97.3	97.9	97.9
GE 0	48.5	73.6	77.1	80.4	84.6	86.9	90.8	92.0	92.4	93.5	95.5	95.9	96.7	96.7	97.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	1	1 1/2	2	2 1/2	3	3 1/2	4	5	6	7	8	9	10	11	12	13	14
NO CEIL	20.6	27.9	29.1	29.7	30.1	30.4	30.5	30.5	30.6	30.6	30.7	30.7	30.7	30.7	30.7	30.7	30.7
GE 2000	21.6	29.6	31.1	31.7	32.3	32.5	32.6	32.6	32.7	32.7	32.9	32.9	32.9	32.9	33.0	33.0	33.0
GE 1800	21.7	29.8	31.3	31.9	32.5	32.7	32.9	32.9	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.2	33.2
GE 1600	21.7	29.8	31.3	31.9	32.5	32.7	32.9	32.9	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.2	33.2
GE 1400	21.7	30.0	31.6	32.2	32.7	33.0	33.1	33.1	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.5	33.5
GE 1200	22.2	30.6	32.2	32.7	33.3	33.6	33.7	33.7	33.8	33.8	33.9	33.9	33.9	33.9	33.9	34.0	34.0
GE 1000	22.6	31.6	33.1	33.7	34.3	34.5	34.6	34.6	34.8	34.8	34.9	34.9	34.9	34.9	35.0	35.0	35.0
GE 900	22.6	31.6	33.1	33.7	34.3	34.5	34.6	34.6	34.8	34.8	34.9	34.9	34.9	35.0	35.0	35.1	35.1
GE 800	24.3	34.4	36.2	36.9	37.5	37.7	37.8	37.8	37.9	37.9	38.1	38.1	38.1	38.1	38.1	38.2	38.2
GE 700	24.8	35.0	36.8	37.5	38.1	38.5	38.7	38.8	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.1	39.1
GE 600	25.3	35.6	37.4	38.1	38.7	39.1	39.2	39.4	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.7	39.7
GE 500	26.8	37.9	39.7	40.5	41.3	41.7	41.8	42.1	42.2	42.2	42.3	42.3	42.3	42.3	42.3	42.4	42.4
GE 450	28.5	39.7	41.7	42.6	43.3	43.9	44.0	44.2	44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.6	44.6
GE 400	28.5	40.1	42.2	43.0	43.7	44.3	44.4	44.7	44.8	44.8	44.9	44.9	44.9	44.9	44.9	45.0	45.0
GE 350	30.0	42.6	44.9	45.7	46.6	47.2	47.3	47.5	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.9	47.9
GE 300	31.9	45.7	48.0	48.9	49.8	50.4	50.5	50.7	50.8	50.8	50.9	50.9	50.9	50.9	51.1	51.1	51.1
GE 250	35.6	52.2	55.2	56.7	57.8	58.6	58.9	59.1	59.2	59.2	59.3	59.3	59.3	59.3	59.5	59.6	59.6
GE 200	37.6	56.9	60.3	62.1	63.9	65.2	65.6	66.4	66.7	66.8	67.0	67.1	67.1	67.1	67.1	67.3	67.3
GE 180	39.5	59.8	63.4	65.5	67.6	68.9	69.6	70.4	70.7	70.8	71.0	71.2	71.2	71.2	71.2	71.3	71.3
GE 150	41.8	64.5	68.2	70.4	73.5	75.1	76.5	77.3	77.5	77.8	78.1	78.3	78.3	78.3	78.3	78.4	78.4
GE 120	42.6	66.3	70.3	73.0	76.6	78.1	79.7	80.7	81.0	81.3	81.7	81.8	81.8	81.8	81.8	81.9	81.9
GE 100	43.4	67.7	72.2	75.2	79.1	80.9	82.6	84.0	84.4	84.9	85.6	85.7	85.8	85.8	85.8	85.9	85.9
GE 90	43.6	68.0	72.6	75.5	79.4	81.2	83.0	84.5	84.9	85.3	86.3	86.4	86.5	86.5	86.5	86.6	86.6
GE 80	43.6	68.3	72.3	76.4	80.4	82.4	84.2	85.7	86.1	86.6	87.6	87.7	87.8	87.8	87.8	87.9	87.9
GE 70	43.6	68.6	73.6	77.6	81.2	83.3	85.1	86.9	87.2	88.1	89.2	89.4	89.6	89.6	89.6	89.7	89.7
GE 60	43.6	69.0	74.1	77.4	82.0	84.2	86.1	87.9	88.3	89.1	90.3	90.4	90.7	90.7	90.7	90.8	90.8
GE 50	43.6	68.8	74.1	77.4	82.3	84.4	86.4	88.4	88.8	89.7	91.3	91.6	92.0	92.0	92.0	92.1	92.1
GE 40	43.7	68.9	74.2	77.7	82.7	84.9	86.9	88.9	89.2	90.3	91.8	92.2	92.7	92.7	92.8	92.9	92.9
GE 30	43.7	68.9	74.3	77.9	83.0	85.1	87.1	89.2	89.8	91.0	92.6	92.9	93.9	94.1	94.2	94.2	94.2
GE 20	43.7	68.9	74.3	78.1	83.2	85.3	87.5	90.1	90.9	92.2	94.4	94.8	96.1	96.3	96.9	97.0	97.0
GE 10	43.7	68.9	74.3	78.1	83.2	85.3	87.5	90.1	91.0	92.4	95.5	95.9	97.3	97.5	98.3	99.1	99.1
GE 0	43.7	68.9	74.3	78.1	83.2	85.3	87.5	90.1	91.0	92.4	95.5	95.9	97.4	97.8	98.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
LAFAYETTE
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87
MONTH: FEB HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	23.8	32.4	33.7	34.0	35.3	35.9	36.2	36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
GE 20000	25.8	36.2	37.6	38.8	39.4	40.0	40.2	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
GE 18000	25.8	36.2	37.6	38.8	39.4	40.0	40.2	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 16000	25.8	36.2	37.6	38.8	39.4	40.0	40.3	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 14000	25.8	36.5	37.9	39.1	39.7	40.3	40.7	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 12000	26.0	36.9	38.3	39.5	40.1	40.7	41.0	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 10000	26.8	38.2	39.6	40.9	41.7	42.4	42.8	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	27.3	39.8	40.2	41.5	42.3	43.0	43.4	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 8000	28.7	41.0	42.4	44.0	44.9	46.0	46.3	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 7000	29.0	41.5	42.9	44.4	45.5	46.6	46.9	47.4	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 6000	29.3	41.8	43.3	44.8	45.9	46.9	47.3	47.8	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 5000	29.6	42.6	44.0	45.5	46.8	47.9	48.2	48.7	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 4500	30.5	43.7	45.2	46.7	48.1	49.2	49.5	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
GE 4000	30.7	44.1	45.5	47.0	48.5	49.5	49.9	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 3500	31.6	45.2	46.6	48.1	49.5	50.6	50.9	51.4	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 3000	32.2	46.6	48.0	49.5	50.0	51.7	52.7	53.2	53.7	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0
GE 2500	33.8	49.6	51.0	53.0	54.7	55.9	56.6	57.2	57.3	57.4	57.7	57.8	57.8	57.8	57.8	57.8	57.8
GE 2000	35.8	53.2	55.8	57.9	60.2	61.6	62.8	64.1	64.3	64.8	65.1	65.2	65.4	65.4	65.4	65.4	65.4
GE 1800	36.2	54.7	57.4	59.8	62.3	63.6	65.2	66.7	67.1	67.6	68.0	68.1	68.2	68.2	68.2	68.2	68.2
GE 1500	38.2	58.7	61.6	64.5	68.0	70.4	72.2	73.9	74.3	75.3	76.2	76.4	76.7	76.7	76.7	76.7	76.7
GE 1200	38.7	59.8	62.8	66.3	70.1	72.6	74.7	77.2	77.7	78.6	79.8	80.0	80.4	80.4	80.4	80.4	80.4
GE 1000	39.5	61.9	65.5	69.1	73.4	76.1	78.6	81.4	81.9	83.2	84.5	84.8	85.2	85.2	85.2	85.2	85.2
GE 900	39.5	62.9	66.5	70.2	74.6	77.3	79.9	82.4	83.3	84.8	86.1	86.3	86.8	86.8	86.8	86.8	86.8
GE 800	39.5	63.1	66.9	71.3	75.9	78.7	81.6	84.6	85.2	86.8	88.2	88.4	88.9	88.9	88.9	88.9	88.9
GE 700	39.5	63.2	67.1	71.7	76.5	79.3	82.4	85.5	86.1	87.6	89.1	89.4	89.8	89.8	89.8	89.8	89.8
GE 600	39.5	63.4	67.4	72.1	77.0	79.8	83.2	86.4	87.5	89.1	90.9	91.3	91.8	91.8	91.8	91.8	91.8
GE 500	39.5	63.4	67.4	72.1	77.1	79.9	83.3	87.0	88.1	90.1	92.0	92.3	93.0	93.0	93.0	93.1	93.1
GE 400	39.5	63.4	67.5	72.2	77.2	80.0	83.5	87.2	88.7	90.7	92.8	93.3	94.2	94.2	94.2	94.3	94.3
GE 300	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.5	89.0	91.4	94.1	94.7	95.7	95.7	95.7	96.0	96.0
GE 200	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	96.8	96.8	97.6	97.8
GE 100	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	97.5	98.6	98.6	98.9
GE n	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	97.5	98.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS (LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	27.4	34.5	35.6	35.0	35.9	35.9	36.0	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 20000	30.7	39.0	40.2	40.4	40.7	40.7	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 18000	31.0	39.5	40.8	41.0	41.3	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 16000	31.0	39.5	40.8	41.0	41.3	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 14000	31.2	39.7	41.0	41.3	41.5	41.5	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
GE 12000	31.8	40.7	42.0	42.4	42.4	42.4	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 10000	32.2	41.7	43.0	43.4	43.6	43.6	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 9000	32.4	42.0	43.3	43.6	43.9	43.9	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 8000	32.9	42.6	44.2	44.8	45.2	45.2	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 7000	33.5	43.4	44.9	45.5	46.0	46.0	46.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
GE 6000	33.6	43.5	45.0	45.6	46.1	46.1	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 5000	33.7	43.9	45.4	46.0	46.7	46.7	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 4500	34.0	44.3	45.9	46.5	47.2	47.2	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 4000	34.9	45.4	47.0	47.6	48.3	48.3	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 3500	35.3	46.2	47.9	48.5	49.2	49.2	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 3000	37.2	49.4	51.1	51.7	52.4	52.4	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 2500	39.7	53.5	55.4	56.3	57.1	57.6	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 2000	42.8	59.2	62.1	63.6	64.7	65.2	66.3	67.3	67.3	67.3	67.5	67.5	67.5	67.5	67.5	67.5
GE 1800	44.7	62.1	65.5	67.5	68.9	69.6	70.9	71.9	71.9	71.9	72.5	72.5	72.5	72.5	72.5	72.5
GE 1500	46.7	65.7	69.9	72.3	74.5	76.1	77.5	79.1	79.3	79.4	80.4	80.4	80.5	80.5	80.5	80.5
GE 1200	47.0	67.4	72.0	74.6	77.7	79.1	80.9	82.5	82.7	83.1	84.3	84.3	84.4	84.4	84.4	84.5
GE 1000	47.3	68.4	73.3	76.6	80.0	81.4	83.3	85.1	85.3	85.7	87.1	87.2	87.4	87.4	87.4	87.5
GE 900	47.3	68.6	73.6	77.3	80.9	82.3	84.4	86.5	86.8	87.1	88.5	88.7	88.8	88.8	88.8	88.9
GE 800	47.3	68.8	74.0	77.9	82.3	83.7	86.2	88.3	88.5	88.9	90.7	90.9	91.0	91.0	91.0	91.1
GE 700	47.3	69.0	74.2	78.3	82.6	84.2	86.6	88.9	89.1	89.5	91.4	91.6	91.7	91.7	91.7	91.8
GE 600	47.3	69.0	74.2	78.3	82.7	84.5	87.2	89.6	89.8	90.2	92.3	92.6	92.7	92.7	92.7	92.8
GE 500	47.3	69.0	74.2	78.3	82.9	84.9	87.7	90.8	91.4	92.4	94.6	94.8	95.0	95.0	95.0	95.2
GE 400	47.3	69.0	74.2	78.3	82.9	84.9	87.7	90.9	91.7	92.9	95.3	95.5	96.0	96.0	96.0	96.1
GE 300	47.3	69.0	74.2	78.3	82.9	84.9	87.7	91.3	92.3	93.6	96.3	96.6	97.6	97.6	97.6	97.8
GE 200	47.3	69.0	74.2	78.3	82.9	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.6	98.7	99.1
GE 100	47.3	69.0	74.2	78.3	82.9	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.8	98.9	99.8
GE 0	47.3	69.0	74.2	78.3	82.9	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.8	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 346

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 7/16	GE 1/4	GE 0		
NO CEIL	32.3	38.4	39.2	39.4	39.4	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7		
GE 20000	36.1	42.9	44.0	44.1	44.1	44.2	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6		
GE 18000	36.4	43.6	44.7	44.8	44.8	44.9	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3		
GE 16000	36.4	43.6	44.7	44.8	44.8	44.9	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3		
GE 14000	36.5	43.7	44.9	44.9	44.9	45.0	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4		
GE 12000	36.9	44.3	45.4	45.5	45.5	45.6	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0		
GE 10000	37.9	46.0	47.0	47.2	47.2	47.3	47.6	47.6	47.8	47.6	47.8	47.8	47.8	47.8	47.8	47.8		
GE 9000	37.9	46.0	47.0	47.2	47.2	47.3	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8		
GE 8000	38.3	46.6	47.6	47.9	47.9	48.0	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5		
GE 7000	38.9	47.4	48.5	48.8	48.8	48.9	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4		
GE 6000	38.9	47.4	48.5	48.8	48.8	48.9	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4		
GE 5000	39.0	48.2	49.3	49.6	49.6	49.9	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4		
GE 4500	39.4	48.7	49.8	50.1	50.1	50.4	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8		
GE 4000	39.5	48.9	50.0	50.5	50.5	50.7	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2		
GE 3500	40.7	50.1	51.2	51.8	51.8	52.0	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5		
GE 3000	43.0	53.5	54.6	55.3	55.3	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0		
GE 2500	46.2	59.8	61.7	62.5	62.9	63.1	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8		
GE 2000	49.1	66.8	69.6	71.0	71.9	72.2	72.9	73.2	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8		
GE 1800	50.6	69.9	72.9	74.6	76.0	76.5	77.3	78.1	78.3	78.8	79.0	79.0	79.0	79.0	79.0	79.0		
GE 1500	52.1	72.7	76.1	78.4	80.5	81.0	82.2	83.5	83.7	84.3	84.4	84.4	84.4	84.4	84.4	84.4		
GE 1200	52.4	73.4	77.2	80.1	83.0	83.6	84.8	86.3	86.5	87.2	87.4	87.4	87.4	87.4	87.4	87.4		
GE 1000	52.6	74.0	77.9	81.1	84.2	85.3	86.8	88.9	89.1	90.2	90.8	90.8	90.8	90.8	90.8	90.8		
GE 900	52.6	74.0	77.9	81.4	84.5	85.7	87.1	89.2	89.6	90.7	91.5	91.5	91.5	91.5	91.5	91.5		
GE 800	52.6	74.1	78.4	82.0	85.1	86.4	87.8	90.0	90.3	91.6	92.4	92.8	92.8	92.8	92.8	92.8		
GE 700	52.6	74.3	79.7	82.4	85.5	86.9	88.5	90.9	91.3	92.6	93.4	93.7	93.7	93.7	93.7	93.7		
GE 600	52.6	74.3	78.7	82.4	85.5	87.0	88.7	91.1	91.5	92.9	93.7	94.1	94.2	94.2	94.2	94.2		
GE 500	52.6	74.3	78.7	82.4	85.5	87.0	88.8	91.5	92.0	94.3	95.4	95.7	96.1	96.1	96.1	96.1		
GE 400	52.6	74.3	78.7	82.4	85.6	87.1	89.0	91.6	92.4	94.8	96.2	96.6	97.0	97.0	97.0	97.0		
GE 300	52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.4	93.0	95.4	97.3	97.6	98.1	98.1	98.2	98.3		
GE 200	52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.9	99.1	99.2		
GE 100	52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	99.1	99.2	99.6		
GE 0	52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	99.1	99.3	100.0		

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAF/FLYAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11
NO CEIL	33.2	37.4	39.3	39.5	39.5	39.5	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 20000	36.2	41.4	42.4	43.0	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 18000	36.6	42.4	43.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 16000	36.6	42.4	43.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 14000	36.6	42.4	43.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 12000	39.1	44.4	45.5	46.2	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 10000	39.5	46.2	47.4	48.0	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 9000	39.5	46.6	48.0	48.6	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 8000	40.3	48.1	49.5	50.0	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 7000	40.9	48.9	50.1	50.8	51.4	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 6000	40.9	48.9	50.1	50.8	51.4	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 5000	41.4	50.0	51.2	51.9	52.5	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 4500	42.8	51.8	53.0	53.7	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 4000	43.0	52.0	53.2	53.9	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 3500	44.9	54.5	55.7	56.7	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 3000	46.6	57.4	59.7	60.9	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 2500	49.9	63.8	65.5	67.5	68.7	69.0	69.1	69.4	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 2000	52.1	67.6	70.0	72.8	74.2	75.1	75.3	75.9	76.4	76.8	77.0	77.0	77.0	77.0	77.0	77.0
GE 1800	53.4	70.6	72.8	75.9	77.3	78.1	78.6	79.4	79.9	80.5	80.6	80.6	80.6	80.6	80.6	80.6
GE 1500	54.4	72.6	75.4	78.6	80.1	81.2	81.8	82.7	83.2	83.9	84.0	84.0	84.0	84.0	84.0	84.0
GE 1200	54.7	73.6	76.8	80.0	81.9	83.3	84.3	85.3	85.8	86.6	86.8	86.8	86.8	86.8	86.8	86.8
GE 1000	55.0	74.1	77.7	81.3	83.7	85.3	86.6	87.9	88.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7
GE 900	55.0	74.2	77.8	81.6	83.9	85.6	87.2	88.5	89.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3
GE 800	55.0	74.5	78.3	82.0	84.4	86.1	87.7	89.0	89.5	90.5	90.9	90.9	90.9	90.9	90.9	90.9
GE 700	55.0	74.6	78.4	82.3	84.9	86.6	88.7	90.0	90.4	91.6	92.0	92.0	92.0	92.0	92.0	92.0
GE 600	55.0	74.6	78.5	82.5	85.3	87.4	89.4	90.8	91.3	92.4	92.8	93.1	93.3	93.3	93.3	93.3
GE 500	55.0	74.7	78.6	82.6	85.7	87.7	89.7	91.6	92.1	93.5	93.9	94.2	94.6	94.6	94.6	94.6
GE 400	55.0	74.8	78.7	82.7	85.9	87.9	90.1	92.0	92.4	94.3	94.9	95.5	96.2	96.5	96.5	96.5
GE 300	55.0	74.8	78.7	82.7	85.9	87.9	90.3	92.4	92.9	95.2	95.7	96.5	97.3	97.5	97.6	97.6
GE 200	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	98.8	99.2
GE 100	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	99.1	99.6
GE 0	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	31.7	39.5	39.7	40.1	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 20000	32.5	41.1	41.4	41.8	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 18000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 16000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 14000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 12000	33.2	42.9	43.1	43.6	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 10000	34.3	44.1	44.3	44.9	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 9000	34.3	44.6	44.8	45.4	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 8000	35.7	45.6	45.9	46.5	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 7000	35.5	46.3	46.6	47.2	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 6000	35.6	46.8	47.0	47.6	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 5000	36.1	48.0	48.2	48.7	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 4500	37.6	50.0	50.4	51.1	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 4000	38.1	50.5	50.8	51.5	52.0	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 3500	39.7	52.7	53.2	53.9	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 3000	41.5	56.4	56.9	57.9	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 2500	45.7	62.3	63.2	64.4	66.2	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 2000	46.7	66.5	66.1	70.4	72.7	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 1800	47.8	70.1	71.9	74.3	76.7	77.3	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 1500	48.8	72.7	75.2	78.6	81.1	81.7	83.3	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 1200	49.3	73.5	76.2	79.9	82.5	83.3	85.1	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 1000	49.5	74.6	77.0	81.0	83.8	84.5	87.0	87.6	87.9	88.4	88.4	88.5	88.5	88.5	88.5	88.5
GE 900	49.5	74.2	77.1	81.3	84.3	85.3	87.5	88.3	88.4	88.9	88.9	89.0	89.0	89.0	89.0	89.0
GE 800	49.5	74.6	77.7	81.9	84.9	86.1	88.2	89.1	89.2	90.0	90.1	90.2	90.2	90.2	90.2	90.2
GE 700	49.5	75.1	78.3	82.6	85.6	86.9	89.1	90.1	90.2	91.0	91.1	91.3	91.3	91.3	91.3	91.3
GE 600	49.5	75.1	78.3	82.7	85.8	87.4	89.8	90.6	90.9	92.0	92.1	92.2	92.2	92.2	92.2	92.2
GE 500	49.5	75.1	78.3	82.7	85.9	87.5	90.0	90.9	91.0	92.2	92.4	92.6	92.8	92.8	92.8	92.8
GE 400	49.5	75.1	78.4	83.0	86.3	87.9	90.8	91.8	92.3	93.6	94.2	94.3	94.8	95.0	95.0	95.0
GE 300	49.5	75.1	78.5	83.2	86.8	88.4	91.7	93.1	93.7	95.2	95.9	96.0	96.5	96.7	96.8	96.8
GE 200	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.3	96.5	97.0	97.3	97.4	98.0
GE 100	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.7	96.8	97.5	97.8	98.3	99.2
GE 0	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.7	96.8	97.5	97.8	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOUPLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(IST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	1	10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4
NO CEIL	27.8	34.6	35.7	36.1	36.4	36.6	36.8	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 20000	30.0	38.0	39.0	39.5	39.9	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 18000	30.1	38.4	39.4	39.9	40.3	40.5	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 16000	30.1	38.4	39.4	39.9	40.3	40.5	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 14000	30.2	38.5	39.6	40.1	40.4	40.6	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 12000	30.7	39.4	40.5	41.0	41.4	41.6	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	42.0	42.0
GE 10000	31.5	40.7	41.6	42.3	42.7	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	31.7	41.0	42.1	42.7	43.0	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 8000	32.7	42.7	43.8	44.5	44.9	45.2	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 7000	33.2	43.3	44.5	45.2	45.7	46.0	46.2	46.4	46.4	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5
GE 6000	33.4	43.6	44.6	45.5	46.0	46.3	46.5	46.7	46.7	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8
GE 5000	34.0	44.8	46.0	46.7	47.3	47.6	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 4500	35.3	46.3	47.6	48.3	48.9	49.3	49.5	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8
GE 4000	35.5	46.7	48.1	48.8	49.5	49.9	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 3500	36.9	48.6	50.0	50.8	51.4	51.8	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 3000	38.7	51.9	53.4	54.3	55.0	55.5	55.7	55.9	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0
GE 2500	41.8	57.3	59.2	60.4	61.5	62.1	62.5	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 2000	44.2	62.5	65.0	66.9	68.5	69.3	70.1	70.6	70.7	70.9	71.0	71.0	71.0	71.1	71.1	71.1	71.1
GE 1800	45.6	65.4	68.1	70.2	72.1	73.0	73.9	74.6	74.7	75.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 1500	47.1	68.6	71.7	74.2	76.7	77.9	79.2	80.2	80.4	80.8	81.1	81.2	81.2	81.2	81.3	81.3	81.3
GE 1200	47.7	70.0	73.4	76.2	79.1	80.4	82.0	83.1	83.3	83.8	84.2	84.3	84.3	84.3	84.4	84.4	84.4
GE 1000	48.0	70.9	74.7	77.9	81.1	82.7	84.5	86.0	86.3	86.9	87.5	87.6	87.7	87.7	87.7	87.7	87.7
GE 900	48.1	71.2	75.1	78.4	81.6	83.3	85.3	86.8	87.1	87.8	88.5	88.6	88.7	88.7	88.7	88.7	88.7
GE 800	48.2	71.5	75.5	79.1	82.6	84.3	86.3	87.8	88.2	89.0	89.8	89.9	90.0	90.0	90.0	90.0	90.0
GE 700	48.2	71.8	75.9	79.6	83.2	85.0	87.1	88.8	89.1	90.0	90.9	91.0	91.1	91.1	91.1	91.1	91.1
GE 600	48.2	71.8	76.0	79.8	83.5	85.4	87.7	89.4	89.8	90.9	91.8	92.0	92.1	92.1	92.1	92.1	92.2
GE 500	48.2	71.9	76.0	79.8	83.7	85.6	88.1	90.0	90.5	91.9	93.1	93.3	93.6	93.6	93.7	93.7	93.7
GE 400	48.2	71.9	76.1	80.0	83.9	85.9	88.5	90.5	91.2	92.7	94.1	94.3	94.9	94.9	95.0	95.0	95.0
GE 300	48.2	72.0	76.2	80.1	84.1	86.0	88.9	91.1	91.9	93.5	95.1	95.4	96.1	96.2	96.3	96.4	96.4
GE 200	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.5	92.3	94.0	95.9	96.2	97.2	97.4	97.7	97.9	97.9
GE 100	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.6	92.3	94.1	96.2	96.6	97.7	97.9	98.5	99.1	99.1
GE 01	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.6	92.3	94.1	96.2	96.6	97.7	98.0	98.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOLRLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	33.1	42.6	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 20000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 13000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 16000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 14000	34.4	44.4	44.8	45.3	45.5	45.6	45.6	45.6	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 12000	34.8	44.9	45.4	45.8	46.0	46.1	46.1	46.1	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3
GE 10000	35.4	45.6	46.0	46.5	46.7	46.8	46.8	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 9000	35.4	45.6	46.0	46.5	46.7	46.8	46.8	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 8000	37.7	48.1	48.5	48.9	49.1	49.2	49.2	49.2	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 7000	39.2	50.1	50.6	51.3	51.7	51.8	51.9	51.9	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 6000	39.6	50.9	51.4	52.0	52.5	52.6	52.7	52.7	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 5000	40.4	52.2	52.8	53.4	53.9	54.0	54.1	54.1	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 4500	41.9	54.1	54.7	55.5	56.0	56.1	56.2	56.2	56.2	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 4000	42.2	54.5	55.2	55.9	56.5	56.6	56.7	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 3500	44.5	57.2	57.8	58.7	59.2	59.5	59.6	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 3000	46.1	60.1	61.0	62.2	62.7	62.9	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 2500	49.5	65.9	67.0	68.7	69.5	69.7	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 2000	50.9	68.8	70.2	72.7	73.7	73.9	74.3	74.3	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 1800	52.0	70.5	71.9	74.4	75.5	75.7	76.1	76.1	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 1500	53.7	74.3	76.2	78.7	80.2	80.4	81.1	81.2	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 1200	54.3	75.6	77.8	80.6	82.7	82.9	83.9	84.0	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 1000	54.6	76.7	79.4	82.7	85.2	85.4	86.8	86.9	86.9	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 900	54.9	77.1	79.8	83.2	85.7	86.1	87.7	87.8	87.8	88.6	88.7	88.7	88.8	88.8	88.8	88.8
GE 800	54.9	77.3	80.0	83.8	86.5	86.9	88.6	88.7	88.7	89.6	89.7	89.7	89.8	89.8	89.8	89.8
GE 700	54.9	77.4	80.1	83.9	86.8	87.2	88.9	89.0	89.0	89.9	90.0	90.0	90.1	90.1	90.1	90.1
GE 600	54.9	77.4	80.2	84.2	87.6	88.2	89.9	90.0	90.0	91.0	91.3	91.3	91.4	91.4	91.4	91.4
GE 500	54.9	77.6	80.5	84.8	89.0	89.7	91.6	91.9	91.9	93.0	93.4	93.5	93.8	93.8	93.8	93.8
GE 400	54.9	77.7	81.0	85.5	89.9	90.5	92.0	93.8	93.8	95.1	95.8	96.0	96.2	96.2	96.2	96.2
GE 300	54.9	77.8	81.1	85.6	90.0	90.6	93.2	94.2	94.2	95.9	96.7	96.9	97.3	97.3	97.3	97.3
GE 200	54.9	77.8	81.1	85.6	90.2	90.9	93.4	94.5	94.6	96.9	97.6	97.8	98.4	98.4	98.4	98.4
GE 100	54.9	77.8	81.2	85.7	90.4	91.1	93.7	94.7	94.8	97.1	97.8	98.2	98.8	99.1	99.4	99.5
GE 0	54.9	77.6	81.2	85.7	90.4	91.1	93.7	94.7	94.8	97.1	97.8	98.2	98.8	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPHA PI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 1 1/2	GE 2	GE 2 1/2	GE 3	GE 3 1/2	GE 4	GE 4 1/2	GE 5	GE 5 1/2	GE 6	GE 6 1/2	GE 7	GE 7 1/2	GE 8	GE 8 1/2	GE 9
NO CEIL	31.1	43.2	47.6	44.3	44.6	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 20000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 18000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 16000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 14000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 12000	32.3	45.4	47.7	46.6	46.9	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 10000	32.4	45.6	46.1	46.6	47.1	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 9000	32.4	45.6	46.1	46.6	47.1	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 8000	33.8	47.5	48.1	48.7	49.0	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 7000	35.7	46.9	48.5	50.1	50.4	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 6000	35.4	49.1	49.7	50.3	50.6	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 5000	36.2	50.8	51.3	51.9	52.3	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 4500	37.2	52.0	52.7	53.3	53.7	53.9	54.7	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 4000	37.7	52.6	53.2	53.5	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 3500	39.8	55.2	55.8	56.5	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 3000	41.8	58.7	59.7	60.6	61.2	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 2500	44.4	63.4	65.1	66.3	67.7	67.2	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 2000	46.6	67.6	70.0	71.7	72.9	73.1	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 1800	48.0	69.8	72.6	74.5	75.8	76.1	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 1500	49.5	71.6	74.6	76.9	78.5	79.0	79.9	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 1200	50.2	73.2	76.2	78.5	80.4	81.2	82.2	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 1000	51.2	75.4	78.9	81.6	83.8	84.6	85.9	86.5	86.5	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 900	51.7	75.6	79.1	81.9	84.2	85.1	86.3	86.9	86.9	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 800	51.3	75.8	79.5	82.6	85.1	86.0	87.3	88.0	88.1	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 700	51.3	76.0	79.7	83.0	85.5	86.6	88.1	88.7	88.8	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 600	51.4	76.5	80.2	83.7	86.2	87.3	89.0	89.7	89.8	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5
GE 500	51.4	76.7	80.4	84.2	87.0	88.2	90.4	91.2	91.3	91.9	92.3	92.4	92.4	92.4	92.4	92.4	92.4
GE 400	51.4	76.8	80.5	84.7	87.8	89.0	91.4	92.3	92.4	93.1	94.0	94.1	94.2	94.2	94.2	94.2	94.2
GE 300	51.4	76.8	80.9	85.1	88.9	89.8	92.5	93.9	94.1	95.1	95.9	96.1	96.2	96.2	96.3	96.3	96.3
GE 200	51.4	76.9	81.2	85.4	88.9	90.3	93.1	94.7	95.1	96.5	97.4	97.6	97.7	97.7	97.8	98.1	98.1
GE 100	51.4	76.9	81.2	85.4	89.0	90.4	93.2	95.1	95.4	96.8	97.7	98.0	98.3	98.4	98.8	99.2	99.2
GE 0	51.4	76.9	81.2	85.4	89.0	90.4	93.2	95.1	95.4	96.8	97.7	98.0	98.3	98.6	99.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GENERAL CLIMATOLOGY BRANCH
NAFLTAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM EQUALLY OBSERVATIONS

STATION NUMBER: 726290 STATION NAME: ALFENA MI

PERIOD OF RECORD: 78-67
MONTH: MAR HOURS (LST): 0600-0800

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
1	1	1	6	5	4	3	2	1 1/2	1	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0	0
NO CEIL	1	79.4	40.9	40.2	43.1	43.8	43.9	44.2	44.7	44.3	44.3	44.4	44.4	44.4	44.6	44.6	44.6	44.6	44.6
GE 2000	1	31.7	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.4	47.6	47.6	47.6	47.6	47.6
GE 1000	1	31.3	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.4	47.6	47.6	47.6	47.6	47.6
GE 1000	1	31.3	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.4	47.6	47.6	47.6	47.6	47.6
GE 1000	1	31.4	43.4	44.8	45.8	46.6	46.7	47.1	47.3	47.3	47.3	47.5	47.5	47.5	47.7	47.7	47.7	47.7	47.7
GE 1000	1	31.6	43.7	44.1	45.0	46.8	46.9	47.3	47.5	47.5	47.5	47.7	47.7	47.7	48.0	48.0	48.0	48.0	48.0
GE 1000	1	37.3	45.2	46.9	48.0	48.8	48.9	49.5	49.7	49.7	49.7	49.9	49.9	49.9	50.1	50.1	50.1	50.1	50.1
GE 9000	1	37.3	45.2	46.9	48.0	48.8	48.9	49.5	49.7	49.7	49.7	49.9	49.9	49.9	50.1	50.1	50.1	50.1	50.1
GE 3000	1	32.6	46.2	48.1	49.2	50.1	50.3	50.9	51.1	51.1	51.1	51.3	51.3	51.3	51.5	51.5	51.5	51.5	51.5
GE 7000	1	33.4	47.3	49.1	50.3	51.2	51.4	51.9	52.2	52.2	52.2	52.4	52.4	52.4	52.6	52.6	52.6	52.6	52.6
GE 6000	1	32.4	47.7	49.6	50.3	51.6	51.8	52.4	52.6	52.6	52.6	52.8	52.8	52.8	53.0	53.0	53.0	53.0	53.0
GE 5000	1	34.1	48.8	50.8	51.9	52.8	53.1	53.7	54.0	54.0	54.0	54.2	54.2	54.2	54.4	54.4	54.4	54.4	54.4
GE 4000	1	34.9	49.9	51.9	53.1	54.1	54.5	55.3	55.5	55.5	55.5	55.7	55.7	55.7	55.9	55.9	55.9	55.9	55.9
GE 4000	1	35.4	50.3	52.4	53.5	54.5	54.9	55.7	55.9	55.9	55.9	56.1	56.1	56.1	56.3	56.3	56.3	56.3	56.3
GE 3500	1	37.6	53.4	55.6	57.2	58.3	58.9	59.8	60.0	60.0	60.0	60.2	60.2	60.2	60.4	60.4	60.4	60.4	60.4
GE 3000	1	39.7	56.0	58.7	61.3	61.4	62.0	62.9	63.1	63.1	63.1	63.3	63.3	63.3	63.5	63.5	63.5	63.5	63.5
GE 2000	1	41.0	59.4	62.4	64.4	65.7	66.3	67.4	67.6	67.6	67.6	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.1
GE 2000	1	42.3	62.6	66.0	68.3	70.0	70.6	72.0	72.3	72.3	72.3	72.5	72.5	72.5	72.7	72.7	72.7	72.7	72.7
GE 1500	1	42.9	67.5	67.3	64.9	71.8	72.6	74.0	74.2	74.2	74.2	74.4	74.4	74.4	74.6	74.6	74.6	74.6	74.6
GE 1500	1	44.1	65.9	69.5	72.6	76.1	75.9	77.6	78.5	78.8	78.9	79.1	79.1	79.1	79.4	79.4	79.4	79.4	79.4
GE 1000	1	44.7	67.3	71.5	74.1	76.6	77.6	79.5	80.4	80.8	81.1	81.3	81.3	81.3	81.5	81.5	81.5	81.5	81.5
GE 1000	1	45.6	69.2	73.2	76.7	79.4	80.6	82.7	83.6	84.1	84.4	84.7	84.8	84.8	85.1	85.1	85.1	85.1	85.1
GE 800	1	45.7	69.6	73.7	77.1	79.9	81.3	83.5	84.6	84.9	85.4	85.7	85.8	85.8	86.0	86.0	86.0	86.0	86.0
GE 800	1	45.8	69.9	74.0	77.7	80.5	82.2	84.5	85.8	86.2	87.1	87.4	87.5	87.5	87.8	87.8	87.8	87.8	87.8
GE 700	1	45.9	70.1	74.2	78.2	81.0	82.6	85.1	86.6	87.1	88.1	88.4	88.5	88.5	88.8	88.8	88.8	88.8	88.8
GE 600	1	45.9	70.3	74.6	78.7	81.6	83.3	86.0	87.0	87.5	88.7	89.0	89.3	89.3	90.0	90.0	90.0	90.0	90.0
GE 500	1	45.9	70.4	75.1	79.5	82.5	84.2	86.9	89.1	89.7	91.0	91.6	92.2	92.5	92.5	92.5	92.5	92.5	92.5
GE 400	1	45.9	70.5	75.4	80.0	83.1	85.2	87.8	90.4	91.0	92.4	93.3	93.7	94.0	94.2	94.3	94.3	94.3	94.3
GE 300	1	45.9	70.5	75.4	80.1	83.2	85.7	88.6	91.5	92.2	93.5	94.6	94.9	95.5	95.7	95.8	95.9	95.9	95.9
GE 200	1	45.9	70.5	75.4	80.2	83.3	85.8	88.9	91.8	92.5	93.9	95.3	95.6	96.3	96.7	97.2	97.5	97.5	97.5
GE 100	1	45.9	70.5	75.4	80.2	83.4	85.9	89.0	92.0	92.7	94.4	95.8	96.1	97.1	97.4	98.5	98.9	98.9	98.9
GE 50	1	45.9	70.5	75.4	80.2	83.4	85.9	89.0	92.0	92.7	94.4	95.8	96.1	97.1	97.5	98.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 75-87
MONTH: MAR FOURS(LST): 0900-1100

TOTAL NUMBER OF OBSERVATIONS: 430

GLOBAL CLIMATOLOGY BRANCH
 CRAPETAC
 AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 73-87
 MONTH: MAR HOURS(IST): 1200-1400

CEILING		VISIBILITY IN STATUTE MILES																
1 FEET	1 10	6 0	5 5	4 4	3 3	2 1/2	1 1/2	1 1/2	1 1/4	1 1	7/8	5/8	1/2	5/16	1/4	0		
NO CEIL	37.4	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5		
GE 20000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2		
GE 16000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2		
GE 14000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2		
GE 12000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2		
GE 10000	40.3	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2		
GE 8000	41.9	48.9	49.7	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0		
GE 6000	42.0	49.0	49.8	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		
GE 4000	42.6	50.5	51.5	51.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2		
GE 3000	43.4	51.6	52.7	53.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4		
GE 2000	43.4	51.8	52.9	53.2	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7		
GE 1800	44.4	52.5	53.7	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3		
GE 1600	44.1	53.2	54.4	54.6	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4		
GE 1400	44.3	53.8	54.8	55.3	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8		
GE 1200	44.9	54.9	56.0	56.3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1		
GE 1000	46.7	57.4	58.7	59.1	59.9	60.0	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3		
GE 800	50.0	61.8	63.5	64.4	65.4	65.5	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8		
GE 600	50.2	67.5	70.0	71.0	72.3	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6		
GE 400	54.2	69.9	72.6	73.8	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3		
GE 300	55.5	72.7	75.0	76.0	78.7	79.5	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4		
GE 200	56.1	74.6	76.0	76.9	81.9	82.9	83.5	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1		
GE 180	56.5	75.6	77.2	78.5	84.2	85.3	86.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1		
GE 160	56.5	75.9	77.7	78.3	84.6	85.8	86.9	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6		
GE 140	56.5	76.1	78.0	78.6	85.4	86.7	87.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9		
GE 120	56.5	76.5	78.3	78.9	86.2	87.7	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3		
GE 100	56.5	76.5	78.3	78.9	86.5	88.2	89.6	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4		
GE 80	56.5	76.5	78.4	78.4	86.9	88.8	90.5	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4		
GE 60	56.5	76.5	78.4	78.4	87.2	89.2	91.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0		
GE 40	56.5	76.5	78.4	78.4	87.5	89.6	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2		
GE 20	56.5	76.5	78.4	78.4	87.5	89.6	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2		
GE 0	56.5	76.5	78.4	78.4	87.5	89.6	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2		

TOTAL NUMBER OF OBSERVATIONS: 530

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 72039J STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(DIST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 1	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	40.2	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 2000	44.2	51.5	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1800	44.2	51.5	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1600	44.2	51.6	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 1400	44.6	52.0	52.7	52.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 1200	44.9	52.6	52.8	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 1000	46.3	54.4	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 900	46.7	54.6	55.3	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 800	47.5	55.8	56.7	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 700	48.1	56.3	57.2	57.3	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 600	48.2	56.5	57.3	57.4	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 500	48.4	57.1	57.9	58.1	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 450	48.7	57.6	58.5	58.7	59.0	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 400	49.1	58.1	59.1	59.2	59.6	59.6	59.9	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 350	49.3	59.3	60.8	61.0	61.3	61.5	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8
GE 300	55.1	64.9	66.1	66.5	66.6	67.2	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5
GE 250	57.4	68.9	70.3	70.6	71.0	71.5	71.8	71.8	71.8	71.8	71.8	71.9	72.0	72.0	72.0	72.0
GE 200	60.1	73.5	75.5	76.0	76.6	77.1	77.4	77.5	77.5	77.5	77.5	77.6	77.7	77.7	77.7	77.7
GE 180	60.4	74.9	77.2	77.7	78.4	79.0	79.5	79.6	79.6	79.6	79.6	79.7	79.8	79.8	79.8	79.8
GE 150	61.0	76.7	79.8	80.4	81.4	82.5	83.1	83.3	83.4	83.5	83.5	83.8	83.9	83.9	83.9	83.9
GE 120	61.2	77.4	80.5	81.3	82.3	83.4	84.2	84.6	84.7	84.8	84.8	85.1	85.2	85.2	85.2	85.2
GE 100	61.4	78.6	81.9	83.3	84.5	85.9	86.7	87.1	87.2	87.3	87.3	87.7	88.1	88.1	88.1	88.1
GE 90	61.4	78.8	82.3	83.8	84.9	86.3	87.1	87.5	87.6	87.8	87.8	88.7	88.8	88.8	88.8	88.8
GE 80	61.4	79.0	82.6	84.4	85.7	87.1	87.8	88.3	88.4	88.6	88.6	89.6	89.8	89.8	89.8	89.8
GE 70	61.4	79.2	82.9	84.7	86.0	87.7	88.6	89.1	89.4	89.6	89.6	90.6	90.9	91.0	91.0	91.0
GE 60	61.4	79.5	83.1	85.2	86.7	88.4	89.6	90.1	90.4	90.8	90.8	91.9	92.3	92.5	92.5	92.5
GE 50	61.4	79.5	83.2	85.3	86.8	88.5	89.8	90.5	91.0	91.5	91.5	92.8	93.1	93.5	93.7	93.8
GE 40	61.4	79.5	83.3	85.4	87.2	89.0	90.9	92.2	92.7	93.5	94.8	95.3	95.7	96.0	96.1	96.1
GE 30	61.4	79.5	83.3	85.4	87.2	89.1	91.2	92.6	93.2	94.3	96.1	96.6	97.3	97.7	97.8	97.8
GE 20	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	97.5	98.1	98.6	99.4
GE 10	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	97.3	98.1	98.6	99.7
GE 0	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	97.3	98.1	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
LAFAYETTE
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 736390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(IST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	42.2	46.6	46.6	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE 2000	45.1	50.3	51.6	51.2	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
GE 1800	45.7	50.5	51.0	51.4	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 1600	45.4	50.6	51.1	51.5	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 1400	45.9	51.2	51.6	52.0	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1200	46.6	51.6	52.3	52.7	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 1000	47.2	52.8	53.2	53.7	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 900	47.4	53.2	53.7	54.1	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 800	48.5	54.6	55.1	55.5	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 700	49.5	55.9	56.3	56.9	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 600	49.8	56.3	56.8	57.3	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 500	50.1	56.7	57.1	57.6	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 450	51.7	58.7	59.1	59.8	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 400	51.9	59.4	59.8	60.4	60.9	60.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 350	54.0	61.4	62.5	63.2	63.9	64.0	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 300	56.2	64.7	65.5	66.2	66.9	67.0	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 250	60.1	70.8	71.6	72.9	73.8	74.0	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 200	62.2	74.1	75.8	77.4	78.8	79.2	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 180	62.5	75.9	78.1	79.8	81.3	81.7	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 160	63.1	77.2	79.9	81.8	83.5	84.2	84.8	85.1	85.1	85.2	85.2	85.3	85.3	85.4	85.4	85.4
GE 140	63.3	78.2	81.0	83.0	84.6	85.5	86.1	86.3	86.3	86.5	86.5	86.6	86.6	86.9	86.9	86.9
GE 120	63.4	79.1	82.5	84.0	86.7	87.3	88.0	88.4	88.4	88.6	89.1	89.1	89.2	89.2	89.2	89.2
GE 100	63.4	79.2	82.3	85.1	87.2	87.8	88.7	89.2	89.2	89.5	90.0	90.0	90.1	90.1	90.1	90.1
GE 90	63.5	79.5	82.7	85.5	87.7	88.4	89.5	90.1	90.1	90.5	91.1	91.1	91.2	91.2	91.2	91.2
GE 80	63.5	79.5	82.7	85.5	87.8	88.5	89.7	90.3	90.3	91.0	91.8	91.8	91.9	91.9	91.9	91.9
GE 70	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 60	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 50	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 40	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 30	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 20	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 10	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8
GE 0	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.8	92.8	92.8	92.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87
MONTH: MAR HOURS(IST): 2100-2300

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	1	GE 1F	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	37.7	44.4	44.6	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
GE 20000	1	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 18000	1	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 16000	1	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 14000	1	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 12000	1	39.7	47.4	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 10000	1	40.6	48.6	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
GE 9000	1	40.8	48.7	49.1	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 8000	1	42.3	50.6	51.1	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 7000	1	43.7	52.4	52.8	53.4	53.4	53.4	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 6000	1	43.9	52.8	53.2	53.9	53.9	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 5000	1	44.7	53.9	54.3	54.9	54.9	54.9	55.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 4500	1	46.0	55.7	56.2	56.9	56.9	56.9	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
GE 4000	1	46.5	56.6	57.2	57.8	58.0	58.0	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 3500	1	48.2	58.8	59.6	60.3	60.4	60.4	60.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 3000	1	50.1	61.7	62.6	63.4	63.5	63.5	63.7	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 2500	1	54.0	68.3	69.6	70.5	70.8	71.1	71.5	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 2000	1	55.7	71.9	74.0	75.4	75.7	76.1	76.6	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 1800	1	56.9	73.9	75.9	77.5	77.6	78.1	78.5	79.1	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 1500	1	59.0	76.2	79.0	81.1	81.8	82.6	83.2	84.0	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 1200	1	58.5	77.8	81.1	82.2	84.2	84.9	85.7	86.6	86.7	87.0	87.2	87.2	87.2	87.2	87.2	87.2
GE 1000	1	58.8	78.6	82.3	84.6	85.7	86.6	87.3	88.3	88.4	88.7	88.9	88.9	88.9	88.9	88.9	88.9
GE 900	1	59.0	79.2	82.9	85.3	86.6	87.4	88.4	89.4	89.5	90.0	90.2	90.2	90.2	90.2	90.2	90.2
GE 800	1	59.4	80.0	83.9	86.2	87.6	88.5	89.5	90.4	90.5	91.1	91.3	91.3	91.3	91.3	91.3	91.3
GE 700	1	59.4	80.0	83.9	86.2	87.7	88.7	89.8	90.8	90.9	91.4	91.6	91.6	91.6	91.6	91.6	91.6
GE 600	1	59.5	80.1	84.0	86.5	88.1	89.6	90.2	91.2	91.3	92.0	92.4	92.4	92.4	92.4	92.4	92.4
GE 500	1	59.5	80.3	84.2	86.8	88.6	89.8	91.1	92.4	92.5	93.2	93.5	93.5	93.7	93.7	93.7	93.7
GE 400	1	59.5	80.5	84.4	87.1	89.1	90.5	92.6	94.1	94.4	95.3	96.1	96.1	96.2	96.3	96.3	96.3
GE 300	1	59.5	80.6	84.5	87.4	89.5	90.9	92.9	94.6	95.7	96.2	97.2	97.2	97.3	97.4	97.4	97.4
GE 200	1	59.5	80.6	84.5	87.4	89.5	91.0	93.0	94.9	95.4	96.5	97.5	97.5	98.1	98.2	98.3	98.3
GE 100	1	59.5	80.6	84.5	87.4	89.5	91.0	93.2	95.3	95.7	96.8	97.8	98.1	98.9	99.0	99.6	99.7
GE 0	1	59.5	80.6	84.5	87.4	89.5	91.0	93.2	95.3	95.7	96.8	97.8	98.1	98.9	99.0	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87
MONTH: MAR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	35.7	43.8	44.3	44.7	44.9	45.0	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 20000	37.8	46.7	47.4	47.9	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4
GE 18000	37.8	46.7	47.4	47.9	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4
GE 16000	37.8	46.7	47.4	47.9	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4
GE 14000	38.0	46.9	47.6	48.1	48.4	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7
GE 12000	38.4	47.5	48.1	48.7	48.9	49.0	49.1	49.1	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2
GE 10000	39.1	48.5	49.3	49.8	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.4	50.4	50.4	50.4
GE 9000	39.2	48.6	49.4	50.0	50.2	50.3	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5
GE 8000	40.3	50.2	51.1	51.7	52.0	52.1	52.2	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 7000	41.3	51.5	52.4	53.1	53.4	53.5	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 6000	41.5	51.9	52.8	53.5	53.8	54.0	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 5000	42.0	52.8	53.7	54.4	54.9	55.0	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 4500	43.0	54.2	55.2	55.9	56.4	56.5	56.8	56.8	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 4000	43.3	54.7	55.7	56.5	56.9	57.1	57.3	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5
GE 3500	44.2	56.8	57.9	58.6	59.3	59.5	59.8	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0
GE 3000	47.0	59.9	61.2	62.2	62.9	63.2	63.5	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 2500	49.8	64.5	66.2	67.5	68.3	68.7	69.2	69.3	69.3	69.4	69.4	69.4	69.4	69.5	69.5	69.5	69.5
GE 2000	51.9	68.4	70.7	72.4	73.6	74.1	74.7	74.9	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 1800	52.8	70.2	72.7	74.5	75.8	76.4	77.0	77.3	77.3	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6
GE 1500	53.9	72.5	75.4	77.5	79.2	80.6	80.8	81.3	81.3	81.5	81.7	81.7	81.7	81.8	81.8	81.8	81.8
GE 1200	54.5	74.0	77.1	79.4	81.3	82.2	83.1	83.7	83.8	84.1	84.3	84.3	84.3	84.4	84.4	84.4	84.4
GE 1000	55.0	75.3	78.7	81.4	83.6	84.6	85.8	86.5	86.6	86.9	87.3	87.4	87.5	87.5	87.5	87.5	87.5
GE 900	55.1	75.7	79.1	81.9	84.2	85.3	86.5	87.3	87.4	87.8	88.3	88.3	88.3	88.4	88.4	88.5	88.5
GE 800	55.2	76.0	79.5	82.5	84.9	86.1	87.4	88.3	88.4	89.0	89.5	89.6	89.6	89.7	89.7	89.7	89.7
GE 700	55.2	76.1	79.7	82.8	85.4	86.6	88.1	89.1	89.3	90.0	90.6	90.7	90.8	90.8	90.8	90.8	90.8
GE 600	55.2	76.2	79.9	83.1	85.9	87.2	88.9	90.0	90.2	91.0	91.8	91.9	92.1	92.1	92.1	92.1	92.1
GE 500	55.2	76.3	80.1	83.5	86.6	88.0	89.8	91.2	91.4	92.3	93.2	93.4	93.6	93.7	93.7	93.7	93.7
GE 400	55.2	76.4	80.2	83.9	87.1	88.7	90.9	92.5	92.8	93.9	95.0	95.2	95.5	95.6	95.7	95.7	95.7
GE 300	55.2	76.4	80.3	84.6	87.4	89.1	91.4	93.4	93.8	95.1	96.4	96.6	96.9	97.1	97.2	97.2	97.2
GE 200	55.2	76.4	80.4	84.1	87.6	89.3	91.7	93.7	94.2	95.7	97.1	97.3	97.8	98.1	98.3	98.6	98.6
GE 100	55.2	76.4	80.4	84.1	87.6	89.3	91.8	93.8	94.3	95.8	97.3	97.6	98.3	98.6	99.1	99.5	99.5
GE 0	55.2	76.4	80.4	84.1	87.6	89.3	91.8	93.8	94.3	95.8	97.3	97.6	98.3	98.7	99.2	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: APR HOURS(IST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GL 2	GE 1 1/2	GL 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GL 1/4	GE 0	
NO CEIL	39.1	46.7	49.0	49.9	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.1	
GE 20000	40.3	50.6	51.8	52.1	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.4	
GE 18000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6	
GE 16000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6	
GE 14000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.6	
GE 12000	40.6	51.3	52.6	52.9	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.2	
GE 10000	40.9	51.7	52.9	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.6	
GE 9000	40.9	51.7	52.9	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.6	
GE 8000	42.5	53.4	54.7	55.0	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	
GE 7000	43.2	54.7	56.0	56.3	56.4	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	
GE 6000	43.9	55.4	56.8	57.1	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	
GE 5000	44.7	56.6	58.0	58.3	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.7	
GE 4500	47.0	60.2	61.8	62.1	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.6	
GE 4000	47.1	60.6	62.1	62.4	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	
GE 3500	48.8	63.8	65.4	65.8	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	
GE 3000	51.0	67.0	68.8	69.2	69.7	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	
GE 2500	53.0	71.7	73.6	74.1	74.7	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	
GE 2000	54.8	74.8	77.1	77.7	78.7	79.0	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	
GE 1800	55.1	75.7	78.0	78.8	79.7	80.0	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	
GE 1500	56.6	78.0	80.4	81.2	82.1	82.4	82.8	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	
GE 1200	57.4	79.0	81.6	82.4	83.3	83.7	84.0	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	
GE 1000	57.6	79.7	82.3	83.4	84.4	85.0	85.3	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0	
GE 900	57.8	79.7	82.6	83.6	84.3	85.3	85.7	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	
GE 800	57.8	80.2	83.2	84.4	85.6	86.2	86.8	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	
GE 700	57.8	80.6	83.6	84.9	86.0	86.9	87.4	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2	
GE 600	57.8	80.7	83.8	85.4	86.8	87.8	88.3	89.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	
GE 500	57.6	81.0	84.3	86.3	87.6	89.3	90.3	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	
GE 400	57.8	81.4	84.8	87.0	88.8	90.6	91.9	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.4	
GE 300	57.9	81.8	85.1	87.3	89.6	91.3	93.0	95.0	95.4	95.7	95.7	95.8	95.8	95.8	95.8	95.9	
GE 200	57.9	81.8	85.1	87.3	89.3	91.6	93.7	96.0	96.4	96.9	97.3	97.4	97.4	97.4	97.6	97.7	
GE 100	57.9	81.8	85.1	87.3	89.8	91.6	93.8	96.1	96.6	97.3	98.1	98.3	99.0	99.0	99.1	99.2	
GE 0	57.9	81.8	85.1	87.3	89.8	91.6	93.8	96.1	96.6	97.3	98.1	98.3	99.0	99.0	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	1	10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	7/16	1/4	0
NO CEIL	37.8	48.3	48.8	49.3	49.6	49.6	49.7	49.8	49.8	49.8	49.9	50.1	50.1	50.2	50.2	50.3	50.3	
GE 20000	39.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.0	53.0	53.1	53.1	53.2	53.2	
GE 16000	39.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.0	53.0	53.1	53.1	53.2	53.2	
GE 14000	39.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.1	53.1	53.2	53.2	53.3	53.3	
GE 12000	39.8	51.4	52.0	52.6	52.8	53.0	53.1	53.2	53.2	53.3	53.6	53.6	53.7	53.7	53.8	53.8		
GE 10000	40.6	52.4	53.0	53.6	53.8	54.1	54.2	54.3	54.3	54.4	54.7	54.7	54.8	54.8	54.9	54.9		
GE 9000	40.8	52.4	53.0	53.6	53.8	54.1	54.2	54.3	54.3	54.4	54.7	54.7	54.8	54.8	54.9	54.9		
GE 8000	42.7	54.8	55.3	56.0	56.2	56.6	56.7	56.8	56.8	56.9	57.1	57.1	57.2	57.2	57.3	57.3		
GE 7000	43.0	55.6	56.1	56.9	57.1	57.4	57.6	57.7	57.7	57.8	58.0	58.0	58.1	58.1	58.2	58.2		
GE 6000	43.1	55.6	56.3	57.1	57.3	57.7	57.9	57.9	57.9	58.0	58.2	58.2	58.3	58.3	58.4	58.4		
GE 5000	44.2	57.6	58.1	58.9	59.2	59.6	59.7	59.8	59.8	59.9	60.1	60.1	60.2	60.2	60.3	60.3		
GE 4500	46.4	60.6	61.4	62.4	62.8	63.1	63.3	63.4	63.4	63.6	63.8	63.8	63.9	63.9	64.0	64.0		
GE 4000	46.6	60.9	61.9	62.9	63.2	63.6	63.8	63.9	63.9	64.1	64.3	64.3	64.4	64.4	64.6	64.6		
GE 3500	47.9	63.1	64.2	65.2	65.9	66.2	66.4	66.6	66.6	66.8	67.0	67.0	67.1	67.1	67.2	67.2		
GE 3000	49.1	65.1	66.3	67.4	68.1	68.4	68.8	68.9	69.9	69.1	69.3	69.3	69.4	69.4	69.6	69.6		
GE 2500	50.8	69.1	70.4	71.9	72.7	73.0	73.3	73.4	73.4	73.8	74.0	74.0	74.1	74.1	74.2	74.2		
GE 2000	52.1	71.4	73.0	74.6	75.6	75.9	76.2	76.3	76.3	76.7	76.9	76.9	77.0	77.0	77.1	77.1		
GE 1800	53.2	73.1	74.8	76.3	77.4	77.8	78.1	78.3	78.3	78.7	78.9	78.9	79.0	79.0	79.1	79.1		
GE 1500	54.4	75.4	77.1	78.7	79.8	80.1	80.4	80.8	80.8	81.2	81.4	81.4	81.6	81.6	81.7	81.8		
GE 1200	55.2	76.4	78.1	79.7	80.9	81.2	81.6	81.9	81.9	82.4	82.8	82.8	82.9	82.9	83.0	83.1		
GE 1000	55.6	77.1	78.9	80.4	81.8	82.1	82.4	82.8	82.8	83.3	83.7	83.7	83.8	83.8	83.9	84.0		
GE 900	55.7	77.3	79.2	80.8	82.1	82.4	82.8	83.1	83.1	83.7	84.0	84.0	84.1	84.1	84.2	84.3		
GE 800	55.7	78.0	80.0	81.6	83.0	83.3	83.8	84.1	84.2	84.6	85.1	85.1	85.2	85.2	85.3	85.4		
GE 700	55.7	78.4	80.7	82.4	84.1	84.6	85.0	85.6	85.7	86.2	86.6	86.6	86.7	86.7	86.8	86.9		
GE 600	55.7	78.9	81.6	83.7	85.6	86.0	86.4	87.2	87.3	88.0	88.3	88.3	88.4	88.4	88.6	88.7		
GE 500	55.7	79.4	82.6	84.9	87.1	87.7	88.2	89.2	89.3	90.0	90.7	90.7	91.0	91.0	91.1	91.2		
GE 400	55.7	80.0	83.1	85.6	88.2	88.8	89.6	90.9	91.1	92.0	92.8	92.8	93.1	93.1	93.4	93.7		
GE 300	55.7	80.0	83.3	86.1	88.7	89.3	90.7	92.6	92.8	93.7	94.4	94.4	94.9	95.2	95.3	95.4		
GE 200	55.8	80.1	83.4	86.2	88.8	89.6	91.2	93.7	93.9	94.9	95.7	95.9	96.3	96.7	96.8	96.9		
GE 100	55.8	80.1	83.4	86.2	88.9	89.7	91.3	94.2	94.4	95.4	96.8	97.0	97.8	98.2	98.4	98.8		
GE 0	55.8	80.1	83.4	86.2	88.9	89.7	91.3	94.2	94.4	95.6	96.9	97.1	97.9	98.4	98.9	100.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87

MONTH: APR HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	35.6	44.3	45.8	46.1	46.4	46.8	47.0	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.3	47.3
GE 20000	37.3	47.8	49.3	49.7	50.0	50.6	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1
GE 18000	37.4	47.9	49.4	49.8	50.1	50.7	50.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2
GE 16000	37.4	47.9	49.4	49.8	50.1	50.7	50.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2
GE 14000	37.6	48.0	49.6	49.9	50.2	50.8	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.3	51.3
GE 12000	37.9	48.3	49.9	50.2	50.6	51.1	51.3	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.7	51.7
GE 10000	39.4	50.8	52.3	52.8	53.1	53.7	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2
GE 9000	39.4	50.8	52.3	52.8	53.1	53.7	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2
GE 8000	41.3	53.4	55.9	56.3	56.8	57.3	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0
GE 7000	42.3	54.7	57.1	57.6	58.1	58.7	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3
GE 6000	42.4	55.2	57.7	58.2	58.8	59.3	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0
GE 5000	42.8	56.1	58.7	59.3	59.9	60.4	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3
GE 4500	44.6	59.0	61.6	62.2	62.8	63.4	64.1	64.2	64.3	64.4	64.6	64.6	64.6	64.6	64.7	64.7
GE 4000	44.6	59.0	61.6	62.2	62.8	63.4	64.1	64.2	64.3	64.4	64.6	64.7	64.7	64.7	64.8	64.8
GE 3500	45.9	61.0	63.7	64.3	65.1	65.8	66.4	66.7	66.8	66.9	67.0	67.0	67.0	67.0	67.1	67.1
GE 3000	47.1	62.6	65.2	65.9	66.8	67.4	68.1	68.3	68.4	68.6	69.7	68.7	68.7	68.7	68.8	68.8
GE 2500	47.8	65.0	67.5	69.0	69.9	70.6	71.2	71.4	71.6	71.7	71.8	71.8	71.8	71.8	71.9	71.9
GE 2000	49.4	67.7	71.1	72.6	73.7	74.4	75.2	75.4	75.6	75.7	75.9	75.9	75.9	75.9	76.0	76.0
GE 1800	50.7	69.2	72.5	74.4	75.7	76.4	77.2	77.4	77.6	77.7	78.0	78.0	78.0	78.0	78.1	78.1
GE 1500	51.4	70.4	74.2	76.3	77.6	78.6	79.3	79.6	79.7	79.8	80.1	80.2	80.2	80.2	80.3	80.3
GE 1200	51.7	71.4	75.2	77.4	78.8	80.0	80.8	81.0	81.1	81.3	81.7	81.8	81.8	81.8	81.9	81.9
GE 1000	52.2	72.3	76.3	78.8	80.3	81.6	82.3	82.6	82.7	83.0	83.3	83.4	83.4	83.4	83.6	83.6
GE 900	52.4	72.6	76.9	79.4	81.1	82.3	83.1	83.4	83.7	84.0	84.3	84.4	84.4	84.4	84.6	84.6
GE 800	52.6	72.8	77.2	79.8	81.7	83.0	83.8	84.4	84.8	85.2	85.8	85.9	85.9	85.9	86.0	86.0
GE 700	52.6	73.3	77.8	80.3	82.3	83.7	84.6	85.0	85.9	86.3	87.2	87.3	87.3	87.3	87.4	87.4
GE 600	52.6	73.7	78.1	80.8	82.8	84.2	85.1	86.3	86.7	87.1	88.0	88.2	88.2	88.2	88.3	88.3
GE 500	52.6	73.9	78.4	81.1	83.3	85.0	86.2	87.7	88.0	89.7	89.6	89.9	89.9	89.9	90.0	90.0
GE 400	52.7	74.2	78.9	82.1	84.7	86.9	88.2	90.3	90.8	91.8	92.8	93.1	93.2	93.3	93.4	93.6
GE 300	52.7	74.2	79.0	82.4	85.2	87.6	88.9	91.4	92.1	93.4	94.7	95.0	95.1	95.4	95.6	95.7
GE 200	52.7	74.2	79.0	82.4	85.2	87.7	89.0	91.9	93.0	94.8	96.2	96.7	96.8	97.1	97.3	97.8
GE 100	52.7	74.2	79.0	82.4	85.2	87.7	89.0	91.9	93.1	95.0	96.6	97.1	97.3	97.7	97.9	98.8
GE 0	52.7	74.2	79.0	82.4	85.2	87.7	89.0	91.9	93.1	95.0	96.6	97.1	97.4	97.8	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NC CEIL	42.9	48.4	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 20000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 18000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 16000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 14000	44.9	52.1	52.7	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 12000	45.7	53.0	53.6	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 10000	46.3	53.6	54.3	54.7	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 9000	46.3	53.9	54.4	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 8000	47.8	55.9	56.4	57.1	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
GE 7000	48.3	56.6	57.4	58.1	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 6000	48.6	57.0	57.7	58.3	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
GE 5000	49.0	57.9	58.6	59.2	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 4500	50.0	59.7	60.3	61.0	61.6	61.6	62.1	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 4000	50.3	60.3	61.0	61.7	62.2	62.4	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 3500	51.0	61.2	62.0	62.7	63.3	63.6	64.0	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 3000	51.4	62.4	63.4	64.1	65.1	65.3	65.6	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 2500	53.6	66.4	67.9	68.8	69.8	70.0	70.6	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 2000	55.0	70.6	72.0	73.0	74.0	74.6	75.1	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 1800	55.7	72.1	73.7	74.6	75.8	76.3	77.1	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 1500	57.1	74.4	76.1	77.7	78.7	79.3	80.3	80.6	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 1200	58.2	76.0	77.8	79.7	80.7	81.4	82.4	83.1	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 1000	58.8	77.0	79.2	81.7	82.7	83.7	84.9	85.7	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 900	59.0	77.2	79.4	82.2	83.2	84.3	85.7	86.8	86.9	87.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 800	59.1	77.9	80.1	83.3	84.6	85.6	87.3	88.6	88.7	89.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 700	59.2	78.1	80.6	83.8	85.0	86.4	88.1	89.6	90.1	90.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 600	59.2	78.3	80.9	84.2	85.6	87.0	88.9	90.9	91.3	92.2	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 500	59.2	78.6	81.1	84.8	86.2	87.9	90.1	92.8	93.6	94.7	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 400	59.2	78.6	81.1	84.8	86.3	88.1	90.7	93.7	94.4	95.8	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 300	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.4	98.9	99.2	99.4	99.4	99.4	99.4	99.4
GE 200	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.6	99.0	99.6	99.6	99.6	99.6	99.6	99.6
GE 100	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.6	99.0	99.6	99.6	99.6	99.6	99.6	99.6
GE 0	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.6	99.0	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(IST): 1200-1400

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 7/16	GE 1/4	GE 0	
NO CEIL	42.3	47.0	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	47.1	
GE 20000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
GE 18000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
GE 16000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	
GE 14000	46.1	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
GE 12000	46.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	
GE 10000	47.3	54.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	
GE 9000	47.9	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	
GE 8000	50.2	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	
GE 7000	51.0	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	
GE 6000	51.2	58.6	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	
GE 5000	51.8	59.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	
GE 4500	53.6	61.7	62.2	62.2	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	
GE 4000	54.0	62.3	63.0	63.1	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	
GE 3500	54.8	63.7	64.3	64.4	64.7	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
GE 3000	55.7	65.0	65.8	66.1	66.5	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
GE 2500	60.4	71.6	72.3	72.7	73.1	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	
GE 2000	62.1	75.2	76.4	77.0	77.4	78.0	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	
GE 1800	62.8	76.7	77.9	78.4	79.0	79.6	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	
GE 1500	64.1	79.2	80.9	81.9	82.8	83.3	83.9	84.4	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	
GE 1200	65.2	81.0	83.0	84.3	85.6	86.2	86.8	87.3	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	
GE 1000	65.4	81.7	84.3	86.0	87.6	88.2	88.9	89.6	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
GE 900	65.8	82.3	85.0	86.8	88.4	89.1	89.8	90.6	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
GE 800	65.8	82.4	85.3	87.6	89.2	90.2	91.0	91.9	92.1	92.4	92.7	92.7	92.7	92.7	92.7	92.7	
GE 700	65.8	82.4	85.6	88.0	90.0	91.1	91.9	93.1	93.3	93.7	93.9	93.9	93.9	93.9	93.9	93.9	
GE 600	65.9	82.6	85.8	88.4	90.6	91.7	92.6	94.2	94.4	95.0	95.2	95.2	95.2	95.2	95.2	95.2	
GE 500	65.9	82.6	85.8	88.6	90.9	92.0	92.0	94.8	95.1	95.8	96.1	96.1	96.2	96.2	96.2	96.2	
GE 400	65.9	82.6	85.8	88.6	90.9	92.2	93.4	95.8	96.1	96.6	97.3	97.4	97.6	97.6	97.6	97.6	
GE 300	65.9	82.6	85.8	88.6	91.1	92.7	93.9	96.2	96.6	97.4	98.1	98.2	98.3	98.3	98.3	98.3	
GE 200	65.9	82.6	85.8	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4	
GE 100	65.9	82.6	85.8	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.6	99.6	
GE 0	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87
MONTH: APR HOURS(LST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	41.2	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 20000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 18000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 16000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 14000	46.8	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 12000	47.3	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 10000	47.9	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.6
GE 9000	48.1	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 8000	49.7	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	54.7	54.7	54.7
GE 7000	50.4	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 6000	50.4	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 5000	52.0	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 4500	54.6	60.6	61.0	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3
GE 4000	55.3	61.3	61.6	61.6	61.6	62.0	62.0	62.0	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2
GE 3500	57.8	63.8	64.3	64.3	64.6	64.6	64.6	64.7	64.8	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9
GE 3000	59.9	66.9	67.4	67.7	68.0	68.0	68.0	68.2	68.3	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6
GE 2500	63.9	72.6	73.3	73.6	73.6	74.0	74.2	74.3	74.4	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8
GE 2000	65.9	77.3	78.1	78.4	78.4	79.3	79.4	79.8	79.9	80.0	80.1	80.3	80.3	80.4	80.4	80.4	80.4
GE 1800	66.6	78.4	79.4	80.3	80.6	80.9	81.2	81.3	81.4	81.6	81.6	81.8	81.8	81.9	81.9	81.9	81.9
GE 1500	67.8	81.0	82.2	83.6	84.0	84.1	84.6	84.7	84.8	84.9	85.1	85.1	85.1	85.2	85.2	85.2	85.2
GE 1200	68.3	81.8	83.3	84.8	85.3	85.4	85.9	86.1	86.2	86.3	86.3	86.6	86.6	86.7	86.7	86.7	86.7
GE 1000	68.4	82.4	84.4	86.3	87.0	87.1	87.7	87.9	88.0	88.3	88.7	88.7	88.7	88.8	88.8	88.8	88.8
GE 900	69.0	83.3	85.3	87.2	88.1	88.2	88.8	89.0	89.1	89.6	90.0	90.0	90.0	90.1	90.1	90.1	90.1
GE 800	69.0	83.6	85.6	87.9	89.0	89.2	89.8	90.0	90.2	90.8	91.3	91.3	91.3	91.7	91.7	91.7	91.7
GE 700	69.0	84.1	86.3	88.6	90.2	90.7	91.4	91.8	92.0	92.6	93.1	93.3	93.3	93.4	93.4	93.4	93.4
GE 600	69.0	84.1	86.3	88.9	90.6	91.1	91.7	92.2	92.6	93.1	93.7	93.9	94.0	94.0	94.0	94.0	94.0
GE 500	69.0	84.2	86.4	89.1	91.2	91.6	92.6	93.0	93.4	94.2	94.9	95.2	95.2	95.3	95.3	95.3	95.3
GE 400	69.0	84.2	86.4	89.2	91.4	91.8	92.6	93.3	94.0	94.7	95.7	96.7	97.0	97.2	97.2	97.2	97.2
GE 300	69.0	84.2	86.4	89.2	91.4	91.8	92.6	93.8	94.7	95.4	96.6	97.9	98.2	98.4	98.7	98.7	98.7
GE 200	69.0	84.2	86.4	89.2	91.4	91.8	92.6	93.8	94.7	95.4	96.6	98.0	98.6	98.9	99.1	99.1	99.1
GE 100	69.0	84.2	86.4	89.2	91.4	91.8	92.6	93.8	94.7	95.4	96.7	98.2	98.8	99.1	99.4	99.8	99.8
GE 0	69.0	84.2	86.4	89.2	91.4	91.8	92.6	93.8	94.7	95.4	96.7	98.2	98.8	99.1	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1800-2000

CEILING FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GF 4	GE 3	GE 2 1/2	GE 2	GF 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	38.9	42.5	43.2	43.3	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 20000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 16000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 14000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 12000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 10000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 8000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 6000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 5000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 4000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 3000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 2000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 1000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 500	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 0	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS (LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	37.5	46.0	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 20000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 18000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 16000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 14000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 12000	41.1	49.3	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 10000	41.8	49.9	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 9000	41.9	50.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 8000	44.5	53.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3
GE 7000	44.8	53.8	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3
GE 6000	45.4	54.6	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1
GE 5000	46.7	57.1	58.1	58.3	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.8	58.8	58.8
GE 4500	47.3	60.9	62.2	62.4	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0	63.0
GE 4000	49.5	61.6	63.0	63.2	63.3	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9
GE 3500	51.3	63.5	65.1	65.4	65.6	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.1	66.1	66.1
GE 3000	54.3	68.6	70.2	70.9	71.1	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7
GE 2500	57.2	73.0	75.3	76.4	76.7	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4
GE 2000	58.2	75.1	77.7	79.4	80.0	80.4	80.7	80.7	80.7	80.7	80.8	80.8	80.9	80.9	80.9	80.9
GE 1800	58.6	76.4	78.9	80.6	81.3	81.6	81.9	81.9	81.9	82.1	82.2	82.2	82.3	82.3	82.3	82.3
GE 1500	59.2	77.6	80.4	82.4	83.1	83.6	83.9	83.9	83.9	84.3	84.5	84.5	84.6	84.6	84.6	84.6
GE 1200	59.3	77.9	80.8	82.9	83.7	84.4	84.7	84.9	84.9	85.3	85.5	85.5	85.6	85.6	85.6	85.6
GE 1000	59.8	78.8	81.8	84.2	84.9	85.7	86.2	86.4	86.5	87.0	87.2	87.2	87.3	87.3	87.3	87.3
GE 900	59.8	78.9	81.9	84.3	85.1	85.8	86.4	86.6	86.7	87.2	87.4	87.4	87.5	87.5	87.5	87.5
GE 800	60.0	79.5	82.6	85.1	85.6	86.7	87.3	87.6	87.7	88.2	88.4	88.4	88.5	88.5	88.5	88.5
GE 700	60.0	79.9	83.1	85.5	86.5	87.4	88.4	88.7	88.9	89.3	89.6	89.6	89.7	89.7	89.7	89.7
GE 600	60.2	80.2	83.5	86.0	87.3	88.4	89.0	89.7	90.9	91.3	91.6	91.6	91.8	91.8	91.8	91.8
GE 500	60.4	80.7	84.1	87.0	89.0	90.2	91.9	93.0	93.1	94.1	94.4	94.4	94.6	94.6	94.6	94.6
GE 400	60.5	81.0	84.5	87.5	89.7	91.0	93.2	94.6	94.9	96.1	96.5	96.5	96.8	96.8	96.8	96.8
GE 300	60.5	81.2	84.6	87.6	90.0	91.2	93.6	95.1	95.3	96.8	97.2	97.2	97.4	97.4	97.4	97.4
GE 200	60.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.8	97.9	98.4	98.4	98.7	98.7	98.9	98.9
GE 100	60.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.9	98.1	98.7	98.8	99.1	99.1	99.4	99.4
GE 0	60.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.9	98.1	98.7	98.8	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(IST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	10	6	5	4	3	2	1 1/2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4		
NO CEIL	39.7	46.2	46.8	47.3	47.1	47.1	47.2	47.2	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.3	
GE 20000	42.3	50.1	50.8	51.0	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.4	51.4	
GE 18000	42.3	50.1	50.8	51.0	51.1	51.2	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	
GE 16000	42.3	50.1	50.8	51.0	51.1	51.2	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	
GE 14000	42.4	50.2	50.9	51.1	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.5	51.5	51.5	51.5	
GE 12000	42.9	50.9	51.6	51.9	52.0	52.1	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	
GE 10000	43.7	51.9	52.6	52.9	53.0	53.1	53.2	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	
GE 9000	43.8	52.1	52.8	53.1	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.5	
GE 8000	45.8	54.5	55.4	55.7	55.8	55.9	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2	
GE 7000	46.5	55.6	55.5	56.8	57.0	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 6000	46.8	56.0	57.0	57.3	57.5	57.6	57.7	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	
GE 5000	47.6	57.3	58.3	58.7	58.9	59.1	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	
GE 4500	49.7	60.3	61.5	61.9	62.2	62.4	62.6	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	
GE 4000	50.0	60.6	62.0	62.4	62.7	63.0	63.2	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.5	
GE 3500	51.5	62.9	64.2	64.6	65.0	65.3	65.5	65.6	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.8	
GE 3000	53.2	65.5	67.0	67.6	68.1	68.4	68.6	68.7	68.7	68.8	68.9	68.9	68.9	68.9	68.9	68.9	
GE 2500	55.8	70.1	71.6	72.6	73.2	73.5	73.9	74.0	74.0	74.1	74.1	74.1	74.2	74.2	74.2	74.2	
GE 2000	57.5	73.5	75.5	76.6	77.3	77.6	78.2	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.7	78.7	
GE 1800	58.2	74.9	77.0	78.1	78.9	79.3	79.6	80.0	80.0	80.1	80.2	80.2	80.3	80.3	80.3	80.3	
GE 1500	59.3	76.8	79.1	80.5	81.4	81.9	82.5	82.8	82.8	83.0	83.1	83.2	83.2	83.2	83.2	83.3	
GE 1200	59.9	77.8	80.2	81.8	82.8	83.4	84.0	84.3	84.4	84.6	84.8	84.8	84.8	84.8	84.9	84.9	
GE 1000	60.3	78.5	81.3	83.1	84.2	84.9	85.5	85.9	86.0	86.3	86.5	86.5	86.5	86.5	86.6	86.6	
GE 900	60.4	78.8	81.7	83.5	84.7	85.4	86.1	86.5	86.6	86.9	87.2	87.2	87.2	87.2	87.3	87.3	
GE 800	60.5	79.3	82.2	84.2	85.5	86.3	87.0	87.6	87.8	88.2	88.5	88.5	88.6	88.6	88.6	88.6	
GE 700	60.5	79.7	82.7	84.9	86.3	87.2	88.1	88.9	89.0	89.5	89.9	89.9	90.0	90.0	90.0	90.0	
GE 600	60.6	79.9	83.0	85.4	87.0	88.1	89.1	90.2	90.4	91.0	91.4	91.4	91.5	91.5	91.5	91.5	
GE 500	60.6	80.1	83.4	85.9	87.9	89.1	90.3	91.6	91.9	92.6	93.2	93.3	93.5	93.5	93.5	93.6	
GE 400	60.7	80.4	83.7	86.4	88.5	90.0	91.5	93.2	93.7	94.6	95.3	95.5	95.7	95.8	95.8	95.9	
GE 300	60.7	80.4	83.8	86.6	88.8	90.4	92.2	94.1	94.6	95.7	96.6	96.8	97.0	97.2	97.2	97.3	
GE 200	60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.6	95.2	96.5	97.6	97.9	98.2	98.3	98.4	98.5	
GE 100	60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.7	95.3	96.7	97.9	98.3	98.7	99.0	99.2	99.4	
GE 0	60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.7	95.3	96.7	97.9	98.3	98.8	99.0	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7195

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1/2	GE 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	41.1	52.6	54.6	55.9	57.4	57.7	58.2	58.2	58.2	58.3	58.6	58.6	58.7	58.7	58.9	58.9
GE 20000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.2	62.3	62.3	62.5	62.5
GE 18000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.2	62.3	62.3	62.5	62.5
GE 16000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.2	62.3	62.3	62.5	62.5
GE 14000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.2	62.3	62.3	62.5	62.5
GE 12000	43.7	56.0	58.9	60.5	62.0	62.4	62.8	62.8	62.8	62.9	63.2	63.2	63.3	63.3	63.5	63.5
GE 10000	44.5	57.3	60.2	62.2	63.7	64.0	64.5	64.5	64.5	64.6	64.9	64.9	65.1	65.1	65.3	65.3
GE 9000	44.8	57.6	60.5	62.5	64.0	64.3	64.8	64.8	64.8	64.9	65.3	65.3	65.4	65.4	65.6	65.6
GE 8000	45.9	59.6	62.0	64.0	66.1	66.5	67.0	67.0	67.0	67.1	67.4	67.4	67.5	67.5	67.7	67.7
GE 7000	46.5	61.0	64.0	66.0	67.5	67.8	68.4	68.4	68.4	68.5	68.9	68.9	68.9	68.9	69.1	69.1
GE 6000	46.8	61.6	64.7	66.9	68.4	68.7	69.2	69.2	69.2	69.4	69.7	69.7	69.7	69.8	70.0	70.0
GE 5000	48.1	63.3	66.5	68.6	70.1	70.4	71.0	71.0	71.0	71.1	71.4	71.4	71.5	71.5	71.7	71.7
GE 4500	50.3	67.7	70.4	73.0	74.5	74.8	75.8	75.9	75.9	76.0	76.3	76.3	76.5	76.5	76.7	76.7
GE 4000	50.4	68.4	71.5	73.6	75.3	75.6	76.6	76.7	76.7	76.8	77.1	77.1	77.2	77.2	77.4	77.4
GE 3500	51.9	70.9	74.1	76.5	78.0	78.3	79.2	79.4	79.4	79.5	79.8	79.8	79.9	79.9	80.1	80.1
GE 3000	52.9	72.3	75.5	77.8	79.4	79.7	80.6	80.9	80.9	81.0	81.3	81.3	81.4	81.4	81.6	81.6
GE 2500	54.9	75.6	79.1	81.6	83.1	83.4	84.6	84.7	84.7	84.8	85.2	85.2	85.3	85.3	85.5	85.5
GE 2000	55.5	76.8	80.5	83.1	84.7	85.1	86.2	86.3	86.3	86.5	86.8	86.8	86.9	86.9	87.1	87.1
GE 1800	56.1	77.6	81.4	84.2	85.8	86.1	87.3	87.4	87.4	87.5	87.8	87.8	88.0	88.0	88.2	88.2
GE 1500	57.5	79.7	83.4	86.2	88.1	88.4	89.6	89.7	89.7	89.8	90.1	90.1	90.2	90.2	90.4	90.4
GE 1200	58.1	80.3	84.1	86.9	88.7	89.0	90.2	90.3	90.3	90.4	90.8	90.8	90.9	90.9	91.1	91.1
GE 1000	58.5	80.9	84.7	87.5	89.4	89.7	90.9	91.0	91.0	91.1	91.4	91.4	91.5	91.5	91.7	91.7
GE 900	58.5	80.9	84.7	87.5	89.4	89.7	90.9	91.0	91.0	91.1	91.4	91.4	91.5	91.5	91.8	91.8
GE 800	58.8	81.6	85.5	88.3	90.2	90.5	91.7	91.8	91.8	91.9	92.3	92.3	92.4	92.4	92.7	92.7
GE 700	59.0	81.9	86.0	88.8	90.8	91.1	92.3	92.4	92.4	92.5	92.8	92.8	92.9	92.9	93.2	93.2
GE 600	59.0	82.2	86.3	89.1	91.1	91.4	92.6	92.8	92.8	92.9	93.2	93.2	93.3	93.3	93.7	93.7
GE 500	59.0	82.2	86.3	89.1	91.1	91.4	92.7	92.9	92.9	93.0	93.3	93.3	93.4	93.4	93.8	93.8
GE 400	59.0	82.2	86.3	89.1	91.1	91.4	92.7	92.9	92.9	93.0	93.3	93.3	93.4	93.4	93.8	93.8
GE 300	59.0	82.2	86.3	89.1	91.1	91.4	92.7	92.9	92.9	93.0	93.3	93.3	93.4	93.4	93.8	93.8
GE 200	59.0	82.4	86.6	89.0	92.5	92.9	94.8	95.6	95.9	96.5	97.1	97.1	97.2	97.2	97.5	97.5
GE 100	59.0	82.4	86.6	89.0	92.5	92.9	94.8	95.9	96.1	96.7	97.8	97.8	98.2	98.3	98.7	98.9
GE 0	59.0	82.4	86.6	89.0	92.5	92.9	94.8	95.9	96.1	96.7	97.8	97.8	98.2	98.3	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS (LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES														
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	36.4	50.3	51.8	53.3	54.5	54.7	55.3	55.7	55.7	56.1	56.1	56.1	56.1	56.1	56.3
GE 20000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.5
GE 18000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.5
GE 16000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.5
GE 14000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.5
GE 12000	39.9	53.1	55.1	56.7	58.2	58.4	58.9	59.6	59.6	60.0	60.0	60.0	60.0	60.0	60.3
GE 10000	40.9	54.5	56.7	58.5	60.0	60.2	60.8	61.4	61.4	61.8	61.8	61.8	61.8	61.8	62.2
GE 9000	41.2	54.8	57.0	58.8	60.3	60.5	61.1	61.7	61.7	62.2	62.2	62.2	62.2	62.2	62.5
GE 8000	42.0	57.2	59.6	61.4	63.1	63.3	63.9	64.5	64.5	64.9	64.9	64.9	64.9	64.9	65.3
GE 7000	43.4	58.8	61.2	63.0	64.8	65.1	65.6	66.2	66.2	66.7	66.7	66.7	66.7	66.7	67.0
GE 6000	43.8	59.5	61.8	63.7	65.5	65.7	66.2	66.9	66.9	67.3	67.3	67.3	67.3	67.3	67.6
GE 5000	44.4	61.7	64.1	66.1	68.7	68.2	68.7	69.4	69.4	69.8	69.8	69.8	69.8	69.8	70.1
GE 4500	46.3	66.2	68.7	71.0	72.9	73.1	73.8	74.4	74.4	74.8	74.9	74.9	74.9	74.9	75.3
GE 4000	48.5	67.1	69.6	71.8	73.8	74.0	74.6	75.4	75.4	75.8	75.9	75.9	75.9	75.9	76.2
GE 3500	49.7	68.4	70.9	73.2	75.2	75.4	76.0	76.9	76.9	77.3	77.4	77.4	77.4	77.4	77.7
GE 3000	50.8	70.2	72.8	75.2	77.1	77.3	78.0	78.9	78.9	79.4	79.5	79.5	79.5	79.5	79.8
GE 2500	51.9	72.6	75.3	77.6	79.7	79.9	80.6	81.6	81.6	82.0	82.2	82.2	82.2	82.2	82.5
GE 2000	52.7	74.4	77.2	79.7	81.7	81.9	82.8	83.8	83.8	84.2	84.3	84.3	84.3	84.3	84.6
GE 1800	52.9	74.7	77.5	80.0	82.0	82.4	83.2	84.2	84.2	84.6	84.7	84.7	84.7	84.7	85.1
GE 1500	53.3	75.7	78.6	81.3	83.3	83.7	84.5	85.5	85.5	85.9	86.0	86.0	86.0	86.0	86.3
GE 1200	53.4	75.9	78.8	81.5	83.5	83.9	84.7	85.7	85.7	86.1	86.2	86.2	86.2	86.2	86.6
GE 1000	53.5	76.3	79.4	82.0	84.1	84.4	85.3	86.2	86.2	86.7	86.8	86.8	86.8	86.8	87.1
GE 900	53.5	76.9	81.0	82.8	84.8	85.2	86.0	87.0	87.0	87.4	87.5	87.5	87.5	87.5	87.8
GE 800	54.1	77.8	81.1	84.0	86.0	86.3	87.2	88.2	88.2	88.6	88.7	88.7	88.7	88.7	89.0
GE 700	54.8	78.6	81.8	84.4	86.4	87.2	88.2	89.1	89.1	89.6	89.7	89.7	89.7	89.7	90.0
GE 600	54.8	79.0	82.3	85.5	87.5	87.8	88.6	89.6	89.6	90.2	90.3	90.3	90.3	90.3	90.6
GE 500	54.8	79.4	82.8	86.0	88.3	88.6	89.7	91.0	91.0	91.4	91.5	91.5	91.5	91.5	91.8
GE 400	54.8	79.6	83.4	86.7	89.1	89.5	90.8	92.0	92.0	92.5	92.6	92.6	92.7	92.7	93.0
GE 300	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	93.7	94.5	94.8	94.8	94.9	94.9	95.4
GE 200	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	94.0	94.7	95.5	95.5	95.8	95.8	96.2
GE 100	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	94.1	95.1	96.0	96.2	96.7	96.8	97.4
GE 0	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	94.1	95.1	96.0	96.5	97.1	97.3	98.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	34.1	44.2	45.1	46.2	48.0	48.2	48.8	49.2	49.2	49.4	49.5	49.5	49.5	49.6	49.8	49.9
GE 20000	35.4	46.6	47.8	49.2	51.5	51.8	52.5	53.1	53.1	53.2	53.3	53.3	53.4	53.5	53.8	54.0
GE 18000	35.4	46.6	48.0	49.4	51.6	51.9	52.6	53.2	53.2	53.3	53.4	53.4	53.5	53.7	53.9	54.1
GE 16000	35.4	46.6	48.0	49.4	51.6	51.9	52.6	53.2	53.2	53.3	53.4	53.4	53.5	53.7	53.9	54.1
GE 14000	35.6	46.9	48.3	49.7	51.9	52.3	52.9	53.5	53.5	53.7	53.8	53.8	53.9	54.0	54.2	54.4
GE 12000	36.7	48.4	49.8	51.3	53.8	54.1	54.7	55.4	55.4	55.6	55.7	55.7	55.8	55.9	56.1	56.3
GE 10000	37.4	49.7	51.1	52.7	55.4	55.7	56.5	57.1	57.1	57.3	57.4	57.4	57.5	57.6	57.8	58.1
GE 9000	37.5	49.8	51.2	52.8	55.5	55.8	56.6	57.2	57.2	57.4	57.5	57.5	57.6	57.7	58.0	58.2
GE 8000	39.6	52.9	54.3	55.9	58.6	59.0	59.9	60.5	60.5	60.8	60.9	60.9	61.0	61.1	61.3	61.5
GE 7000	41.0	54.4	55.8	57.4	60.1	60.5	61.5	62.2	62.3	62.5	62.6	62.6	62.7	62.8	63.0	63.2
GE 6000	41.7	55.3	56.8	58.4	61.3	61.7	62.8	63.4	63.5	63.8	63.9	63.9	64.0	64.1	64.3	64.5
GE 5000	43.0	56.9	58.4	60.1	63.1	63.7	64.7	65.4	65.6	65.8	65.9	65.9	66.0	66.1	66.3	66.6
GE 4500	45.4	60.6	62.1	64.5	67.8	68.6	69.9	70.6	70.9	71.1	71.2	71.2	71.3	71.4	71.6	71.8
GE 4000	45.4	60.6	62.7	64.6	68.0	68.9	70.0	70.8	71.0	71.2	71.3	71.3	71.4	71.5	71.7	71.9
GE 3500	47.6	62.4	64.5	66.7	70.2	71.2	72.3	73.0	73.2	73.4	73.5	73.5	73.7	73.8	74.0	74.2
GE 3000	48.4	64.7	67.1	69.4	72.9	73.9	74.9	75.7	75.9	76.1	76.2	76.2	76.3	76.5	76.7	76.9
GE 2500	49.9	67.5	70.1	72.4	76.1	77.1	78.2	78.9	79.1	79.4	79.5	79.5	79.6	79.7	79.9	80.1
GE 2000	51.4	69.8	72.5	74.7	78.5	79.6	80.6	81.4	81.6	81.8	81.9	81.9	82.0	82.2	82.4	82.6
GE 1800	51.8	70.3	73.0	75.4	79.2	80.3	81.6	82.4	82.6	82.8	82.9	82.9	83.0	83.1	83.3	83.5
GE 1500	52.3	71.4	74.4	77.0	80.9	81.9	83.3	84.2	84.4	84.6	84.7	84.7	84.8	84.9	85.2	85.4
GE 1200	52.4	72.3	75.3	77.8	81.7	82.8	84.2	85.1	85.3	85.5	85.7	85.7	85.8	85.9	86.1	86.3
GE 1000	52.6	73.5	76.6	79.1	83.0	84.2	85.6	86.5	86.7	86.9	87.2	87.2	87.4	87.5	87.7	88.0
GE 900	53.1	74.2	77.2	79.8	83.7	84.6	86.2	87.1	87.3	87.5	87.8	87.8	88.1	88.2	88.4	88.6
GE 800	53.2	74.6	77.8	80.4	84.3	85.5	86.9	87.7	88.0	88.2	88.5	88.5	88.7	88.8	89.0	89.2
GE 700	53.2	74.8	78.1	80.6	84.5	85.7	87.1	88.0	88.2	88.4	88.7	88.7	88.9	89.0	89.2	89.5
GE 600	53.3	74.9	78.3	80.9	85.1	86.2	87.8	88.6	89.0	89.2	89.6	89.6	89.8	89.9	90.1	90.3
GE 500	53.3	74.9	78.3	81.0	85.5	86.4	88.5	89.6	89.8	90.0	90.3	90.3	90.5	90.6	90.9	91.1
GE 400	53.5	75.4	78.7	81.7	86.7	88.1	89.9	91.4	91.6	92.3	92.8	92.8	93.0	93.2	93.4	93.7
GE 300	53.5	75.4	78.7	81.7	86.8	88.6	90.8	92.4	92.8	93.9	94.6	94.6	94.8	95.1	95.3	95.7
GE 200	53.5	75.4	78.7	81.7	86.9	88.7	91.0	92.6	93.1	94.4	95.6	95.7	96.0	96.3	96.9	97.4
GE 100	53.5	75.4	78.7	81.7	86.9	88.7	91.0	92.7	93.2	94.6	96.0	96.2	96.9	97.3	98.1	99.0
GE 0	53.5	75.4	78.7	81.7	86.9	88.7	91.0	92.7	93.2	94.6	96.0	96.2	96.9	97.3	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES														
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	42.5	51.6	52.6	54.0	54.9	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 20000	44.6	54.1	55.7	57.3	58.3	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 18000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 16000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 14000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 12000	45.2	54.7	56.3	58.0	58.9	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 10000	46.0	56.0	57.7	59.4	60.4	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 9000	46.0	56.0	57.7	59.4	60.4	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 8000	47.6	58.5	60.4	62.3	63.5	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 7000	48.4	59.2	61.2	63.0	64.4	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 6000	49.7	59.8	61.8	63.7	65.1	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 5000	49.9	61.1	63.3	65.2	66.7	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 4500	51.9	62.9	65.9	68.6	70.3	70.6	70.6	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 4000	52.3	64.6	67.7	69.7	71.2	71.5	71.5	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 3500	52.8	65.5	68.9	71.0	72.6	72.9	72.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 3000	53.8	67.4	71.1	73.1	74.7	75.1	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 2500	56.0	70.5	74.4	76.4	78.5	78.9	78.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 2000	57.3	73.9	78.0	80.0	82.4	82.8	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 1800	58.8	75.8	80.0	82.7	84.5	84.9	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 1500	59.9	77.3	81.5	84.2	86.1	86.6	86.6	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1200	60.3	78.1	82.4	85.2	87.1	87.6	87.6	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1000	60.4	78.9	83.3	86.6	89.6	89.2	89.2	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 900	60.6	79.5	84.0	87.3	89.6	90.3	90.3	90.8	90.8	91.0	91.0	91.1	91.1	91.1	91.1	91.1
GE 800	60.9	80.0	84.8	88.4	90.9	91.7	91.8	92.4	92.4	92.6	92.6	92.7	92.7	92.7	92.7	92.7
GE 700	61.1	80.3	85.2	89.2	91.7	92.6	92.8	93.4	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 600	61.1	80.3	85.2	89.4	91.9	92.9	93.2	93.9	93.9	94.2	94.4	94.4	94.4	94.4	94.4	94.4
GE 500	61.1	80.3	85.3	89.8	92.6	93.6	94.4	95.2	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7
GE 400	61.1	80.3	85.4	90.2	93.3	94.5	95.3	96.1	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0
GE 300	61.1	80.3	85.4	90.2	93.3	94.5	95.3	96.1	96.1	97.0	97.7	97.7	97.7	97.7	97.7	97.7
GE 200	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.0	99.0	99.1	99.2	99.4	99.4
GE 100	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.2	99.2	99.4	99.6	100.0	100.0
GE 0	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.2	99.2	99.4	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 530

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: MAY HOURS(LST): 1200-1400

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	43.0	50.0	50.5	51.9	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
GE 20000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	
GE 18000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	
GE 16000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	
GE 14000	46.3	54.7	56.1	57.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	
GE 12000	46.6	55.3	56.7	58.1	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	
GE 10000	48.2	57.3	58.9	60.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	
GE 9000	48.3	57.4	59.0	60.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	
GE 8000	50.0	59.4	61.3	62.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	
GE 7000	50.9	60.9	62.8	64.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	
GE 6000	50.9	61.0	63.0	64.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
GE 5000	51.8	62.6	64.7	66.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	
GE 4500	53.8	65.5	67.7	69.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
GE 4000	54.7	67.3	69.6	71.4	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	
GE 3500	55.7	68.4	70.8	73.0	74.2	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	
GE 3000	57.1	70.5	73.1	75.4	76.7	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	
GE 2500	59.9	75.7	78.6	81.1	82.4	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
GE 2000	62.0	79.2	82.5	84.9	86.3	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	
GE 1800	62.7	80.3	83.7	86.3	87.7	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	
GE 1500	63.5	81.9	85.4	88.3	89.6	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	
GE 1200	64.2	83.1	86.8	89.7	91.3	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	
GE 1000	64.2	83.2	87.3	90.3	92.3	92.5	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	
GE 900	64.3	83.4	87.6	90.6	92.6	92.8	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	
GE 800	64.4	83.5	88.0	91.1	93.0	93.2	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	
GE 700	64.4	83.7	88.1	91.4	93.3	93.8	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	
GE 600	64.4	83.9	88.3	91.8	94.0	94.4	95.1	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	
GE 500	64.4	83.9	88.3	92.2	94.4	94.8	95.6	96.0	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
GE 400	64.4	83.9	88.3	92.3	94.5	95.1	96.2	97.0	97.3	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
GE 300	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.5	98.1	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	
GE 200	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.7	98.4	98.9	99.6	99.6	99.6	99.7	99.7	99.7	99.7	
GE 100	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.8	98.5	99.0	99.8	99.8	99.8	99.9	99.9	99.9	99.9	
GE 0	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.8	98.5	99.0	99.8	99.8	99.8	99.9	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS: 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CEIL	41.9	47.7	48.5	50.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3		
GE 20000	47.3	54.6	55.8	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 18000	47.3	54.6	55.8	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 16000	47.3	54.6	55.8	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 14000	47.3	54.6	55.8	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 12000	47.6	55.2	56.3	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 10000	49.6	58.2	59.4	61.3	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 9000	49.6	58.2	59.4	61.3	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 8000	50.5	59.6	61.0	62.9	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 7000	52.3	61.4	62.9	65.1	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 6000	52.7	61.9	63.4	65.6	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 5000	53.9	63.3	65.4	67.5	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 4500	57.2	68.5	71.6	73.0	73.5	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 4000	57.8	69.5	71.9	74.4	74.9	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 3500	58.6	71.6	74.1	76.9	77.4	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 3000	60.1	74.6	77.3	80.3	81.0	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 2500	63.1	79.2	82.0	85.5	86.2	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	64.5	81.5	84.5	88.3	89.0	89.4	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 1800	64.7	81.8	84.8	88.6	89.4	89.7	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1500	65.5	82.7	85.8	89.7	90.5	90.9	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1200	65.8	83.8	86.9	90.8	91.6	91.9	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1000	65.8	84.5	88.1	92.5	93.3	93.7	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 900	65.8	84.6	88.2	92.6	93.4	93.8	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 800	65.9	84.6	88.4	92.8	93.6	94.2	94.8	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	65.9	84.8	88.4	92.9	93.9	94.3	94.9	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	65.9	84.8	88.4	92.9	93.9	94.3	95.1	95.6	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 500	66.0	85.2	88.7	93.8	94.7	95.3	96.2	96.9	96.9	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 400	66.0	85.2	88.7	93.8	94.8	95.4	96.5	97.4	97.4	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3
GE 300	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.0
GE 200	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.2	99.4	99.4	99.4	99.4
GE 100	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.6	99.9	99.9	99.9	99.9
GE 0	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726350 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY FOURS(1ST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	44.5	51.6	52.9	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 20000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 18000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 16000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 14000	57.0	58.3	60.4	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 12000	51.4	60.0	62.4	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 10000	53.1	61.9	64.4	65.6	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 9000	53.1	61.9	64.4	65.6	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 8000	54.1	63.5	66.2	67.5	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3
GE 7000	54.8	64.6	67.3	68.6	68.9	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5
GE 6000	55.1	65.2	67.8	69.1	69.5	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0
GE 5000	55.9	67.1	69.8	71.1	71.4	71.7	71.7	71.9	71.9	71.9	72.0	72.0	72.2	72.2	72.2	72.3
GE 4500	58.2	71.4	74.3	75.6	76.1	76.5	76.5	76.7	76.7	76.7	76.8	76.9	77.0	77.0	77.0	77.1
GE 4000	58.8	72.5	75.5	77.0	77.4	77.8	77.8	78.1	78.1	78.2	78.3	78.4	78.4	78.4	78.4	78.5
GE 3500	60.4	74.8	79.0	79.7	80.2	80.6	80.6	80.9	80.9	81.0	81.1	81.2	81.2	81.2	81.2	81.3
GE 3000	60.9	75.7	79.0	81.1	81.6	82.2	82.2	82.4	82.4	82.5	82.6	82.7	82.7	82.7	82.7	82.8
GE 2500	62.7	79.7	83.5	85.7	86.5	87.0	87.0	87.2	87.2	87.3	87.5	87.6	87.7	87.7	87.7	87.8
GE 2000	63.9	81.4	85.5	87.8	88.7	89.4	89.4	89.6	89.6	89.7	89.9	90.0	90.1	90.1	90.1	90.2
GE 1800	64.2	82.0	86.3	88.6	89.8	90.4	90.4	90.6	90.6	90.8	91.0	91.1	91.2	91.2	91.2	91.3
GE 1600	64.5	82.6	86.9	89.4	90.3	91.0	91.0	91.3	91.3	91.5	91.7	91.8	92.0	92.0	92.0	92.2
GE 1400	64.7	83.0	87.3	90.1	91.1	91.7	91.7	92.0	92.0	92.3	92.5	92.6	92.8	92.8	92.8	92.9
GE 1200	64.8	83.3	87.6	90.5	91.6	92.3	92.4	92.9	92.9	93.1	93.3	93.4	93.7	93.7	93.7	93.8
GE 1000	64.8	83.3	87.6	90.6	91.7	92.4	92.5	93.0	93.0	93.2	93.4	93.5	93.8	93.8	93.8	93.9
GE 900	64.8	83.3	87.7	90.8	91.8	92.5	92.6	93.1	93.1	93.3	93.5	93.7	93.9	93.9	93.9	94.0
GE 800	64.9	83.4	87.8	91.0	92.0	92.7	92.8	93.4	93.4	93.7	93.9	94.0	94.2	94.2	94.2	94.3
GE 700	64.9	83.5	88.1	91.2	92.3	92.9	93.0	93.7	93.7	93.9	94.1	94.2	94.4	94.4	94.4	94.5
GE 600	64.9	83.7	88.3	91.6	92.8	93.7	93.8	94.7	94.7	95.1	95.4	95.5	95.8	95.8	95.8	95.9
GE 500	64.9	83.8	88.4	91.9	93.2	94.1	94.4	95.5	95.5	96.2	96.8	96.9	97.2	97.2	97.2	97.3
GE 400	64.9	83.8	88.4	91.9	93.7	94.6	94.9	96.2	96.3	97.3	98.0	98.1	98.4	98.5	98.5	98.6
GE 300	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	98.9	99.0	99.0	99.1
GE 200	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	99.0	99.1	99.1	99.5
GE 100	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	99.0	99.1	99.1	99.5
GE 0	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	99.1	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/FLTC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(IST): 2100-2300

CEILING		VISIBILITY IN STATUTE MILES																	
IN FEET		1	GE 10	GE 6	GE 5	GE 4	GE 3	2	CC 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	3/4	5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	41.5	51.6	52.5	54.9	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 20000	1	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 18000	1	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 16000	1	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 14000	1	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 12000	1	45.1	56.3	58.6	60.2	61.4	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 10000	1	46.7	58.3	60.5	62.3	63.4	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 9000	1	47.3	58.9	61.2	62.9	64.1	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 8000	1	48.6	60.8	62.4	64.2	65.3	65.8	65.8	65.8	65.8	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 7000	1	49.2	61.5	64.2	65.9	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 6000	1	49.8	62.3	64.9	66.7	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 5000	1	50.4	64.3	67.2	69.0	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 4500	1	52.9	66.7	71.9	73.6	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 4000	1	53.8	69.7	73.0	74.8	76.3	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 3500	1	55.8	72.9	76.3	78.3	79.8	80.3	80.3	80.3	80.3	80.3	80.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 3000	1	56.1	74.3	78.0	80.1	81.6	82.2	82.4	82.4	82.4	82.4	82.4	82.6	82.7	82.7	82.7	82.7	82.7	82.7
GE 2500	1	57.3	77.0	80.9	83.2	84.7	85.3	85.6	85.6	85.6	85.6	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 2000	1	59.2	79.9	84.1	86.6	88.1	88.6	88.9	88.9	88.9	88.9	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2
GE 1800	1	59.6	80.4	84.8	87.4	88.9	89.5	89.8	89.8	89.8	89.8	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 1500	1	59.7	80.6	85.2	88.1	89.7	90.2	90.5	90.5	90.5	90.5	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9
GE 1200	1	59.9	80.9	85.5	88.5	90.1	90.6	91.0	91.0	91.0	91.0	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4
GE 1000	1	60.2	81.3	86.0	89.0	90.6	91.2	91.5	91.5	91.5	91.5	91.6	91.8	91.9	91.9	91.9	91.9	91.9	91.9
GE 900	1	60.2	81.4	86.2	89.2	90.9	91.4	91.7	91.7	91.7	91.7	91.8	92.0	92.2	92.2	92.2	92.2	92.2	92.2
GE 800	1	60.3	81.7	86.8	89.8	91.5	92.0	92.4	92.4	92.4	92.4	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 700	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 600	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 500	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 400	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 300	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 200	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 100	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 0	1	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: MAY HOURS(IST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	40.9	50.0	51.2	52.5	53.5	53.7	53.9	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.3	54.3	
GE 20000	43.8	53.6	55.6	57.1	58.3	58.5	58.7	58.8	58.8	58.9	59.0	59.0	59.0	59.0	59.1	59.2	
GE 18000	43.8	53.8	55.7	57.2	58.3	58.5	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.1	59.1	59.2	
GE 16000	43.8	53.8	55.7	57.2	58.3	58.5	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.1	59.1	59.2	
GE 14000	43.8	53.5	55.7	57.2	58.4	58.6	58.6	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.2	59.3	
GE 12000	44.5	54.9	56.8	58.3	59.5	59.7	59.9	60.1	60.1	60.1	60.2	60.2	60.2	60.3	60.3	60.4	
GE 10000	45.8	56.7	58.6	60.3	61.5	61.7	62.0	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.4	62.5	
GE 9000	46.0	56.8	58.8	60.5	61.7	61.9	62.2	62.3	62.3	62.4	62.5	62.5	62.5	62.5	62.6	62.7	
GE 8000	47.4	58.9	61.1	62.6	64.1	64.4	64.6	64.8	64.9	64.9	65.0	65.0	65.0	65.0	65.1	65.2	
GE 7000	48.3	60.2	62.4	64.2	65.5	65.8	66.0	66.2	66.2	66.3	66.4	66.4	66.4	66.4	66.5	66.6	
GE 6000	48.7	60.8	63.1	64.8	66.2	66.4	66.7	66.9	66.9	67.0	67.1	67.1	67.1	67.1	67.2	67.3	
GE 5000	49.7	62.5	64.9	66.7	68.1	68.4	68.7	68.9	68.9	69.0	69.1	69.1	69.1	69.1	69.2	69.3	
GE 4500	52.2	66.6	69.2	71.2	72.6	73.0	73.3	73.6	73.6	73.8	73.8	73.9	73.9	73.9	74.0	74.1	
GE 4000	52.7	67.5	70.2	72.2	73.7	74.1	74.4	74.7	74.7	74.8	74.9	74.9	75.0	75.0	75.1	75.1	
GE 3500	54.0	69.4	72.2	74.4	75.9	76.3	76.7	77.0	77.0	77.2	77.3	77.3	77.3	77.3	77.4	77.5	
GE 3000	55.0	71.2	74.2	76.5	78.1	78.5	78.9	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.6	79.7	
GE 2500	57.0	74.7	79.0	80.5	82.2	82.6	83.1	83.4	83.4	83.5	83.7	83.7	83.7	83.7	83.8	83.9	
GE 2000	58.3	77.1	80.6	83.2	84.9	85.4	85.9	86.2	86.3	86.4	86.5	86.5	86.5	86.5	86.6	86.7	
GE 1800	58.9	77.9	81.5	84.2	85.4	86.4	86.9	87.3	87.3	87.4	87.5	87.6	87.6	87.6	87.7	87.8	
GE 1500	59.5	79.0	82.6	85.5	87.3	87.8	88.4	88.7	88.8	88.9	89.0	89.0	89.1	89.1	89.2	89.3	
GE 1200	59.9	79.7	83.4	86.3	88.1	88.6	89.2	89.6	89.6	89.8	89.9	89.9	89.9	90.0	90.1	90.1	
GE 1000	60.0	80.3	84.1	87.2	89.1	89.6	90.2	90.6	90.7	90.9	91.0	91.0	91.1	91.1	91.2	91.3	
GE 900	60.1	80.5	84.4	87.6	89.5	90.0	90.6	91.0	91.1	91.3	91.4	91.4	91.5	91.5	91.6	91.7	
GE 800	60.3	80.9	85.0	88.2	90.2	90.8	91.4	91.8	91.9	92.1	92.2	92.2	92.3	92.3	92.4	92.5	
GE 700	60.5	81.2	85.3	88.0	90.6	91.2	91.9	92.4	92.5	92.7	92.8	92.9	92.9	92.9	93.1	93.1	
GE 600	60.5	81.3	85.5	88.9	91.0	91.6	92.3	92.9	92.9	93.2	93.3	93.3	93.4	93.4	93.5	93.6	
GE 500	60.5	81.4	85.7	89.2	91.4	92.1	93.0	93.7	93.8	94.0	94.2	94.2	94.3	94.3	94.4	94.5	
GE 400	60.5	81.5	85.8	89.6	92.0	92.6	93.5	94.8	94.9	95.3	95.6	95.7	95.8	95.8	95.9	96.0	
GE 300	60.5	81.6	85.9	89.8	92.3	93.2	94.5	95.6	95.8	96.5	97.0	97.0	97.1	97.2	97.3	97.4	
GE 200	60.5	81.6	86.0	89.8	92.4	93.4	94.7	95.9	96.3	97.1	97.8	97.9	98.1	98.2	98.3	98.5	
GE 100	60.5	81.6	86.0	89.8	92.4	93.4	94.7	96.0	96.3	97.2	98.1	98.2	98.6	98.7	99.0	99.3	
GE 0	60.5	81.6	86.0	89.8	92.4	93.4	94.7	96.0	96.3	97.2	98.1	98.3	98.6	98.8	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726353 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	45.6	55.9	50.9	60.2	61.3	61.4	61.9	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2
GE 20000		47.2	58.1	61.1	62.4	63.7	63.6	64.2	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.6
GE 18000		47.2	58.1	61.1	62.4	63.7	63.8	64.2	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.6
GE 16000		47.2	58.1	61.1	62.4	63.7	63.8	64.2	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.6
GE 14000		47.2	58.1	61.1	62.4	63.7	63.8	64.2	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.6
GE 12000		47.9	59.3	62.3	63.7	64.9	65.0	65.4	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 10000		50.1	61.8	64.8	66.1	67.3	67.4	67.9	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2
GE 9000		52.2	61.9	64.9	66.2	67.4	67.6	68.0	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3
GE 8000		51.4	64.4	67.0	69.1	70.3	70.4	70.9	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2
GE 7000		52.1	65.6	68.9	70.0	71.8	71.9	72.3	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7
GE 6000		53.2	67.1	70.6	72.6	73.6	73.9	74.3	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7
GE 5000		54.9	69.1	72.8	74.9	76.4	76.6	77.0	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3
GE 4500		57.6	72.8	76.0	78.8	80.6	80.7	81.3	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7
GE 4000		57.6	72.8	76.0	79.0	80.9	81.0	81.8	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1
GE 3500		58.6	75.4	79.3	81.9	83.8	83.9	84.9	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2
GE 3000		59.0	76.6	80.4	83.2	85.2	85.3	86.7	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0
GE 2500		59.4	77.4	81.4	84.2	86.2	86.6	87.9	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2
GE 2000		60.1	78.8	82.9	85.9	87.9	88.2	89.6	89.8	89.8	90.0	90.0	90.0	90.1	90.1	90.1	90.1
GE 1800		60.7	79.8	83.9	86.9	88.9	89.2	90.6	90.8	90.8	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 1500		60.9	80.1	84.2	87.2	89.3	89.7	91.0	91.2	91.2	91.4	91.6	91.6	91.7	91.7	91.7	91.7
GE 1200		61.1	80.7	84.8	87.8	90.0	90.3	91.7	91.9	91.9	92.1	92.2	92.2	92.3	92.3	92.3	92.3
GE 1000		61.3	81.0	85.1	88.3	90.6	90.9	92.2	92.4	92.4	92.7	92.8	92.8	92.9	92.9	92.9	92.9
GE 900		61.6	81.3	85.4	88.7	90.9	91.2	92.6	92.8	92.8	93.0	93.1	93.1	93.2	93.2	93.2	93.2
GE 800		61.8	82.0	86.1	89.3	91.7	92.0	93.3	93.6	93.6	93.8	93.9	93.9	94.0	94.0	94.0	94.0
GE 700		61.9	82.4	86.7	90.0	92.3	92.7	94.0	94.2	94.2	94.4	94.6	94.6	94.7	94.7	94.7	94.7
GE 600		61.9	82.4	86.7	90.2	92.6	92.9	94.2	94.4	94.4	94.7	94.8	94.8	94.9	94.9	94.9	94.9
GE 500		62.0	82.8	87.0	90.6	92.9	93.2	94.6	94.8	94.8	95.0	95.1	95.1	95.2	95.2	95.2	95.2
GE 400		62.2	83.1	87.6	91.2	93.6	94.0	95.3	95.6	95.6	95.8	96.0	96.0	96.1	96.1	96.1	96.1
GE 300		62.3	83.3	87.9	91.6	93.9	94.3	95.8	96.1	96.1	96.3	96.7	96.7	96.8	96.8	96.8	96.8
GE 200		62.3	83.3	87.9	91.6	94.0	94.4	96.8	97.4	97.4	97.9	98.3	98.3	98.4	98.4	98.4	98.4
GE 100		62.3	83.3	87.9	91.6	94.0	94.4	96.8	97.4	97.4	97.9	98.6	98.6	98.8	98.9	99.6	99.6
GE 0		62.3	83.3	87.9	91.6	94.0	94.4	96.8	97.4	97.4	97.9	98.6	98.6	98.8	98.9	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	2	1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	38.0	49.6	51.3	52.6	54.1	54.2	54.8	55.3	55.4	56.1	56.3	56.3	56.6	56.6	56.8	56.9	
GE 20000	1	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	59.8	60.0	60.0	60.2	60.3	
GE 18000	1	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	59.8	60.0	60.0	60.2	60.3	
GE 16000	1	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	59.8	60.0	60.0	60.2	60.3	
GE 14000	1	40.1	52.7	54.8	56.0	57.6	57.7	58.2	59.0	59.2	59.9	60.1	60.1	60.3	60.3	60.6	60.7	
GE 12000	1	41.2	54.2	56.3	57.6	59.2	59.3	59.9	60.7	60.9	61.6	61.8	61.8	62.0	62.0	62.2	62.3	
GE 10000	1	42.4	55.4	57.6	59.8	60.6	60.7	61.2	62.0	62.2	62.9	63.1	63.1	63.3	63.3	63.6	63.7	
GE 9000	1	42.4	55.7	57.8	59.0	60.8	60.9	61.4	62.2	62.4	63.1	63.3	63.3	63.6	63.6	63.8	63.9	
GE 8000	1	45.0	59.7	62.0	63.2	65.0	65.2	65.8	66.6	66.8	67.4	67.7	67.7	67.9	67.9	68.1	68.2	
GE 7000	1	45.9	61.2	63.6	64.9	66.7	66.9	67.6	68.3	68.6	69.2	69.4	69.4	69.7	69.7	69.9	70.0	
GE 6000	1	46.1	61.9	64.4	66.3	67.9	68.1	68.9	69.7	69.9	70.6	70.8	70.8	71.0	71.0	71.2	71.3	
GE 5000	1	47.1	63.0	66.3	68.6	70.6	70.8	71.6	72.6	72.8	73.6	73.9	73.8	74.0	74.0	74.3	74.4	
GE 4500	1	49.2	67.1	70.1	72.6	74.6	74.8	75.6	76.6	76.8	77.6	77.8	77.8	78.0	78.0	78.3	78.4	
GE 4000	1	49.7	67.6	70.6	73.2	75.2	75.4	76.2	77.2	77.4	78.2	78.4	78.4	78.7	78.7	79.0	79.1	
GE 3500	1	50.6	69.4	72.4	75.1	77.1	77.3	78.1	79.1	79.3	80.1	80.3	80.3	80.6	80.6	80.9	81.0	
GE 3000	1	51.2	71.1	74.3	77.3	79.4	79.7	80.6	81.6	81.8	82.7	82.9	82.9	83.1	83.1	83.4	83.6	
GE 2500	1	51.9	72.0	75.2	78.2	80.3	80.6	81.6	82.6	82.8	83.7	83.9	83.9	84.2	84.2	84.6	84.7	
GE 2000	1	52.4	73.7	77.0	80.0	82.1	82.3	83.6	84.6	84.8	85.9	86.1	86.1	86.4	86.4	86.8	86.9	
GE 1800	1	52.6	74.2	77.6	80.6	82.7	82.9	84.1	85.1	85.3	86.4	86.7	86.7	87.0	87.0	87.3	87.4	
GE 1500	1	53.2	75.4	78.8	81.9	84.1	84.3	85.6	86.6	86.8	88.0	88.2	88.2	88.6	88.6	88.9	89.0	
GE 1200	1	53.8	76.0	79.3	82.6	84.8	85.0	86.2	87.2	87.4	88.7	88.9	88.9	89.2	89.2	89.6	89.7	
GE 1000	1	54.0	76.6	80.0	83.2	85.4	85.7	87.1	88.1	88.3	89.7	89.9	89.9	90.3	90.3	90.7	90.8	
GE 900	1	54.4	77.2	80.6	84.0	86.2	86.4	87.9	88.9	89.1	90.4	90.7	90.7	91.1	91.1	91.4	91.6	
GE 800	1	54.8	77.6	81.1	84.4	86.8	87.0	88.4	89.4	89.7	91.0	91.2	91.2	91.7	91.7	92.0	92.1	
GE 700	1	55.2	78.2	81.9	85.6	88.0	88.2	89.7	90.7	90.9	92.2	92.4	92.4	92.9	92.9	93.2	93.3	
GE 600	1	55.3	78.6	82.2	85.9	88.3	88.6	90.0	91.0	91.2	92.6	92.8	92.8	93.2	93.2	93.6	93.7	
GE 500	1	55.6	79.0	82.7	86.6	89.1	89.3	90.9	91.9	92.1	93.4	93.7	93.7	94.1	94.1	94.4	94.6	
GE 400	1	55.6	79.1	83.1	87.1	89.8	90.0	91.6	92.9	93.1	94.4	94.7	94.7	95.1	95.1	95.4	95.6	
GE 300	1	55.6	79.1	83.2	87.2	89.9	90.2	91.9	93.3	93.6	95.0	95.4	95.4	96.0	96.0	96.3	96.4	
GE 200	1	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	95.9	96.3	96.3	97.0	97.0	97.3	97.4	
GE 100	1	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	96.0	96.6	96.7	97.7	97.9	98.6	99.1	
GE 0	1	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	96.0	96.6	96.7	97.7	98.0	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	38.3	49.0	50.3	50.9	52.2	52.7	53.4	53.9	54.1	54.3	54.4	54.4	54.4	54.4	54.4	54.4
GE 20000	39.7	51.4	53.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3
GE 18000	39.7	51.4	53.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3
GE 16000	39.7	51.4	53.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3
GE 14000	39.8	51.7	53.3	53.9	55.3	55.8	56.6	57.0	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6
GE 12000	40.2	52.2	53.9	54.4	55.9	56.3	57.1	57.6	57.8	58.0	58.1	58.1	58.1	58.1	58.1	58.1
GE 10000	42.3	55.1	56.9	57.3	58.4	59.2	60.0	60.6	60.6	61.0	61.1	61.1	61.1	61.1	61.1	61.1
GE 9000	42.8	55.8	57.4	58.0	59.4	59.9	60.7	61.2	61.4	61.7	61.8	61.8	61.8	61.8	61.8	61.8
GE 8000	45.0	59.4	61.1	61.9	63.6	64.2	65.0	65.6	65.8	66.0	66.2	66.2	66.2	66.2	66.2	66.2
GE 7000	46.6	61.2	62.9	63.8	65.4	66.1	67.0	67.7	67.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3
GE 6000	47.2	62.1	63.9	64.9	66.6	67.2	68.1	68.8	69.0	69.2	69.4	69.4	69.4	69.4	69.4	69.4
GE 5000	48.4	64.2	66.0	67.2	69.0	69.7	70.7	71.4	71.7	71.9	72.2	72.2	72.2	72.2	72.2	72.2
GE 4500	50.6	67.2	69.1	70.6	72.4	73.1	74.1	75.0	75.2	75.4	75.8	75.8	75.8	75.8	75.8	75.8
GE 4000	50.8	67.7	69.6	71.0	72.9	73.6	74.6	75.4	75.7	75.9	76.2	76.2	76.2	76.2	76.2	76.2
GE 3500	51.9	69.1	71.2	72.5	74.7	75.3	76.4	77.4	77.7	77.9	78.2	78.2	78.2	78.2	78.2	78.2
GE 3000	52.2	69.8	71.9	73.4	75.3	76.0	77.1	78.1	78.3	78.7	79.1	79.1	79.1	79.1	79.1	79.1
GE 2500	52.9	71.1	73.2	74.8	77.0	77.8	79.1	80.1	80.3	80.7	81.3	81.3	81.3	81.3	81.3	81.3
GE 2000	53.5	72.9	75.2	76.9	79.1	79.9	81.2	82.2	82.4	82.8	83.4	83.4	83.4	83.4	83.4	83.4
GE 1800	54.3	73.7	76.1	77.8	80.1	81.0	82.3	83.3	83.6	83.9	84.6	84.6	84.6	84.6	84.6	84.6
GE 1500	54.9	74.8	77.6	79.4	81.9	83.0	84.3	85.3	85.6	85.9	86.6	86.6	86.6	86.6	86.6	86.6
GE 1200	55.0	75.4	78.3	80.3	83.0	84.1	85.4	86.4	86.7	87.0	87.7	87.7	87.7	87.7	87.7	87.7
GE 1000	56.0	77.1	80.1	82.1	84.8	86.1	87.7	88.8	89.0	89.3	90.0	90.0	90.2	90.2	90.2	90.2
GE 900	56.1	77.3	80.6	82.6	85.2	86.6	88.1	89.2	89.4	89.8	90.4	90.4	90.7	90.7	90.7	90.7
GE 800	56.6	78.2	81.4	83.4	86.3	87.7	89.2	90.3	90.6	90.9	91.6	91.6	91.8	91.8	91.8	91.8
GE 700	56.6	78.3	81.6	83.6	86.7	88.1	89.7	90.9	91.1	91.4	92.1	92.1	92.3	92.3	92.3	92.3
GE 600	56.6	78.6	81.8	83.9	87.1	88.6	90.1	91.4	91.7	92.0	92.7	92.7	92.9	92.9	92.9	92.9
GE 500	56.6	78.8	82.0	84.1	87.4	89.1	90.7	92.4	92.7	93.0	93.7	93.7	93.9	93.9	93.9	94.0
GE 450	56.6	78.8	82.0	84.2	87.7	89.3	91.1	93.1	93.3	94.1	94.8	94.8	95.1	95.1	95.2	95.3
GE 400	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.7	93.9	94.9	95.7	95.9	96.7	96.7	96.8	97.0
GE 300	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.6	94.0	95.4	96.6	97.0	97.9	97.9	98.0	98.4
GE 200	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.9	94.1	95.7	96.8	97.2	98.4	98.7	99.0	99.8
GE 100	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.9	94.1	95.7	96.8	97.2	98.4	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 7/16	GE 1/4
NO CLIL	47.9	54.0	55.2	55.6	56.4	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 20000	49.7	57.0	58.3	58.9	59.0	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 16000	49.7	57.0	58.3	58.9	59.6	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 14000	49.7	57.0	58.3	58.9	59.6	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 12000	49.9	57.2	58.5	59.1	59.9	59.8	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 10000	50.7	58.0	59.3	60.0	60.7	60.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 8000	52.6	60.4	61.8	62.4	63.1	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 7000	52.6	60.4	61.8	62.4	63.1	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 6000	54.3	62.8	64.3	65.0	66.3	66.3	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 5000	54.6	63.6	65.2	66.6	67.3	67.3	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 4000	55.0	64.6	66.3	67.7	68.4	68.4	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 3000	56.2	66.8	68.6	69.7	70.7	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 2500	57.9	68.9	70.8	72.3	73.1	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 2000	59.5	69.9	71.9	73.4	74.2	74.2	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 1800	60.1	72.1	74.2	75.8	76.6	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 1600	60.9	72.2	75.3	77.1	78.0	78.0	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 1400	62.0	75.7	77.8	79.6	80.7	80.7	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 1200	64.4	78.4	80.7	82.7	83.8	83.8	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 1000	65.2	79.2	81.6	83.9	84.9	85.0	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 900	66.9	81.3	84.1	86.1	87.2	87.3	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 800	69.0	83.2	85.0	86.3	87.1	87.2	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 700	68.8	84.6	87.4	89.5	90.5	91.0	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 600	69.0	85.7	88.6	90.9	92.0	92.1	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 500	69.2	86.8	89.5	92.3	93.6	93.8	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 400	69.3	87.0	90.0	92.7	93.9	94.3	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 300	69.3	87.1	90.1	92.8	94.2	94.7	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 200	69.3	87.1	90.1	92.8	94.3	94.7	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 100	69.3	87.2	90.2	93.1	94.9	95.7	97.6	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1
GE 0	69.3	87.2	90.2	93.1	94.9	95.7	97.6	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAF/CLAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 776392 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS/EST: 1200-1400

CEILING FEET	VISIBILITY IN STATUTE MILES															
	1/8	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4
NO CEIL	47.4	51.4	57.2	58.4	53.2	73.2	57.2	73.2	53.2	73.2	57.2	53.2	57.2	53.2	53.2	53.2
GE 2000	53.8	59.4	61.2	61.2	61.3	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 1800	57.9	59.4	61.2	61.2	61.3	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.2
GE 1600	51.8	59.4	61.2	61.2	61.3	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 1400	54.2	59.4	61.2	61.2	61.3	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.6
GE 1200	56.1	60.6	61.6	62.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 1000	56.0	62.1	67.2	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 900	56.1	62.2	67.2	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 800	56.1	62.2	67.2	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 700	56.1	62.2	67.2	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 600	56.9	66.9	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 500	69.9	68.1	67.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 400	67.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 300	67.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 200	65.6	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 100	67.1	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 2000	69.4	68.1	67.2	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 1800	72.5	65.3	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1600	72.5	65.3	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1400	70.4	68.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1200	75.2	69.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1000	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 900	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 800	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 700	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 600	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 500	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 400	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 300	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 200	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 100	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 2000	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1800	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1600	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1400	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1200	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 1000	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 900	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 800	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 700	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 600	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 500	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 400	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 300	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 200	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 100	75.4	69.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2

TOTAL NUMBER OF OBSERVATIONS: 407

AD-A187 849

ALPENA MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE

3/3

WEATHER OBSERVATIONS PARTS A-F(U) AIR FORCE

ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

SCOTT A..

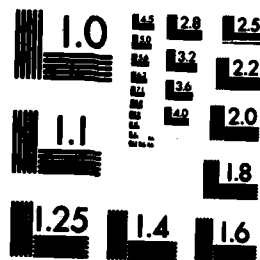
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UNCLASSIFIED

OCT 87 USAFETAC DS-87/859

END
DATE
1987
8



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

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 1500-1700

CEILING IN FEET	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17	GE 18	GE 19	GE 20
FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NO CELL	50.0	52.9	53.7	54.9	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 20000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 18000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 16000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 14000	55.6	59.4	60.6	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 12000	56.6	60.3	61.4	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 10000	57.8	61.7	62.8	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 9000	57.8	61.7	62.8	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 8000	59.7	64.9	66.0	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 7000	60.9	66.3	67.4	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 6000	61.6	67.2	68.3	70.0	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 5000	63.6	69.4	70.6	72.7	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 4500	66.7	72.9	74.0	76.2	77.0	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 4000	66.6	74.1	75.2	77.6	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 3500	68.7	76.6	78.0	80.3	81.1	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 3000	70.0	79.7	81.3	83.7	84.4	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 2500	72.8	83.3	85.1	87.9	89.0	89.1	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 2000	74.2	86.1	88.0	91.2	92.3	92.4	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1800	74.9	87.1	89.0	92.3	93.7	93.8	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1600	75.4	88.0	90.4	94.1	95.6	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1400	75.8	88.3	90.9	94.0	96.1	96.3	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1200	76.0	88.9	91.4	95.2	96.9	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000	76.0	88.9	91.6	95.3	97.1	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	76.0	89.0	91.7	95.4	97.3	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	76.0	89.0	91.7	95.6	97.4	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 700	76.0	89.1	91.8	95.7	97.6	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 600	76.0	89.3	92.2	96.1	98.0	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	76.0	89.3	92.2	96.2	98.1	98.6	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 0	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-2000

CEILING FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	51.7	57.0	57.7	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 20000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 18000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 16000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 14000	56.1	62.3	63.0	65.1	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 12000	57.0	63.8	64.4	66.6	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 10000	59.2	66.3	67.0	69.2	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 9000	59.2	66.3	67.0	69.3	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 8000	61.6	69.4	70.2	72.7	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 7000	62.6	71.1	71.9	74.3	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 6000	63.0	71.8	72.6	75.2	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 5000	63.9	73.2	74.2	77.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 4500	66.2	76.7	76.1	81.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 4000	66.8	77.6	79.1	82.8	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3500	67.8	79.2	81.1	84.9	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3000	69.7	81.8	83.8	87.6	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 2500	70.9	83.8	86.0	90.2	91.7	91.8	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0
GE 2000	71.9	85.1	87.4	91.7	93.2	93.4	93.6	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7
GE 1800	72.3	85.7	88.0	92.2	94.1	94.3	94.4	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500	72.9	86.7	89.0	93.3	95.3	95.6	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
GE 1200	73.0	87.1	89.4	93.8	95.8	96.0	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
GE 1000	73.0	87.1	89.4	93.8	95.8	96.1	96.6	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9
GE 900	73.0	87.3	89.6	94.2	96.2	96.6	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3
GE 800	73.0	87.4	89.9	94.3	96.3	96.7	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4
GE 700	73.0	87.8	90.2	94.8	96.9	97.2	97.7	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0
GE 600	73.0	87.8	90.2	94.9	97.0	97.6	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
GE 500	73.0	87.9	90.3	95.0	97.2	97.8	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	73.0	87.9	90.3	95.0	97.3	98.0	98.7	99.2	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	100.0	100.0
GE 0	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS (LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	51.0	57.4	60.0	62.1	62.8	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 20000	54.1	61.1	64.0	66.4	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 18000	54.1	61.1	64.0	66.4	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 16000	54.1	61.1	64.0	66.4	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 14000	54.1	61.1	64.0	66.4	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 12000	54.7	61.9	64.8	67.2	67.9	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 10000	55.6	63.8	66.8	69.2	69.9	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 9000	55.6	63.8	66.8	69.2	70.0	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 8000	57.8	66.9	69.9	72.8	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 7000	58.4	68.2	71.2	73.9	74.7	74.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 6000	59.2	69.1	72.1	74.9	75.8	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 5000	60.7	70.9	74.0	76.8	77.8	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 4500	62.8	74.4	77.9	80.9	81.9	81.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 4000	63.1	74.6	78.4	81.4	82.7	82.7	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 3500	64.8	77.1	81.1	84.4	85.7	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 3000	65.9	78.9	83.0	86.8	88.0	88.0	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 2500	66.6	80.0	84.3	88.2	89.4	89.4	90.0	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2000	67.1	80.8	85.2	89.4	90.7	90.7	91.4	92.3	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1800	67.3	81.1	85.6	89.8	91.0	91.0	91.8	92.7	92.7	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1500	67.6	81.8	86.2	90.4	91.9	91.9	92.7	93.7	93.9	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1200	67.6	81.5	86.3	90.6	92.0	92.0	92.9	93.9	94.2	94.2	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1000	67.7	82.2	86.8	91.0	92.4	92.4	93.3	94.3	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 900	67.7	82.3	87.0	91.3	92.8	92.8	93.7	94.8	95.3	95.3	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 800	67.7	82.6	87.2	91.6	93.0	93.0	93.9	95.1	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 700	67.7	82.7	87.4	91.9	93.6	93.6	94.4	95.7	96.2	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 600	67.7	82.7	87.6	92.2	93.9	93.9	94.9	96.2	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	67.8	82.9	87.9	92.6	94.3	94.3	95.3	96.7	97.2	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 400	67.8	82.9	87.9	93.1	94.9	94.9	95.9	97.2	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 300	67.8	82.9	87.9	93.1	95.0	95.0	96.0	97.4	98.2	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 200	67.8	82.9	87.9	93.1	95.0	95.0	96.0	97.6	98.7	98.7	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 100	67.8	82.9	87.9	93.1	95.0	95.0	96.0	97.6	98.7	98.7	99.4	99.7	99.7	99.7	99.7	100.0	100.0
GE 0	67.8	82.9	87.9	93.1	95.0	95.0	96.0	97.6	98.7	98.7	99.4	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN POLRS(IST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	46.2	53.4	54.9	56.1	56.9	57.0	57.2	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.7
GE 20000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.2	62.3	62.3	62.3
GE 18000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.2	62.3	62.3	62.3
GE 16000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.2	62.3	62.3	62.3
GE 14000	49.7	57.8	59.5	60.8	61.7	61.8	62.0	62.2	62.3	62.4	62.4	62.4	62.4	62.5	62.5	62.5
GE 12000	50.4	58.8	60.5	61.0	62.7	62.8	63.1	63.3	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.6
GE 10000	52.0	60.8	62.5	63.9	64.8	64.9	65.1	65.3	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6
GE 9000	52.1	61.0	62.7	64.0	64.9	65.0	65.3	65.5	65.6	65.7	65.7	65.7	65.7	65.8	65.8	65.8
GE 8000	54.1	64.1	65.9	67.4	68.4	68.5	68.8	69.0	69.1	69.2	69.2	69.2	69.3	69.3	69.3	69.3
GE 7000	55.0	65.4	67.3	68.8	69.8	69.9	70.3	70.5	70.5	70.6	70.7	70.7	70.7	70.7	70.8	70.8
GE 6000	55.7	66.3	68.2	70.0	71.0	71.1	71.5	71.7	71.7	71.8	71.9	71.9	71.9	71.9	72.0	72.0
GE 5000	57.0	68.2	70.2	72.1	73.3	73.4	73.8	74.0	74.1	74.2	74.3	74.3	74.3	74.3	74.4	74.4
GE 4500	59.1	71.2	73.5	75.6	76.9	77.0	77.4	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.1
GE 4000	59.6	72.1	74.4	76.6	77.9	78.1	78.5	78.8	78.8	79.0	79.0	79.0	79.1	79.1	79.1	79.1
GE 3500	61.0	74.2	76.7	79.0	80.3	80.5	81.0	81.3	81.3	81.4	81.5	81.5	81.6	81.6	81.6	81.6
GE 3000	62.0	76.0	78.5	81.1	82.4	82.6	83.2	83.5	83.5	83.7	83.8	83.8	83.9	83.9	83.9	83.9
GE 2500	63.2	78.0	80.7	83.4	84.9	85.1	85.8	86.1	86.2	86.3	86.5	86.5	86.5	86.5	86.6	86.6
GE 2000	64.6	80.1	83.0	85.9	87.4	87.7	88.4	88.7	88.8	89.0	89.1	89.1	89.2	89.2	89.2	89.3
GE 1800	65.1	80.8	83.7	86.6	88.2	88.6	89.3	89.6	89.7	89.9	90.1	90.1	90.1	90.1	90.2	90.2
GE 1500	65.8	82.0	85.1	88.1	89.8	90.2	91.0	91.3	91.4	91.7	91.8	91.8	91.9	91.9	91.9	91.9
GE 1200	66.2	82.7	85.6	88.8	90.6	91.0	91.8	92.2	92.3	92.6	92.7	92.7	92.8	92.8	92.8	92.8
GE 1000	66.5	83.4	86.5	89.7	91.5	92.0	92.8	93.3	93.3	93.6	93.8	93.8	93.9	93.9	93.9	93.9
GE 900	66.7	83.7	86.9	90.2	92.0	92.5	93.3	93.8	93.8	94.1	94.3	94.3	94.4	94.4	94.4	94.4
GE 800	66.8	84.2	87.4	90.7	92.6	93.1	94.0	94.5	94.5	94.8	95.0	95.0	95.1	95.1	95.1	95.1
GE 700	66.9	84.5	87.7	91.1	93.1	93.7	94.6	95.0	95.1	95.4	95.5	95.5	95.6	95.6	95.7	95.7
GE 600	66.9	84.6	87.9	91.3	93.4	94.0	94.9	95.4	95.5	95.8	95.9	95.9	96.0	96.0	96.0	96.1
GE 500	67.0	84.8	88.1	91.6	93.8	94.4	95.4	96.1	96.1	96.4	96.6	96.6	96.7	96.7	96.7	96.7
GE 400	67.0	84.9	88.3	91.9	94.1	94.9	96.0	96.6	96.9	97.3	97.4	97.4	97.5	97.5	97.6	97.6
GE 300	67.0	84.9	88.3	92.0	94.3	95.1	96.3	97.2	97.3	97.8	98.0	98.1	98.3	98.3	98.4	98.4
GE 200	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.3	98.7	98.7	99.0	99.0	99.1	99.1
GE 100	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.4	98.8	98.9	99.2	99.3	99.6	99.8
GE 0	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.4	98.8	98.9	99.2	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	43.8	58.9	62.5	64.7	65.7	65.8	66.3	66.6	66.6	66.6	66.9	66.9	67.0	67.0	67.1	67.1	
GE 25000	44.9	60.5	64.6	66.9	68.0	68.1	68.6	68.9	68.9	68.9	69.2	69.2	69.4	69.4	69.6	69.7	
GE 16000	45.1	60.8	64.8	67.1	68.2	68.3	68.8	69.1	69.1	69.1	69.5	69.5	69.6	69.6	69.8	69.9	
GE 14000	45.4	61.1	65.2	67.4	68.5	68.6	69.1	69.5	69.5	69.5	69.8	69.8	69.9	69.9	70.1	70.2	
GE 12000	45.6	61.4	65.5	67.7	68.8	68.9	69.5	69.8	69.8	69.8	70.1	70.1	70.2	70.2	70.4	70.5	
GE 10000	47.5	63.8	68.1	70.3	71.4	71.5	72.0	72.4	72.4	72.4	72.7	72.7	72.8	72.8	73.0	73.1	
GE 9000	47.5	63.9	68.2	70.4	71.5	71.6	72.2	72.5	72.5	72.5	72.8	72.8	72.9	72.9	73.1	73.2	
GE 8000	48.7	65.9	70.3	72.7	73.8	74.0	74.6	74.9	74.9	74.9	75.3	75.3	75.4	75.4	75.6	75.7	
GE 7000	49.0	67.0	71.4	73.8	74.8	75.1	75.7	76.0	76.0	76.0	76.3	76.3	76.5	76.5	76.7	76.8	
GE 6000	49.4	67.6	72.3	74.6	75.8	76.0	76.7	77.0	77.0	77.0	77.3	77.3	77.4	77.4	77.6	77.7	
GE 5000	50.8	70.3	75.1	77.6	78.9	79.1	79.8	80.3	80.3	80.3	80.6	80.6	80.8	80.8	81.0	81.1	
GE 4500	51.8	72.9	78.0	80.6	82.3	82.5	83.1	83.7	83.7	83.7	84.0	84.0	84.1	84.1	84.3	84.4	
GE 4000	52.2	73.7	79.7	81.4	83.0	83.2	83.9	84.4	84.4	84.4	84.7	84.7	84.8	84.8	85.1	85.2	
GE 3500	52.4	74.5	80.0	82.7	84.3	84.5	85.2	85.7	85.7	85.7	86.1	86.1	86.2	86.2	86.5	86.6	
GE 3000	52.9	76.1	82.3	84.9	86.6	86.8	87.4	88.0	88.0	88.0	88.4	88.4	88.5	88.5	88.7	88.8	
GE 2500	53.7	77.4	83.5	86.5	88.1	88.6	89.4	89.9	89.9	89.9	90.3	90.3	90.4	90.4	90.6	90.8	
GE 2000	53.7	77.8	84.1	87.1	88.7	89.4	90.1	90.6	90.6	90.6	91.1	91.1	91.2	91.2	91.4	91.5	
GE 1800	53.8	78.1	84.4	87.4	89.0	89.7	90.4	91.0	91.0	91.0	91.4	91.4	91.5	91.5	91.7	91.8	
GE 1500	54.0	78.5	85.1	88.1	89.8	90.5	91.4	91.9	91.9	91.9	92.4	92.4	92.5	92.5	92.7	92.8	
GE 1200	54.2	78.8	85.4	88.5	90.2	91.0	91.8	92.4	92.4	92.4	92.8	92.8	92.9	92.9	93.1	93.2	
GE 1000	54.5	79.4	86.0	89.4	91.3	92.0	93.0	93.5	93.5	93.5	94.0	94.0	94.1	94.1	94.3	94.4	
GE 900	54.6	79.5	86.1	89.5	91.4	92.2	93.1	93.7	93.7	93.7	94.1	94.1	94.2	94.2	94.4	94.5	
GE 800	54.7	80.0	86.7	90.0	92.0	92.8	93.8	94.3	94.3	94.3	94.7	94.7	94.8	94.8	95.1	95.2	
GE 700	54.7	80.4	87.2	90.5	92.6	93.4	94.4	94.9	94.9	94.9	95.4	95.4	95.5	95.5	95.7	95.8	
GE 600	54.7	80.5	87.6	91.0	93.0	93.9	94.9	95.6	95.6	95.6	96.0	96.0	96.1	96.1	96.3	96.5	
GE 500	54.7	80.6	87.8	91.2	93.2	94.1	95.3	96.2	96.2	96.2	96.7	96.7	96.8	96.8	97.0	97.1	
GE 400	54.8	80.9	88.2	91.7	93.9	94.8	96.0	97.0	97.0	97.0	97.4	97.4	97.5	97.5	97.7	97.8	
GE 300	54.8	80.9	88.2	91.8	94.0	94.9	96.2	97.4	97.4	97.4	97.8	97.8	98.0	98.0	98.2	98.3	
GE 200	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.0	98.0	98.2	98.2	98.4	98.5	
GE 100	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.2	98.2	98.5	98.5	98.7	98.9	
GE 0	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.2	98.2	98.5	98.5	98.8	100.0	
TOTAL NUMBER OF OBSERVATIONS:		930															

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	38.2	52.4	55.3	57.1	60.0	60.6	61.5	61.6	61.8	62.5	63.0	63.0	63.4	63.4	63.4	63.4	64.0
GE 20000	39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6
GE 18000	39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6
GE 16000	39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6
GE 14000	39.6	54.8	58.4	60.2	63.2	63.9	64.8	65.4	65.4	66.0	66.7	66.7	67.3	67.3	67.3	67.3	67.8
GE 12000	40.1	55.6	59.4	61.2	64.2	64.8	65.8	66.3	66.3	67.0	67.6	67.6	68.3	68.3	68.3	68.3	68.8
GE 10000	41.4	58.0	61.9	63.9	66.9	67.5	68.5	69.2	69.2	69.9	70.5	70.5	71.2	71.2	71.2	71.2	71.7
GE 9000	41.6	58.2	62.2	64.1	67.1	67.7	68.7	69.5	69.5	70.1	70.8	70.8	71.4	71.4	71.4	71.4	71.9
GE 8000	43.3	60.4	64.4	66.5	69.5	70.1	71.1	71.9	71.9	72.7	73.4	73.4	74.1	74.1	74.1	74.1	74.7
GE 7000	44.1	61.6	65.6	67.6	70.6	71.3	72.3	73.1	73.1	73.9	74.6	74.6	75.3	75.3	75.3	75.3	75.9
GE 6000	44.4	62.2	66.5	68.5	71.6	72.3	73.2	74.1	74.1	74.8	75.6	75.6	76.2	76.2	76.2	76.2	76.9
GE 5000	45.2	63.8	68.1	70.2	73.5	74.2	75.2	76.0	76.0	76.8	77.5	77.5	78.2	78.2	78.2	78.2	78.8
GE 4500	46.3	66.2	70.9	73.5	77.0	77.6	78.6	79.5	79.5	80.2	81.0	81.0	81.6	81.6	81.6	81.6	82.3
GE 4000	47.0	67.4	72.0	74.7	78.2	78.8	79.8	80.6	80.6	81.4	82.2	82.2	82.8	82.8	82.8	82.8	83.4
GE 3500	47.6	68.8	73.5	76.3	79.8	80.4	81.4	82.3	82.3	83.0	83.8	83.8	84.4	84.4	84.4	84.4	85.1
GE 3000	48.1	70.2	75.1	78.0	81.5	82.2	83.1	84.0	84.0	84.7	85.5	85.5	86.1	86.1	86.1	86.1	86.8
GE 2500	48.2	71.2	76.2	79.2	82.8	83.4	84.4	85.3	85.3	86.0	86.8	86.8	87.4	87.4	87.4	87.4	88.1
GE 2000	48.5	71.9	77.0	80.1	83.7	84.4	85.4	86.3	86.3	87.1	87.8	87.8	88.5	88.5	88.5	88.5	89.1
GE 1800	48.5	72.0	77.2	80.3	83.9	84.6	85.6	86.6	86.6	87.3	88.1	88.1	88.7	88.7	88.7	88.7	89.4
GE 1500	49.1	73.0	78.2	81.3	84.8	85.6	86.7	87.6	87.6	88.5	89.2	89.2	89.9	89.9	89.9	89.9	90.5
GE 1200	49.4	73.5	78.8	82.0	85.7	86.5	87.5	88.5	88.5	89.5	90.2	90.2	90.9	90.9	90.9	90.9	91.5
GE 1000	49.5	73.6	79.0	82.3	85.9	86.7	87.8	88.6	88.6	89.8	90.5	90.5	91.2	91.2	91.2	91.2	91.8
GE 900	49.5	73.9	79.1	82.4	86.1	86.9	88.1	89.0	89.0	90.0	90.8	90.8	91.4	91.4	91.4	91.4	92.0
GE 800	49.7	74.3	79.6	82.9	86.7	87.4	88.7	89.7	89.7	90.6	91.4	91.4	92.0	92.0	92.0	92.0	92.7
GE 700	49.8	74.8	80.2	83.8	87.7	88.5	89.8	90.9	90.9	91.6	92.6	92.6	93.2	93.2	93.2	93.2	93.9
GE 600	49.9	74.9	80.4	84.1	88.3	89.0	90.5	91.6	91.6	92.6	93.3	93.3	94.0	94.0	94.0	94.0	94.6
GE 500	49.8	75.1	80.5	84.2	88.4	89.1	90.8	92.0	92.0	93.0	93.8	93.8	94.4	94.4	94.4	94.4	95.1
GE 400	49.9	75.4	80.9	84.6	88.9	89.7	91.9	93.2	93.2	94.4	95.2	95.2	95.8	95.8	95.8	95.8	96.5
GE 300	49.9	75.4	80.9	84.9	89.4	90.1	92.5	94.2	94.2	95.7	96.6	96.6	97.2	97.2	97.2	97.2	97.8
GE 200	49.9	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.0	97.7	97.7	97.7	97.7	98.5
GE 100	49.9	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.1	98.0	98.0	98.0	98.3	99.1
GE 0	49.4	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.1	98.0	98.0	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639G STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	33.2	46.2	44.7	50.6	52.2	53.1	54.2	55.5	55.6	56.5	56.7	56.7	56.8	56.8	56.9	57.1
GE 20000	35.2	49.5	52.3	54.5	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8
GE 18000	35.2	49.5	52.3	54.5	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8
GE 16000	35.2	49.5	52.3	54.5	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8
GE 14000	35.4	49.8	52.6	54.8	56.5	57.6	58.9	60.3	60.4	61.4	61.6	61.6	61.9	61.9	62.0	62.3
GE 12000	36.1	50.5	53.3	55.6	57.2	58.4	59.7	61.1	61.2	62.2	62.5	62.5	62.8	62.8	62.9	63.1
GE 10000	37.3	52.7	55.8	58.4	60.1	61.3	62.6	64.1	64.2	65.3	65.6	65.6	65.9	65.9	66.0	66.2
GE 9000	37.3	52.9	56.0	58.6	60.3	61.6	62.9	64.4	64.5	65.6	65.9	65.9	66.2	66.2	66.3	66.6
GE 8000	40.0	57.0	60.4	63.2	65.1	66.3	67.6	69.4	69.5	70.5	71.3	71.3	71.6	71.6	71.7	71.9
GE 7000	41.1	58.5	62.0	64.8	66.9	68.2	69.5	71.2	71.3	72.4	73.1	73.1	73.4	73.4	73.5	73.8
GE 6000	41.3	59.1	62.7	65.5	67.5	68.8	70.2	71.9	72.0	73.1	73.9	73.9	74.2	74.2	74.3	74.5
GE 5000	42.6	61.6	65.4	68.2	70.3	71.7	73.1	74.5	74.9	76.1	76.9	76.9	77.2	77.2	77.3	77.5
GE 4500	43.4	62.8	66.6	69.8	72.2	73.6	75.2	76.4	77.0	78.3	79.1	79.1	79.5	79.5	79.6	79.8
GE 4000	43.9	63.7	67.4	70.6	73.0	74.6	76.0	77.7	77.8	79.1	80.0	80.0	80.3	80.3	80.4	80.6
GE 3500	44.4	64.6	68.8	72.3	74.8	76.6	78.1	79.8	79.9	81.2	82.0	82.0	82.4	82.4	82.5	82.7
GE 3000	45.1	66.0	70.1	73.8	76.7	78.4	79.9	81.6	81.7	83.0	83.9	83.9	84.2	84.2	84.3	84.5
GE 2500	45.6	66.8	71.1	74.7	77.7	79.6	81.1	82.8	82.9	84.2	85.1	85.1	85.4	85.4	85.5	85.7
GE 2000	45.8	67.2	71.7	75.4	78.6	80.4	82.2	83.9	84.0	85.3	86.1	86.1	86.5	86.5	86.6	86.8
GE 1800	46.2	68.2	72.7	76.5	79.7	81.5	83.2	85.2	85.3	86.6	87.4	87.4	87.7	87.7	87.8	88.1
GE 1600	46.5	69.1	73.6	77.5	80.9	82.7	84.5	86.5	86.6	87.8	88.7	88.7	89.0	89.0	89.1	89.4
GE 1400	46.9	69.9	74.6	78.6	81.9	83.9	85.9	88.0	88.1	89.4	90.2	90.2	90.5	90.5	90.6	90.9
GE 1000	47.3	70.4	75.3	79.4	82.8	84.7	87.3	89.4	89.5	90.9	91.7	91.7	92.0	92.0	92.2	92.4
GE 900	47.5	70.8	75.6	79.8	83.2	85.3	87.8	89.9	90.0	91.4	92.3	92.3	92.6	92.6	92.7	92.9
GE 800	47.7	71.1	76.0	80.2	83.8	85.8	88.4	90.4	90.5	91.9	92.8	92.8	93.1	93.1	93.2	93.4
GE 700	47.7	71.3	76.2	80.4	84.1	86.2	89.0	91.3	91.4	92.8	93.7	93.7	94.0	94.0	94.1	94.3
GE 600	47.7	71.4	76.5	80.6	84.4	86.6	89.5	91.7	91.8	93.2	94.1	94.1	94.4	94.4	94.5	94.7
GE 500	47.8	71.5	76.6	81.2	85.1	87.2	90.2	92.6	92.8	94.2	95.1	95.1	95.4	95.4	95.5	95.7
GE 400	47.8	71.6	76.7	81.4	85.3	87.5	90.8	93.3	93.5	95.3	96.2	96.2	96.6	96.6	96.7	96.9
GE 300	47.8	71.7	76.8	81.5	85.4	87.7	91.1	93.8	94.0	95.9	96.9	96.9	97.3	97.3	97.5	97.7
GE 200	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.1	98.1	98.4	98.6
GE 100	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.2	98.2	98.7	99.2
CE 0	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.2	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	44.1	54.0	56.7	58.5	59.9	60.1	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 20000	47.1	57.3	60.2	62.2	63.7	64.1	64.8	64.8	64.8	64.6	64.8	64.8	64.8	64.8	64.8	64.8
GE 18000	47.1	57.4	60.3	62.3	63.8	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 16000	47.1	57.4	60.3	62.3	63.8	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 14000	47.4	57.7	60.6	62.6	64.1	64.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 12000	48.8	59.2	62.3	64.2	65.7	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 10000	50.6	61.4	64.5	66.6	68.1	68.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 9000	51.7	61.8	64.9	67.0	68.5	68.9	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 8000	52.3	63.3	66.9	69.0	70.5	71.2	71.9	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 7000	53.1	64.7	68.5	70.9	72.5	73.1	73.9	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 6000	53.7	65.3	69.0	71.6	73.2	73.9	74.9	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 5000	54.7	66.8	70.5	73.2	74.9	75.6	76.7	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 4500	55.8	68.4	72.2	75.1	77.0	77.6	78.7	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1
GE 4000	56.3	69.0	72.9	75.6	77.7	78.4	79.5	79.7	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9
GE 3500	56.9	70.3	74.4	77.4	79.6	80.2	81.3	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 3000	58.0	71.9	76.1	79.4	81.5	82.2	83.2	83.4	83.4	83.5	83.8	83.8	83.8	83.8	83.8	83.8
GE 2500	58.3	72.4	76.9	80.3	82.7	83.3	84.5	84.7	84.7	84.8	85.1	85.1	85.1	85.1	85.1	85.1
GE 2000	59.1	73.9	78.4	81.8	84.2	84.8	86.2	86.5	86.5	86.6	86.8	86.8	86.8	86.8	86.8	86.8
GE 1800	59.2	74.3	78.9	82.6	85.2	85.8	87.2	87.4	87.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7
GE 1500	59.9	75.5	80.4	84.2	87.0	87.6	89.0	89.2	89.2	89.4	89.6	89.6	89.6	89.6	89.6	89.6
GE 1200	60.8	77.3	82.3	86.3	89.4	90.1	91.5	91.7	91.7	91.8	92.0	92.0	92.2	92.2	92.2	92.2
GE 1000	61.3	78.6	83.7	87.8	91.0	91.7	93.1	93.3	93.4	93.5	93.8	93.8	93.9	93.9	93.9	93.9
GE 900	61.5	79.0	84.3	88.6	91.8	92.6	94.0	94.2	94.3	94.4	94.6	94.6	94.7	94.7	94.7	94.7
GE 800	61.8	79.5	84.7	89.0	92.4	93.1	94.8	95.1	95.2	95.3	95.5	95.5	95.7	95.7	95.7	95.7
GE 700	61.8	79.5	84.7	89.0	92.4	93.1	94.8	95.2	95.3	95.4	95.6	95.6	95.8	95.8	95.8	95.8
GE 600	61.8	79.6	84.8	89.2	92.7	93.4	95.5	95.7	95.8	95.9	96.1	96.1	96.3	96.3	96.3	96.3
GE 500	61.8	79.8	85.1	89.5	93.2	94.0	96.0	96.3	96.5	96.7	97.0	97.0	97.2	97.2	97.2	97.2
GE 400	61.8	79.8	85.1	89.5	93.7	94.7	97.0	97.4	97.5	97.8	98.3	98.3	98.5	98.5	98.5	98.5
GE 300	61.8	80.0	85.4	89.9	94.3	95.4	97.6	98.2	98.3	98.6	99.0	99.0	99.2	99.2	99.2	99.2
GE 200	61.8	80.0	85.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.7	99.7	99.7
GE 100	61.8	80.0	85.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.8	99.8	99.9
GE 0	61.8	80.0	85.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(IST): 1200-1400

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4
NO CEIL	48.4	56.9	59.0	60.0	62.2	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 20000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 18000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 16000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 14000	52.0	61.7	64.3	66.3	68.3	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 12000	53.0	62.9	65.2	67.5	69.5	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 10000	55.6	66.0	68.3	70.6	72.7	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 9000	55.8	66.6	68.9	71.3	73.3	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 8000	57.1	68.1	70.6	73.1	75.4	75.5	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 7000	57.4	68.9	71.5	74.0	76.2	76.3	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 6000	57.6	69.2	71.9	74.4	76.7	76.8	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 5000	58.6	70.5	73.2	75.8	78.2	78.3	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 4500	59.7	72.0	75.3	78.0	80.4	80.5	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 4000	60.3	72.8	76.0	78.7	81.7	81.8	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 3500	60.8	73.7	77.0	79.7	82.7	82.8	83.1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3000	62.2	75.8	79.1	81.8	84.9	85.1	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 2500	63.1	78.4	82.2	85.5	88.9	89.1	89.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 2000	63.9	79.4	83.1	86.7	90.1	90.3	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1800	64.1	80.0	84.0	87.6	91.4	91.6	92.0	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1500	64.6	81.0	84.9	89.2	93.0	93.3	93.9	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1200	64.7	81.6	85.6	90.0	94.0	94.3	94.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1000	64.9	81.9	86.0	90.4	94.5	95.1	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 900	65.1	82.3	86.3	90.9	94.9	95.5	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 800	65.2	82.6	86.7	91.2	95.3	95.8	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 700	65.2	82.6	86.7	91.2	95.4	95.9	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 600	65.2	82.7	86.8	91.3	95.6	96.1	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 500	65.2	82.7	86.9	91.6	96.0	96.6	97.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 100	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 0	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-66
MONTH: JUL HOURS(IST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	C	
NO CEIL	50.1	57.3	54.1	60.2	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	
GE 20000	54.4	62.9	65.8	67.7	68.6	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 18000	54.4	62.9	65.8	67.7	68.6	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 16000	54.4	62.9	65.9	67.7	69.6	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 14000	54.6	63.4	66.3	68.3	67.1	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	
GE 12000	55.2	64.2	67.1	69.1	70.1	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
GE 10000	56.9	66.2	69.1	71.3	72.3	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	
GE 9000	57.1	66.7	69.6	71.7	72.7	72.9	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
GE 8000	58.1	67.8	71.0	73.2	74.2	74.4	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	
GE 7000	58.3	68.4	71.7	74.0	75.2	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	
GE 6000	58.7	68.8	72.2	74.4	75.6	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
GE 5000	60.5	71.1	74.4	76.9	78.1	78.4	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	
GE 4500	61.8	73.0	76.5	79.0	80.4	80.8	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	
GE 4000	62.9	74.4	77.8	80.4	82.3	82.6	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	
GE 3500	64.3	76.0	79.6	82.4	84.5	84.8	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	
GE 3000	65.5	77.7	81.6	84.5	86.7	87.0	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	
GE 2500	67.4	80.3	84.5	87.6	90.1	90.5	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	
GE 2000	68.5	81.6	86.1	89.2	92.0	92.5	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	
GE 1800	68.7	81.9	86.6	89.8	92.7	93.1	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	
GE 1500	68.9	82.4	87.0	90.3	93.3	93.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
GE 1200	69.0	82.7	87.4	90.8	93.9	94.4	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	
GE 1000	69.0	83.1	87.3	91.6	94.8	95.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
GE 900	69.0	83.2	88.5	91.8	95.1	95.7	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
GE 800	69.0	83.2	88.5	91.9	95.2	96.1	97.3	97.8	97.8	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	
GE 700	69.0	83.3	88.6	92.0	95.4	96.6	97.7	98.3	98.3	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	
GE 600	69.0	83.3	88.6	92.3	95.6	96.8	98.1	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	
GE 500	69.0	83.4	88.7	92.8	96.2	97.4	98.7	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	
GE 400	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 300	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 200	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 100	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 0	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(IST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	49.0	55.8	57.8	59.6	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 20000	1	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 18000	1	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 16000	1	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 14000	1	54.6	62.5	64.9	68.2	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 12000	1	55.1	62.9	65.5	68.5	69.6	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 10000	1	57.2	66.2	68.9	72.0	73.1	73.1	73.4	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 9000	1	57.5	66.6	69.2	72.4	73.4	73.4	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 8000	1	59.7	69.4	72.2	75.6	76.8	76.8	77.1	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 7000	1	59.8	70.2	73.0	76.6	77.8	77.8	78.2	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 6000	1	60.1	70.6	73.7	77.2	78.6	78.6	78.9	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 5000	1	61.6	73.2	76.5	80.1	81.5	81.7	82.0	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 4500	1	63.2	75.8	79.0	83.1	84.5	84.7	85.1	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 4000	1	63.8	76.7	80.0	84.2	85.8	86.0	86.3	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 3500	1	64.6	78.4	82.0	86.5	88.2	88.5	88.8	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 3000	1	65.4	79.8	84.0	88.5	90.4	90.8	91.1	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 2500	1	65.9	80.6	84.9	89.7	91.8	92.3	92.7	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 2000	1	66.5	81.7	86.1	90.9	93.1	93.5	94.0	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1800	1	66.8	82.2	86.6	91.5	93.8	94.2	94.6	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1500	1	67.3	83.0	87.5	92.5	94.7	95.2	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	1	67.3	83.0	87.6	92.6	94.9	95.4	95.8	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1000	1	67.3	83.1	87.8	92.8	95.3	95.7	96.1	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 900	1	67.3	83.3	88.1	93.2	95.9	96.2	96.7	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 800	1	67.3	83.5	88.4	93.7	96.2	96.7	97.1	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 700	1	67.3	83.7	88.5	93.8	96.5	96.9	97.3	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	1	67.3	83.9	88.7	94.2	96.6	97.3	97.8	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 500	1	67.3	83.9	88.7	94.3	97.0	97.6	98.2	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 400	1	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	1	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	1	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 100	1	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 0	1	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
U.S. AIR FORCE
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-84
MONTH: JUL HOURS (LST): 2100-2300

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NO CEIL	48.8	58.1	60.1	62.3	63.7	64.1	64.5	64.6	64.6	64.9	65.1	65.1	65.2	65.2	65.3	65.3	
GE 2000	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	70.9	71.2	71.3	71.3	71.4	71.4	71.5	71.5	
GE 1800	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	70.9	71.2	71.3	71.3	71.4	71.4	71.5	71.5	
GE 1600	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	70.9	71.2	71.3	71.3	71.4	71.4	71.5	71.5	
GE 1400	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	70.9	71.2	71.3	71.3	71.4	71.4	71.5	71.5	
GE 1200	53.3	63.4	65.5	68.1	70.3	70.9	71.4	71.6	71.6	72.2	72.3	72.3	72.4	72.4	72.5	72.5	
GE 1000	54.5	65.5	67.6	70.5	72.9	73.4	74.3	74.7	74.7	75.1	75.2	75.2	75.3	75.3	75.4	75.4	
GE 900	54.9	65.5	67.6	70.5	73.1	73.7	74.5	74.9	74.9	75.3	75.4	75.4	75.5	75.5	75.6	75.6	
GE 800	56.0	67.4	69.8	73.0	75.5	76.0	76.9	77.3	77.3	77.6	77.7	77.7	77.8	77.8	78.0	78.0	
GE 700	56.3	68.5	71.0	74.2	76.8	77.3	78.2	78.6	78.6	78.9	79.0	79.0	79.1	79.1	79.2	79.2	
GE 600	56.9	69.1	71.6	74.6	77.5	78.1	78.9	79.4	79.4	79.7	79.8	79.8	79.9	79.9	80.0	80.0	
GE 500	57.6	70.9	73.3	77.1	79.9	80.4	81.3	81.6	81.6	82.2	82.3	82.3	82.4	82.4	82.5	82.5	
GE 450	58.8	73.1	76.1	79.5	82.3	82.8	83.7	84.2	84.2	84.5	84.6	84.6	84.7	84.7	84.8	84.8	
GE 400	59.7	73.4	76.6	79.9	82.8	83.3	84.2	84.7	84.7	85.1	85.2	85.2	85.3	85.3	85.4	85.4	
GE 350	60.3	75.1	78.5	81.6	84.8	85.4	86.3	86.9	86.9	87.2	87.3	87.3	87.4	87.4	87.5	87.5	
GE 300	60.8	77.0	80.4	84.3	87.5	88.4	89.5	90.0	90.0	90.3	90.4	90.4	90.5	90.5	90.6	90.6	
GE 250	61.2	77.8	81.2	85.6	89.2	90.2	91.3	91.6	91.6	92.2	92.3	92.3	92.4	92.4	92.5	92.5	
GE 200	61.6	78.7	83.2	86.8	90.5	91.5	92.9	93.4	93.4	93.8	93.9	93.9	94.0	94.0	94.1	94.1	
GE 180	62.1	79.2	83.8	87.3	91.1	92.0	93.4	94.0	94.0	94.3	94.4	94.4	94.5	94.5	94.6	94.6	
GE 150	62.6	79.9	84.5	88.1	91.9	92.8	94.2	94.7	94.7	95.1	95.2	95.2	95.3	95.3	95.4	95.4	
GE 120	62.9	80.2	84.8	88.4	92.2	93.1	94.5	95.1	95.1	95.4	95.5	95.5	95.6	95.6	95.7	95.7	
GE 100	63.0	80.6	85.3	88.8	92.6	93.5	94.9	95.5	95.5	95.8	95.9	95.9	96.0	96.0	96.1	96.1	
GE 90	63.0	81.0	85.6	89.1	92.9	93.9	95.3	95.8	95.8	96.1	96.2	96.2	96.3	96.3	96.5	96.5	
GE 80	63.0	81.2	85.6	89.4	93.1	94.1	95.5	96.0	96.0	96.3	96.5	96.5	96.6	96.6	96.7	96.7	
GE 70	63.0	81.2	85.6	89.4	93.1	94.1	95.5	96.0	96.0	96.3	96.5	96.5	96.6	96.6	96.7	96.7	
GE 60	63.0	81.3	86.2	89.8	93.7	94.6	96.0	96.7	96.7	97.0	97.1	97.1	97.2	97.2	97.3	97.3	
GE 50	63.0	81.3	86.5	90.0	94.1	95.1	96.6	97.0	97.0	98.0	98.1	98.1	98.2	98.2	98.3	98.3	
GE 40	63.0	81.3	86.5	90.1	94.4	95.4	97.1	98.1	98.1	98.4	98.5	98.5	98.6	98.6	98.7	98.7	
GE 30	63.0	81.3	86.5	90.1	94.4	95.4	97.2	98.3	98.3	98.7	98.8	98.8	98.9	98.9	99.0	99.0	
GE 20	63.0	81.3	86.5	90.1	94.4	95.4	97.3	98.5	98.5	98.9	99.0	99.0	99.1	99.1	99.2	99.2	
GE 10	63.0	81.3	86.5	90.1	94.4	95.4	97.4	98.7	98.7	99.1	99.4	99.4	99.5	99.5	99.9	100.0	
GE 0	63.0	81.3	86.5	90.1	94.4	95.4	97.4	98.7	98.7	99.1	99.4	99.4	99.5	99.5	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): ALL

CEILING		VISIBILITY IN STATUTE MILES																
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	44.4	54.9	57.4	59.2	60.6	60.9	61.4	61.6	61.6	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.2	
GE 20000	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.0	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8	67.8	
GE 18000	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.1	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8	67.8	
GE 16000	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.1	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8	67.8	
GE 14000	47.7	59.2	62.1	64.4	66.0	66.5	67.0	67.4	67.4	67.7	67.8	67.8	68.0	68.0	68.0	68.1	68.1	
GE 12000	48.4	60.0	63.0	65.2	66.9	67.3	67.9	68.3	68.3	68.5	68.7	68.7	68.9	68.9	68.9	69.0	69.0	
GE 10000	50.2	62.5	65.5	68.0	69.7	70.1	70.8	71.2	71.2	71.4	71.6	71.6	71.8	71.8	71.8	71.9	71.9	
GE 9000	50.3	62.8	65.9	68.3	70.0	70.4	71.1	71.5	71.5	71.8	72.0	72.0	72.1	72.1	72.2	72.3	72.3	
GE 8000	51.9	64.9	68.2	70.8	72.6	73.0	73.7	74.2	74.2	74.5	74.8	74.8	74.9	74.9	75.0	75.1	75.1	
GE 7000	52.4	66.0	69.3	72.0	73.9	74.3	75.0	75.5	75.5	75.8	76.1	76.1	76.2	76.2	76.3	76.4	76.4	
GE 6000	52.8	66.5	70.0	72.6	74.6	75.0	75.3	76.3	76.3	76.6	76.8	76.8	77.0	77.0	77.0	77.2	77.2	
GE 5000	54.0	68.5	72.1	74.9	76.9	77.4	78.2	78.6	78.6	79.1	79.3	79.3	79.5	79.5	79.5	79.6	79.6	
GE 4500	55.1	70.5	74.3	77.3	79.5	80.0	80.8	81.4	81.4	81.7	82.0	82.0	82.1	82.1	82.2	82.3	82.3	
GE 4000	55.7	71.4	75.2	78.2	80.6	81.1	81.9	82.4	82.5	82.8	83.1	83.1	83.2	83.2	83.3	83.4	83.4	
GE 3500	56.4	72.7	76.7	79.9	82.3	82.9	83.7	84.3	84.3	84.6	84.9	84.9	85.1	85.1	85.1	85.3	85.3	
GE 3000	57.2	74.3	78.6	81.9	84.5	85.1	85.7	86.5	86.5	86.9	87.2	87.2	87.3	87.3	87.4	87.5	87.5	
GE 2500	57.9	75.6	80.2	83.6	86.4	87.1	88.0	88.7	88.7	89.0	89.3	89.3	89.4	89.4	89.5	89.6	89.6	
GE 2000	58.4	76.5	81.2	84.7	87.6	88.4	89.4	90.1	90.1	90.4	90.7	90.7	90.9	90.9	90.9	91.0	91.0	
GE 1800	58.7	77.0	81.8	85.4	88.3	89.1	90.1	90.8	90.8	91.2	91.5	91.5	91.6	91.6	91.7	91.8	91.8	
GE 1500	59.1	77.8	82.7	86.4	89.4	90.2	91.3	92.0	92.0	92.4	92.7	92.7	92.8	92.8	92.9	93.0	93.0	
GE 1200	59.4	78.4	83.3	87.2	90.3	91.1	92.2	92.9	92.9	93.3	93.6	93.6	93.8	93.8	93.8	93.9	93.9	
GE 1000	59.6	78.9	83.9	87.8	91.0	91.9	93.1	93.8	93.9	94.2	94.5	94.5	94.7	94.7	94.8	94.9	94.9	
GE 900	59.7	79.1	84.2	88.2	91.4	92.3	93.5	94.3	94.3	94.7	95.0	95.0	95.2	95.2	95.2	95.3	95.3	
GE 800	59.8	79.4	84.5	88.5	91.8	92.7	94.1	94.6	94.9	95.2	95.6	95.6	95.7	95.7	95.8	95.9	95.9	
GE 700	59.8	79.6	84.7	88.8	92.1	93.1	94.5	95.3	95.3	95.7	96.0	96.0	96.2	96.2	96.3	96.4	96.4	
GE 600	59.8	79.7	85.0	89.1	92.5	93.5	95.0	95.8	95.8	96.2	96.5	96.5	96.7	96.7	96.8	96.9	96.9	
GE 500	59.8	79.8	85.1	89.3	92.9	93.9	95.5	96.5	96.5	96.9	97.3	97.3	97.4	97.4	97.5	97.6	97.6	
GE 400	59.9	79.9	85.2	89.6	93.3	94.3	96.1	97.2	97.2	97.6	98.1	98.1	98.3	98.3	98.4	98.5	98.5	
GE 300	59.9	79.9	85.3	89.7	93.5	94.6	96.3	97.5	97.6	98.2	98.6	98.6	98.8	98.8	98.8	99.0	99.0	
GE 200	59.9	79.9	85.3	89.7	93.5	94.6	96.4	97.7	97.8	98.4	98.8	98.8	99.1	99.1	99.2	99.3	99.3	
GE 100	59.9	79.9	85.3	89.7	93.5	94.6	96.5	97.7	97.8	98.5	98.9	98.9	99.2	99.2	99.4	99.6	99.6	
GE 0	59.9	79.9	85.3	89.7	93.5	94.6	96.5	97.7	97.8	98.5	98.9	98.9	99.2	99.2	99.5	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(IST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16
NO CEIL	37.0	51.9	54.1	57.1	59.4	59.7	59.8	60.4	60.4	61.4	61.6	61.6	61.7	61.7	61.9	62.0
GE 20000	38.4	54.0	56.2	59.5	61.8	62.2	62.4	63.0	63.0	64.0	64.2	64.2	64.3	64.3	64.5	64.6
GE 18000	38.4	54.0	56.2	59.5	61.8	62.2	62.4	63.0	63.0	64.0	64.2	64.2	64.3	64.3	64.5	64.6
GE 16000	38.4	54.0	56.2	59.5	61.8	62.2	62.4	63.0	63.0	64.0	64.2	64.2	64.3	64.3	64.5	64.6
GE 14000	38.4	54.0	56.2	59.5	61.8	62.2	62.4	63.0	63.0	64.0	64.2	64.2	64.3	64.3	64.5	64.6
GE 12000	38.5	54.5	56.8	60.0	62.6	62.9	63.1	63.8	63.8	64.7	64.9	64.9	65.1	65.1	65.3	65.4
GE 10000	39.5	56.0	58.7	61.9	64.6	64.9	65.3	65.9	65.9	66.9	67.1	67.1	67.2	67.2	67.4	67.5
GE 9000	39.9	56.6	59.2	62.5	65.2	65.5	65.8	66.5	66.5	67.4	67.6	67.6	67.7	67.7	68.0	68.1
GE 8000	40.8	58.3	61.0	64.2	66.9	67.2	67.7	68.4	68.4	69.4	69.6	69.6	69.7	69.7	69.9	70.0
GE 7000	40.9	58.4	61.3	64.5	67.2	67.5	68.4	69.0	69.0	70.0	70.2	70.2	70.3	70.3	70.5	70.6
GE 6000	41.2	59.0	61.9	65.2	67.8	68.2	69.0	69.7	69.7	70.6	70.9	70.9	71.0	71.0	71.2	71.3
GE 5000	41.5	60.2	63.2	66.6	69.4	69.7	70.5	71.2	71.2	72.2	72.4	72.4	72.5	72.5	72.7	72.8
GE 4500	42.6	61.8	64.9	68.4	71.4	71.7	72.6	73.2	73.2	74.2	74.4	74.4	74.5	74.5	74.7	74.8
GE 4000	43.0	62.5	65.7	69.1	72.3	72.6	73.5	74.2	74.2	75.2	75.4	75.4	75.5	75.5	75.7	75.8
GE 3500	44.3	64.4	67.6	71.2	74.5	74.8	75.9	76.7	76.7	77.8	78.1	78.1	78.2	78.2	78.4	78.5
GE 3000	45.3	65.7	69.0	72.6	76.3	76.7	78.0	78.7	78.7	80.0	80.2	80.2	80.3	80.3	80.5	80.6
GE 2500	46.6	68.5	72.0	75.9	79.8	80.1	81.4	82.2	82.2	83.4	83.7	83.7	83.8	83.8	84.0	84.1
GE 2000	48.0	71.1	74.7	78.8	82.9	83.2	85.2	85.9	85.9	87.4	87.7	87.7	87.8	87.8	88.1	88.2
GE 1800	48.6	71.7	75.4	79.5	83.7	84.0	85.9	86.7	86.7	88.2	88.5	88.5	88.6	88.6	88.8	88.9
GE 1500	49.1	72.6	76.2	80.4	84.7	85.1	87.1	88.0	88.0	89.5	89.8	89.8	89.9	89.9	90.2	90.3
GE 1200	49.4	73.1	76.9	81.1	85.4	85.7	87.7	88.6	88.6	90.2	90.5	90.5	90.6	90.6	91.0	91.1
GE 1000	49.5	73.3	77.1	81.6	86.0	86.3	88.6	89.5	89.5	91.3	91.6	91.6	91.7	91.7	92.0	92.1
GE 900	49.5	73.4	77.3	81.8	86.2	86.6	88.9	89.8	89.8	91.6	91.9	91.9	92.0	92.0	92.4	92.5
GE 800	49.6	73.9	78.0	82.6	87.2	87.5	89.1	90.0	90.0	92.8	93.1	93.1	93.2	93.2	93.5	93.6
GE 700	49.8	74.1	78.3	82.9	87.8	88.2	90.8	91.7	91.7	93.5	93.9	93.9	94.1	94.1	94.4	94.5
GE 600	49.8	74.3	78.5	83.3	88.6	88.9	91.5	92.5	92.5	94.3	94.6	94.6	94.8	94.8	95.2	95.3
GE 500	49.8	74.3	78.9	83.9	89.4	89.7	92.4	93.3	93.3	95.2	95.5	95.5	95.7	95.7	96.0	96.1
GE 400	49.8	74.3	78.9	83.9	89.6	89.9	92.7	93.8	93.8	95.6	95.9	95.9	96.1	96.1	96.5	96.6
GE 300	49.8	74.3	78.9	83.9	89.6	89.9	92.9	94.1	94.1	95.9	96.2	96.2	96.5	96.5	96.8	96.9
GE 200	49.8	74.3	78.9	83.9	89.6	89.9	93.0	94.3	94.3	96.8	97.2	97.2	97.7	97.7	98.2	98.3
GE 100	49.8	74.3	79.5	83.5	89.6	89.9	93.0	94.3	94.3	96.8	97.2	97.3	97.8	97.8	98.5	98.6
GE 0	49.8	74.3	78.9	83.5	89.6	89.9	93.0	94.3	94.3	96.8	97.2	97.3	97.8	97.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATH WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(IST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN	GL	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	1/8
NO CEIL	32.2	43.5	45.5	48.9	52.4	52.8	53.5	54.1	54.5	55.1	55.3	55.3	55.8	55.8	56.2	56.2	56.2
GE 20000	33.1	46.1	48.4	52.3	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.0
GE 18000	33.1	46.1	48.4	52.3	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.0
GE 16000	33.1	46.1	48.4	52.3	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.0
GE 14000	33.2	46.2	48.5	52.3	56.2	56.7	57.4	58.1	58.5	59.0	59.2	59.2	59.8	59.8	60.2	60.2	60.2
GE 12000	33.3	46.5	48.7	52.5	56.5	56.9	57.6	58.3	58.7	59.2	59.5	59.5	60.0	60.0	60.4	60.4	60.4
GE 10000	34.0	47.7	50.3	54.3	58.3	58.7	59.5	60.1	60.5	61.1	61.3	61.3	61.8	61.8	62.3	62.3	62.3
GE 9000	34.3	48.1	50.6	54.6	58.6	59.0	59.8	60.4	60.9	61.4	61.6	61.6	62.2	62.2	62.6	62.6	62.6
GE 8000	35.4	49.5	52.2	56.1	60.1	60.5	61.4	62.0	62.5	63.0	63.2	63.2	63.8	63.8	64.2	64.2	64.2
GE 7000	35.6	49.9	52.6	56.6	60.5	61.0	61.9	62.6	63.0	63.5	63.8	63.8	64.3	64.3	64.7	64.7	64.7
GE 6000	35.6	50.0	52.8	56.8	60.8	61.2	62.2	62.8	63.2	63.8	64.0	64.0	64.5	64.5	64.9	64.9	64.9
GE 5000	36.2	51.1	54.2	58.3	62.3	62.8	64.1	64.7	65.2	65.7	65.9	65.9	66.5	66.5	66.9	66.9	66.9
GE 4500	37.5	53.7	56.9	61.3	65.3	65.8	67.2	67.8	68.3	68.8	69.0	69.0	69.6	69.6	70.0	70.0	70.0
GE 4000	38.0	54.5	57.7	62.4	66.5	67.0	68.5	69.4	69.8	70.3	70.8	70.8	71.3	71.3	71.7	71.7	71.7
GE 3500	39.1	56.2	59.6	64.3	68.4	68.9	70.5	71.5	71.9	72.5	73.0	73.0	73.5	73.5	74.0	74.0	74.0
GE 3000	40.5	57.8	61.3	66.0	70.1	70.6	72.3	73.3	73.8	74.3	74.8	74.8	75.4	75.4	75.8	75.8	75.8
GE 2500	42.4	61.1	64.5	69.6	74.0	74.5	76.3	77.5	78.0	78.6	79.1	79.1	79.7	79.7	80.1	80.1	80.1
GE 2000	43.0	62.6	66.0	71.2	75.9	76.6	78.7	80.0	80.4	81.4	82.2	82.2	82.7	82.7	83.1	83.1	83.1
GE 1800	43.3	63.3	66.8	71.9	76.8	77.6	79.8	81.1	81.5	82.5	83.2	83.2	83.8	83.8	84.2	84.2	84.2
GE 1500	44.0	64.7	68.2	73.4	78.4	79.4	81.6	82.9	83.4	84.4	85.2	85.2	85.7	85.7	86.1	86.1	86.1
GE 1200	44.3	65.3	68.7	74.0	78.9	79.9	82.2	83.5	84.2	85.2	85.9	85.9	86.5	86.5	87.0	87.0	87.0
GE 1000	44.5	66.0	69.6	74.8	79.8	80.9	83.2	84.6	85.3	86.2	87.0	87.0	87.5	87.5	88.1	88.1	88.1
GE 900	44.5	66.1	70.3	75.6	80.5	81.6	84.0	85.5	86.1	87.1	87.8	87.8	88.4	88.4	88.9	88.9	88.9
GE 800	44.7	66.8	71.2	76.7	81.9	83.1	85.9	87.4	88.1	89.0	89.8	89.8	90.3	90.3	90.9	90.9	90.9
GE 700	44.8	67.2	71.7	77.4	82.7	83.9	86.7	88.3	88.9	89.9	90.6	90.6	91.2	91.2	91.7	91.7	91.7
GE 600	44.8	67.3	71.8	77.7	83.1	84.4	87.4	89.0	89.7	90.8	91.5	91.5	92.0	92.0	92.6	92.6	92.6
GE 500	44.8	67.3	72.2	78.2	83.7	84.9	88.6	90.2	90.9	91.9	92.7	92.7	93.2	93.2	93.8	93.8	93.8
GE 400	44.8	67.4	72.4	78.5	84.2	85.5	89.6	91.2	91.8	93.3	94.1	94.2	94.7	94.7	95.3	95.3	95.3
GE 300	44.8	67.4	72.4	78.5	84.2	85.5	89.7	91.4	92.2	93.7	94.4	94.5	95.1	95.1	95.6	95.6	95.6
GE 200	44.8	67.4	72.4	78.5	84.2	85.6	89.8	91.6	92.4	94.1	94.9	95.1	95.8	95.8	96.3	96.3	96.3
GE 100	44.8	67.4	72.4	78.5	84.3	85.7	90.0	91.8	92.6	94.5	95.6	95.7	96.6	96.6	97.6	97.6	97.6
GE 0	44.8	67.4	72.4	78.5	84.3	85.7	90.0	91.8	92.6	94.5	95.6	95.7	96.6	96.9	97.7	97.7	97.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	24.5	37.1	38.5	41.0	43.4	44.8	45.7	47.1	47.2	48.3	48.8	48.8	48.9	49.2	49.8	50.5
GE 20000	25.8	39.4	41.2	44.1	47.1	48.6	49.7	51.1	51.3	52.4	52.9	52.9	53.0	53.4	54.0	55.2
GE 18000	25.9	39.5	41.3	44.2	47.2	48.7	49.8	51.2	51.4	52.5	53.0	53.0	53.1	53.5	54.1	55.3
GE 16000	25.9	39.5	41.3	44.2	47.2	48.7	49.8	51.2	51.4	52.5	53.0	53.0	53.1	53.5	54.1	55.3
GE 14000	25.9	39.6	41.4	44.4	47.4	48.9	50.0	51.4	51.6	52.7	53.2	53.2	53.3	53.8	54.3	55.5
GE 12000	26.1	40.0	41.8	44.8	47.8	49.4	50.4	51.8	52.0	53.1	53.7	53.7	53.8	54.2	54.7	55.9
GE 10000	27.4	42.0	43.9	47.2	50.6	52.4	53.4	54.9	55.2	56.3	56.9	56.9	57.0	57.4	58.0	59.2
GE 9000	27.4	42.3	44.1	47.4	50.9	52.6	53.7	55.2	55.4	56.6	57.1	57.1	57.2	57.6	58.2	59.5
GE 8000	29.1	44.6	46.6	49.9	53.4	55.2	56.2	57.7	58.0	59.1	59.7	59.7	59.8	60.2	60.8	62.0
GE 7000	29.7	46.1	48.1	51.4	55.1	56.9	58.0	59.6	59.8	61.0	61.5	61.5	61.6	62.0	62.6	63.9
GE 6000	30.0	47.0	48.9	52.3	55.9	57.7	58.8	60.4	60.6	61.8	62.4	62.4	62.5	62.9	63.4	64.7
GE 5000	30.8	48.2	50.2	53.5	58.1	59.9	61.0	62.6	62.9	64.1	64.6	64.6	64.7	65.2	65.7	67.0
GE 4500	32.2	50.9	53.1	56.7	61.3	63.3	64.6	66.2	66.6	67.7	68.3	68.3	68.4	68.8	69.4	70.8
GE 4000	32.4	51.2	53.4	57.0	61.7	63.9	65.3	67.0	67.3	68.5	69.0	69.1	69.2	69.7	70.2	71.6
GE 3500	32.8	52.0	54.3	57.8	62.8	64.9	66.5	68.3	68.6	70.0	70.5	70.6	70.9	71.3	71.8	73.2
GE 3000	33.3	53.4	55.9	59.9	64.8	67.1	68.7	70.5	70.9	72.3	72.8	72.9	73.1	73.5	74.1	75.5
GE 2500	34.1	54.6	57.4	61.4	66.5	68.9	70.6	72.5	72.8	74.2	75.4	75.5	75.8	76.2	76.8	78.2
GE 2000	35.3	56.6	59.5	63.4	68.6	71.1	72.8	75.1	75.4	76.9	78.2	78.3	78.6	79.0	79.6	81.0
GE 1800	35.6	57.0	59.9	63.9	69.1	71.7	73.5	75.8	76.1	77.7	79.0	79.1	79.5	79.9	80.4	81.8
GE 1500	36.6	58.5	61.4	65.5	70.9	73.4	75.3	77.6	78.0	79.6	80.9	81.0	81.3	81.7	82.3	83.7
GE 1200	37.2	59.6	62.6	66.8	72.2	74.7	76.6	78.9	79.2	81.0	82.4	82.5	82.9	83.3	83.9	85.3
GE 1000	37.3	60.3	63.4	67.7	73.2	75.8	77.7	80.4	80.8	82.6	84.0	84.1	84.5	84.9	85.5	86.9
GE 900	37.6	61.0	64.3	68.6	74.3	76.9	78.8	81.5	81.9	83.8	85.2	85.3	85.7	86.1	86.7	88.1
GE 800	37.7	61.3	64.7	69.0	74.9	77.6	79.6	82.4	82.8	84.6	86.0	86.1	86.6	87.0	87.5	88.9
GE 700	37.8	62.0	65.8	70.2	76.2	79.2	81.4	84.3	84.7	86.7	88.1	88.2	88.6	89.0	89.6	91.0
GE 600	37.9	62.2	66.1	70.6	77.0	80.3	82.6	85.5	85.9	88.1	89.5	89.6	90.0	90.4	91.0	92.4
GE 500	37.8	62.2	66.1	70.6	77.1	80.4	83.1	86.1	86.7	88.8	90.4	90.6	91.1	91.5	92.0	93.4
GE 400	37.8	62.3	66.2	70.8	77.2	80.6	83.4	86.6	87.1	89.2	91.1	91.3	91.7	92.2	92.7	94.1
GE 300	37.8	62.3	66.2	70.8	77.4	81.1	84.0	87.4	88.1	90.6	93.0	93.2	93.7	94.1	94.6	96.0
GE 200	37.8	62.3	66.2	70.8	77.4	81.1	84.1	87.6	88.3	90.9	93.4	93.8	94.3	94.9	95.6	97.4
GE 100	37.8	62.3	66.2	70.8	77.4	81.1	84.1	87.6	88.4	91.1	93.9	94.2	94.8	95.6	97.1	99.2
GE 0	37.8	62.3	66.2	70.8	77.4	81.1	84.1	87.6	88.4	91.1	93.9	94.2	94.8	95.6	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

LOCAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA PI

PERIOD OF RECORD: 77-86
MONTH: AUG FOUR(157): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GL 1"	GL 6	GE 5	GE 4	GE 3	GE 2 1/2	GL 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	30.4	44.9	46.3	48.1	48.8	49.1	49.2	49.2	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
GE 20000	32.9	48.4	50.2	52.4	53.2	53.5	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	
GE 18000	33.0	48.5	50.3	52.5	53.3	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	
GE 16000	33.0	48.5	50.3	52.5	53.3	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	
GE 14000	33.2	48.7	50.5	52.7	53.7	54.0	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	
GE 12000	33.8	49.6	51.4	53.6	54.7	55.1	55.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	
GE 10000	35.2	51.9	53.5	56.0	57.4	58.1	58.5	58.5	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	
GE 9000	35.5	52.4	54.2	56.6	58.0	58.6	59.0	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	
GE 8000	36.4	55.9	58.3	60.8	62.3	63.0	63.4	63.4	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7	
GE 7000	39.2	57.3	59.8	62.4	63.9	64.6	65.1	65.1	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	
GE 6000	39.5	57.6	60.1	62.7	64.2	64.9	65.4	65.4	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	
GE 5000	40.3	59.5	61.9	64.5	66.1	66.9	67.3	67.3	67.3	67.4	67.5	67.5	67.5	67.5	67.5	67.5	
GE 4500	41.1	60.5	63.2	66.0	67.7	68.5	69.0	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2	
GE 4000	41.5	61.2	63.9	66.7	68.6	69.6	70.1	70.3	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	
GE 3500	42.2	62.0	64.7	67.6	69.6	70.6	71.2	71.4	71.5	71.8	71.9	71.9	71.9	71.9	71.9	71.9	
GE 3000	42.6	62.6	65.7	68.8	71.0	72.2	72.8	73.2	73.3	73.8	73.9	73.9	73.9	73.9	73.9	73.9	
GE 2500	45.2	66.1	69.5	72.8	75.1	76.5	77.1	77.8	78.0	78.4	78.5	78.5	78.5	78.5	78.5	78.5	
GE 2000	46.2	68.3	71.7	75.3	77.6	79.1	79.8	80.5	80.6	81.1	81.2	81.2	81.2	81.2	81.2	81.2	
GE 1800	46.6	69.0	72.5	76.1	78.5	80.0	80.9	81.6	81.7	82.2	82.3	82.3	82.3	82.3	82.3	82.3	
GE 1600	48.3	71.9	75.5	79.4	81.9	83.4	84.5	85.3	85.4	85.8	85.9	85.9	85.9	85.9	85.9	85.9	
GE 1200	49.2	74.1	77.8	81.8	84.7	86.3	87.6	88.4	88.5	88.9	89.0	89.0	89.0	89.0	89.0	89.0	
GE 1000	49.9	75.9	79.9	84.1	87.1	88.8	90.1	91.0	91.1	91.5	91.6	91.6	91.6	91.6	91.6	91.6	
GE 900	49.9	76.1	80.1	84.3	87.5	89.2	90.5	91.7	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.4	
GE 800	50.2	76.7	80.6	84.8	88.3	90.2	91.6	92.6	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	
GE 700	50.3	76.9	81.1	85.3	89.0	91.3	92.9	94.2	94.4	94.8	94.9	94.9	94.9	94.9	94.9	94.9	
GE 600	50.3	77.0	81.3	85.5	89.6	92.0	93.7	95.1	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	
GE 500	50.3	77.0	81.3	85.6	90.1	92.6	94.6	96.1	96.5	97.1	97.2	97.2	97.2	97.2	97.2	97.2	
GE 400	50.3	77.0	81.3	85.6	90.1	92.9	94.9	97.0	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	
GE 300	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.7	98.9	99.1	99.1	99.2	99.4	99.4	99.4	
GE 200	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.8	99.9	99.9	99.9	
GE 100	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.9	100.0	100.0	100.0	
GE 01	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.9	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1200-1400

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	10	6	5	4	3	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	1/8	0	0
NO CLIL	35.4	47.1	47.6	49.1	49.6	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 20000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 18000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 16000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 14000	39.6	53.1	54.3	56.2	56.8	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
GE 12000	40.4	54.0	55.2	57.1	57.6	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 10000	41.4	55.8	57.4	59.5	60.1	60.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 9000	41.7	56.3	58.1	60.1	60.8	61.1	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 8000	43.1	58.3	60.2	62.5	63.2	63.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 7000	44.6	60.2	62.2	64.6	65.4	65.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 6000	44.9	60.9	62.8	65.3	66.0	66.6	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 5000	45.8	62.7	64.6	67.5	68.3	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 4500	46.8	63.9	65.8	68.8	69.6	70.1	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 4000	47.6	65.2	67.1	70.4	71.2	71.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 3500	49.6	67.4	69.7	72.8	73.5	74.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 3000	51.8	70.4	72.6	75.9	76.7	77.3	77.8	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1
GE 2500	54.1	73.9	76.5	79.9	80.8	81.5	82.0	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 2000	55.7	77.1	80.1	84.1	85.3	86.0	86.6	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1800	56.3	78.5	81.5	85.9	87.2	88.1	88.6	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1500	57.2	80.3	83.4	88.2	90.1	91.2	91.8	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1200	57.7	81.2	84.4	89.4	91.5	92.6	93.4	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1000	58.2	81.7	85.3	90.2	92.4	93.4	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 900	58.2	81.7	85.3	90.2	92.4	93.4	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 800	58.3	81.8	85.4	90.3	92.6	93.4	94.0	95.1	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 700	58.3	81.9	85.5	90.5	93.2	94.4	95.6	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 600	58.3	81.9	85.8	91.1	93.9	95.2	96.5	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 500	58.3	82.2	86.0	91.3	94.6	95.9	97.3	98.1	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 400	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 300	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 200	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 100	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 0	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS: 1500-1700

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0	
NO CEIL	41.5	49.5	50.9	52.5	52.8	52.6	52.9	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
GE 20000	47.0	56.2	58.3	60.3	60.8	60.8	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 12000	47.0	56.2	58.3	60.3	60.8	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 16000	47.0	56.2	58.3	60.3	60.8	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 14000	47.4	56.7	58.7	60.4	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	
GE 12000	48.4	57.8	60.1	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
GE 10000	48.7	59.0	61.5	63.5	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
GE 9000	48.8	59.1	61.8	63.9	64.5	64.5	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	
GE 8000	50.2	61.5	64.3	66.5	67.4	67.4	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
GE 7000	50.6	62.7	65.7	68.1	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	
GE 6000	50.8	62.9	65.9	68.3	69.5	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	
GE 5000	51.6	64.4	68.1	70.5	71.7	71.7	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
GE 4500	53.3	67.6	71.0	73.4	74.6	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	
GE 4000	54.2	69.1	72.2	74.7	75.9	76.0	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	
GE 3500	55.7	71.1	74.4	77.1	78.3	78.7	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	
GE 3000	58.4	74.3	77.6	80.6	81.9	82.6	82.8	82.8	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
GE 2500	60.0	76.8	80.2	84.0	85.4	86.0	86.2	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
GE 2000	60.6	78.2	82.0	86.0	87.7	88.6	88.9	89.1	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	
GE 1800	61.2	78.9	82.9	87.0	88.7	89.7	90.0	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	
GE 1500	62.2	80.3	84.3	88.6	90.3	91.6	92.0	92.4	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	
GE 1200	62.5	81.0	85.1	89.5	91.4	92.7	93.1	93.5	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	
GE 1000	62.8	81.9	86.2	90.6	92.7	94.1	94.5	94.9	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	
GE 900	62.8	81.9	86.2	90.6	92.7	94.2	94.7	95.2	95.4	95.7	95.8	95.8	95.8	95.8	95.8	95.8	
GE 800	62.8	82.0	86.3	90.9	92.9	94.3	94.9	95.4	95.6	95.9	96.0	96.0	96.1	96.1	96.1	96.1	
GE 700	62.8	82.2	86.5	91.0	93.3	94.7	95.6	96.0	96.5	96.6	96.9	96.9	97.0	97.0	97.0	97.0	
GE 600	62.8	82.2	86.5	91.0	93.3	94.8	95.7	96.1	96.6	96.9	97.0	97.0	97.1	97.1	97.1	97.1	
GE 500	62.8	82.3	86.6	91.1	93.5	95.1	96.0	97.0	97.4	97.7	97.8	97.8	98.0	98.0	98.0	98.0	
GE 400	62.8	82.4	86.8	91.4	94.3	95.8	96.9	98.1	98.5	98.9	99.1	99.1	99.4	99.4	99.4	99.4	
GE 300	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	99.9	99.9	99.9	99.9	
GE 200	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	
GE 100	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	
GE 0	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALBENA MI

PERIOD OF RECORD: 77-66
MONTH: AUG HOURS(LST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES																
IN	FEET	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEILING	43.0	51.0	52.5	54.1	55.2	56.5	58.9	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 20000	47.6	59.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 16000	47.6	58.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 14000	47.6	58.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 12000	47.7	59.0	61.4	63.3	64.6	65.1	65.5	65.6	65.6	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9
GE 10000	47.8	59.4	61.9	63.9	65.2	65.6	66.0	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5
GE 9000	48.7	60.6	63.5	65.5	66.8	67.2	67.6	67.7	67.7	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1
GE 8000	49.0	61.3	64.3	66.2	67.5	68.0	68.4	68.5	68.5	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8
GE 7000	50.3	63.3	66.6	68.7	70.1	70.6	71.1	71.3	71.3	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6
GE 6000	51.1	64.3	67.5	69.8	71.2	71.7	72.2	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7
GE 5000	51.6	65.1	68.3	70.5	71.9	72.5	72.9	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4
GE 4500	52.2	66.0	69.2	71.7	73.1	73.7	74.1	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6
GE 4000	53.0	67.4	70.9	73.3	74.9	75.5	75.9	76.1	76.2	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6
GE 3500	53.8	68.7	72.2	74.9	76.8	77.3	77.7	78.0	78.1	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4
GE 3000	55.2	70.9	74.4	77.5	79.7	80.3	80.8	81.1	81.2	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6
GE 2500	56.8	72.9	76.6	80.3	82.8	83.7	84.1	84.6	84.7	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2
GE 2000	57.4	74.3	78.3	82.4	85.1	86.1	86.8	87.3	87.4	88.0	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2
GE 1800	58.6	76.3	80.4	84.6	88.0	89.2	90.0	90.6	90.8	91.3	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6
GE 1600	58.8	76.7	81.0	85.4	89.6	90.9	91.6	92.1	92.3	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8
GE 1500	59.0	77.4	81.9	86.3	89.6	91.0	91.7	92.4	92.5	93.0	93.2	93.3	93.3	93.3	93.4	93.4	93.4	93.4
GE 1200	59.1	77.6	82.2	86.5	89.8	91.3	92.0	92.7	92.8	93.3	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 1000	59.5	78.4	83.1	87.7	91.3	92.9	93.9	94.5	94.6	95.3	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7
GE 900	59.6	78.7	83.4	88.3	91.8	93.4	94.4	95.1	95.3	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
GE 800	59.7	78.9	83.9	88.7	92.3	93.9	94.8	95.5	95.7	96.3	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8
GE 700	59.7	78.9	84.0	89.0	92.4	94.0	95.1	95.8	96.0	96.7	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1
GE 600	59.7	79.0	84.1	88.9	92.5	94.1	95.3	96.0	96.2	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3
GE 500	59.8	79.1	84.2	89.0	92.7	94.3	95.5	96.5	96.8	97.5	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1
GE 400	59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.3	98.5	98.7	99.0	99.0	99.0	99.0	99.0	99.0
GE 300	59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.4	98.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9
GE 0	59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-84
MONTH: AUG HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 2	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	40.8	54.3	56.9	59.2	60.9	61.1	61.9	62.8	62.8	63.3	63.3	63.3	63.4	63.4	63.5	63.8
GE 20000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 18000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 16000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 14000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 12000	44.1	59.6	62.7	65.3	67.2	67.4	68.4	69.2	69.5	70.0	70.0	70.0	70.1	70.1	70.2	70.4
GE 10000	44.5	61.1	64.4	67.0	69.0	69.2	70.2	71.2	71.4	71.9	71.9	71.9	72.0	72.0	72.2	72.4
GE 9000	44.8	61.4	64.7	67.3	69.4	69.6	70.5	71.5	71.7	72.3	72.3	72.3	72.4	72.4	72.5	72.7
GE 8000	45.1	62.5	66.1	68.7	70.9	71.1	72.0	73.0	73.2	73.8	73.8	73.8	73.9	73.9	74.0	74.2
GE 7000	45.6	63.5	67.2	69.8	71.9	72.2	73.2	74.2	74.4	74.9	74.9	74.9	75.1	75.1	75.2	75.4
GE 6000	45.7	63.8	67.4	70.0	72.2	72.4	73.4	74.4	74.6	75.2	75.2	75.2	75.3	75.3	75.4	75.6
GE 5000	46.3	64.8	68.7	71.4	73.5	73.8	74.8	75.6	76.0	76.6	76.6	76.6	76.7	76.7	76.8	77.0
GE 4500	46.9	66.0	69.9	72.6	75.1	75.3	76.5	77.4	77.7	78.5	78.5	78.5	78.6	78.6	78.7	78.9
GE 4000	47.4	67.0	70.9	73.6	76.6	76.8	78.0	78.9	79.2	80.0	80.0	80.0	80.1	80.1	80.2	80.4
GE 3500	48.4	68.8	73.0	75.9	78.9	79.2	80.8	81.7	82.0	82.8	83.0	83.0	83.1	83.1	83.2	83.4
GE 3000	48.9	69.7	74.0	76.9	80.2	80.5	82.2	83.1	83.4	84.2	84.4	84.4	84.5	84.5	84.6	84.8
GE 2500	49.6	71.1	75.6	78.8	82.5	82.8	84.8	86.0	86.3	87.2	87.4	87.4	87.5	87.5	87.6	87.8
GE 2000	50.3	72.4	77.0	80.9	84.9	85.3	87.5	88.9	89.2	90.2	90.5	90.5	90.6	90.6	90.8	91.0
GE 1800	51.0	73.2	78.0	81.9	86.1	86.6	88.8	90.3	90.6	91.6	91.9	91.9	92.0	92.0	92.2	92.4
GE 1500	51.5	74.2	79.1	83.1	87.5	88.0	90.2	91.7	92.0	93.0	93.3	93.3	93.4	93.4	93.5	93.8
GE 1200	51.6	74.4	79.6	83.7	88.1	88.6	91.1	92.6	92.9	93.9	94.2	94.2	94.3	94.3	94.4	94.6
GE 1000	52.0	75.1	80.4	84.5	88.9	89.6	92.2	93.7	94.0	94.9	95.3	95.3	95.4	95.4	95.5	95.7
GE 900	52.0	75.2	80.5	84.6	89.0	89.7	92.3	93.8	94.1	95.1	95.4	95.4	95.5	95.5	95.6	95.8
GE 800	52.0	75.3	80.9	85.1	89.5	90.1	92.7	94.2	94.5	95.5	95.8	95.8	95.9	95.9	96.0	96.2
GE 700	52.0	75.3	81.0	85.2	89.7	90.3	93.0	94.5	94.8	95.8	96.1	96.1	96.2	96.2	96.3	96.6
GE 600	52.0	75.3	81.1	85.3	90.1	90.8	93.5	95.1	95.4	96.3	96.7	96.7	96.8	96.8	96.9	97.1
GE 500	52.2	75.4	81.4	85.6	90.6	91.3	94.2	95.8	96.1	97.1	97.4	97.4	97.5	97.5	97.6	97.8
GE 400	52.2	75.4	81.5	85.7	90.9	91.6	94.5	96.1	96.5	97.6	98.0	98.1	98.2	98.2	98.3	98.5
GE 300	52.2	75.4	81.5	85.8	91.0	91.7	94.7	96.3	96.7	98.0	98.3	98.4	98.5	98.5	98.6	98.8
GE 200	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.0	99.2
GE 100	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.2	99.5
GE C	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA PI

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS (LST): ALL

CEILING		VISIBILITY IN STATUTE MILES																
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	35.6	47.4	49.0	51.3	52.8	53.2	53.6	54.1	54.1	54.6	54.7	54.7	54.8	54.8	55.0	55.1		
GE 20000	39.5	51.8	53.6	56.4	58.2	58.6	59.1	59.6	59.7	60.1	60.2	60.2	60.3	60.4	60.6	60.8		
GE 18000	38.5	51.8	53.9	56.4	58.2	58.6	59.2	59.6	59.7	60.1	60.3	60.3	60.4	60.4	60.6	60.8		
GE 16000	38.5	51.8	53.9	56.4	58.2	58.6	59.2	59.6	59.7	60.1	60.3	60.3	60.4	60.4	60.6	60.8		
GE 14000	39.7	52.0	54.1	56.6	58.5	58.9	59.4	59.9	60.0	60.4	60.5	60.5	60.6	60.6	60.7	60.9	61.1	
GE 12000	39.1	52.7	54.8	57.4	59.3	59.7	60.2	60.7	60.8	61.2	61.3	61.3	61.5	61.5	61.7	61.9		
GE 10000	39.9	54.3	56.7	59.4	61.4	61.9	62.5	63.0	63.1	63.5	63.7	63.7	63.8	63.8	64.0	64.2		
GE 9000	40.2	54.7	57.1	59.8	61.8	62.4	62.9	63.4	63.5	64.0	64.1	64.1	64.2	64.3	64.4	64.7		
GE 8000	41.5	56.7	59.4	62.2	64.3	64.8	65.5	66.0	66.1	66.5	66.7	66.7	66.8	66.8	67.0	67.2		
GE 7000	42.2	57.8	60.5	63.4	65.6	66.1	66.8	67.3	67.4	67.9	68.0	68.0	68.1	68.2	68.4	68.6		
GE 6000	42.4	58.3	61.0	63.9	66.0	66.6	67.3	67.8	67.9	68.4	68.5	68.5	68.6	68.6	68.7	68.8	69.1	
GE 5000	43.1	59.7	62.5	65.5	67.8	68.4	69.1	69.6	69.8	70.2	70.3	70.3	70.5	70.5	70.7	70.9		
GE 4500	44.2	61.5	64.5	67.6	70.0	70.6	71.4	71.9	72.1	72.6	72.7	72.7	72.8	72.9	73.0	73.3		
GE 4000	44.7	62.4	65.4	68.6	71.2	71.9	72.7	73.3	73.4	73.9	74.1	74.1	74.2	74.3	74.4	74.7		
GE 3500	45.9	64.1	67.2	70.5	73.2	74.0	74.9	75.5	75.7	76.3	76.5	76.5	76.6	76.7	76.8	77.1		
GE 3000	47.2	65.9	69.1	72.6	75.5	76.3	77.3	78.0	78.2	78.8	79.0	79.0	79.2	79.2	79.4	79.6		
GE 2500	48.7	68.3	71.7	75.6	78.6	79.6	80.7	81.5	81.7	82.3	82.6	82.6	82.8	82.8	83.0	83.3		
GE 2000	49.7	70.3	73.9	78.1	81.4	82.4	83.7	84.6	84.8	85.6	86.0	86.0	86.1	86.2	86.3	86.6		
GE 1800	50.2	71.0	74.7	79.0	82.3	83.4	84.8	85.8	85.9	86.7	87.1	87.1	87.3	87.3	87.5	87.7		
GE 1500	51.0	72.5	76.3	80.6	84.2	85.4	86.8	87.8	88.0	88.8	89.2	89.2	89.4	89.4	89.6	89.8		
GE 1200	51.4	73.3	77.2	81.6	85.2	86.5	88.0	89.0	89.2	90.1	90.5	90.5	90.7	90.7	90.9	91.1		
GE 1000	51.7	74.1	78.1	82.7	86.4	87.7	89.3	90.5	90.7	91.5	91.9	92.0	92.1	92.2	92.4	92.6		
GE 900	51.7	74.3	78.4	83.0	86.8	88.1	89.8	90.9	91.2	92.1	92.5	92.5	92.7	92.7	92.9	93.2		
GE 800	51.9	74.6	78.9	83.5	87.5	88.8	90.6	91.8	92.0	92.9	93.3	93.3	93.5	93.5	93.8	94.0		
GE 700	51.9	74.6	79.2	83.9	88.1	89.5	91.4	92.6	92.9	93.8	94.2	94.2	94.4	94.4	94.7	94.9		
GE 600	51.9	74.9	79.4	84.2	88.5	90.1	92.0	93.3	92.6	94.5	94.9	95.0	95.2	95.2	95.4	95.7		
GE 500	52.0	75.0	79.6	84.4	89.0	90.5	92.7	94.1	94.5	95.4	95.9	95.9	96.1	96.2	96.4	96.6		
GE 400	52.0	75.0	79.7	84.6	89.3	91.0	93.2	94.8	95.1	96.3	96.8	96.9	97.1	97.2	97.4	97.6		
GE 300	52.0	75.0	79.7	84.6	89.4	91.0	93.5	95.1	95.5	96.8	97.4	97.5	97.8	97.9	98.1	98.3		
GE 200	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.6	97.1	97.8	97.9	98.3	98.4	98.6	98.9		
GE 100	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.7	97.2	97.9	98.0	98.5	98.6	99.1	99.5		
GE 0	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.7	97.2	97.9	98.0	98.5	98.6	99.1	100.0		

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAF/CLTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA PI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	10	6	5	4	3	2	1 1/2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	1/8	0	
NO CEIL	33.3	45.2	46.7	49.0	50.3	50.3	50.7	50.7	50.7	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.6	
GE 20000	34.6	46.9	46.3	50.8	52.4	52.4	52.8	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7	
GE 18000	34.6	46.9	46.3	50.8	52.4	52.4	52.8	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7	
GE 16000	34.6	46.9	46.3	50.8	52.4	52.4	52.8	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7	
GE 14000	34.6	46.9	46.3	50.8	52.4	52.4	52.8	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7	
GE 12000	35.3	48.0	49.4	52.0	53.7	53.7	54.0	54.0	54.0	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.9	
GE 10000	36.2	49.2	50.8	53.4	55.2	55.2	55.6	55.6	55.6	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.4	
GE 9000	36.2	49.6	51.1	53.6	55.6	55.6	55.9	55.9	55.9	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.8	
GE 8000	37.3	51.2	52.8	55.6	57.3	57.3	57.8	57.8	57.8	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.7	
GE 7000	38.1	52.7	54.2	57.0	58.8	58.8	59.2	59.2	59.2	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.1	
GE 6000	38.9	54.0	55.6	58.3	60.1	60.1	60.6	60.6	60.6	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.4	
GE 5000	39.9	56.2	58.1	61.2	63.7	63.7	64.1	64.2	64.2	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.1	
GE 4000	41.3	58.6	60.4	63.9	66.4	66.4	67.0	67.1	67.1	67.7	67.9	67.9	67.9	67.9	67.9	67.9	68.0	
GE 4000	41.8	59.6	61.4	64.9	67.4	67.4	68.0	68.1	68.1	68.7	68.9	68.9	68.9	68.9	68.9	68.9	69.0	
GE 3500	43.1	61.6	63.7	67.1	69.8	69.8	70.3	70.4	70.4	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.3	
GE 3000	44.1	63.6	65.4	68.9	71.6	71.6	72.1	72.2	72.2	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.1	
GE 2500	46.2	66.6	70.0	73.6	76.3	76.4	77.0	77.1	77.1	77.7	77.9	77.9	77.9	77.9	77.9	77.9	78.0	
GE 2000	47.1	68.3	71.9	75.6	78.3	78.4	79.0	79.2	79.2	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.4	
GE 1800	48.0	69.3	73.1	76.9	79.7	79.6	80.3	80.6	80.6	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.8	
GE 1500	48.9	71.9	76.0	79.8	82.6	82.7	83.2	83.6	83.6	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.8	
GE 1200	49.4	73.2	77.4	81.3	84.2	84.3	84.9	85.3	85.4	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.7	
GE 1000	49.9	74.2	78.6	82.8	86.0	86.2	86.8	87.3	87.4	88.0	88.3	88.3	88.3	88.3	88.3	88.3	88.7	
GE 900	49.9	74.4	78.6	83.0	86.2	86.4	87.0	87.6	87.7	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.9	
GE 800	49.9	74.9	79.9	84.2	87.4	87.7	88.2	88.9	89.0	89.6	89.9	89.9	89.9	89.9	89.9	89.9	90.2	
GE 700	49.9	75.1	80.1	84.6	88.2	88.7	89.2	89.9	90.0	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.3	
GE 600	49.9	75.6	80.7	85.4	89.0	89.6	90.2	90.9	91.0	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.3	
GE 500	49.9	75.7	80.8	85.6	89.3	89.9	90.6	91.2	91.7	92.3	92.7	92.7	92.7	92.7	92.7	92.7	93.0	
GE 400	49.9	76.6	81.9	87.0	90.9	91.7	92.6	93.6	94.0	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.6	
GE 300	49.9	76.7	82.0	87.3	91.4	92.2	93.2	94.3	95.0	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.9	
GE 200	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.8	95.4	96.3	97.1	97.1	97.1	97.1	97.1	97.1	97.7	
GE 100	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.9	95.6	96.4	97.3	97.3	97.3	97.3	97.3	97.3	97.9	
GE 0	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.9	95.6	96.6	97.4	97.4	98.1	98.2	98.9	100.0		

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(EST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
1	10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0
NO CEIL	29.1	42.0	44.0	45.0	47.0	47.2	47.9	48.3	48.3	48.7	48.7	48.7	49.1	49.2	49.4	49.4	
GE 20000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 18000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 16000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 14000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 12000	30.2	44.7	45.7	48.4	49.7	49.9	50.6	51.0	51.0	51.3	51.3	51.3	51.8	51.9	52.1	52.1	
GE 10000	30.7	45.2	47.4	49.2	50.8	51.0	51.7	52.1	52.1	52.4	52.4	52.4	52.9	53.0	53.2	53.2	
GE 9000	30.8	45.8	48.0	49.6	51.3	51.6	52.2	52.7	52.7	53.0	53.0	53.0	53.4	53.6	53.8	53.8	
GE 8000	32.9	48.4	50.7	52.4	54.2	54.4	55.1	55.6	55.6	55.9	55.9	55.9	56.3	56.4	56.7	56.7	
GE 7000	33.3	49.2	51.4	53.2	55.1	55.6	56.2	56.7	56.7	57.0	57.0	57.0	57.4	57.4	57.8	57.8	
GE 6000	34.6	50.6	52.8	54.6	56.4	56.9	57.6	58.0	58.0	58.3	58.3	58.3	58.8	58.9	59.1	59.1	
GE 5000	35.6	51.7	54.2	56.0	57.9	58.3	59.1	59.8	59.8	60.1	60.1	60.1	60.6	60.7	60.9	60.9	
GE 4500	36.0	52.7	55.2	57.1	59.0	59.6	60.3	61.0	61.0	61.3	61.3	61.3	61.8	61.9	62.1	62.1	
GE 4000	36.7	53.7	56.3	58.2	60.1	60.7	61.4	62.1	62.1	62.4	62.4	62.4	62.9	63.0	63.2	63.2	
GE 3500	37.9	55.6	58.3	60.2	62.1	62.7	63.4	64.1	64.1	64.4	64.4	64.4	64.9	65.0	65.2	65.2	
GE 3000	39.1	58.0	61.0	62.9	64.8	65.3	66.3	67.0	67.0	67.3	67.3	67.3	67.8	67.9	68.1	68.1	
GE 2500	40.0	61.4	64.9	66.9	68.9	69.4	70.4	71.1	71.1	71.4	71.4	71.4	71.9	72.0	72.3	72.3	
GE 2000	42.4	63.9	67.3	69.4	71.8	72.3	73.3	74.0	74.0	74.3	74.3	74.3	74.9	75.0	75.3	75.3	
GE 1800	43.3	65.2	69.1	71.2	73.8	74.3	75.3	76.0	76.0	76.3	76.3	76.3	76.9	77.0	77.3	77.3	
GE 1500	43.8	66.7	71.0	73.3	76.1	76.7	77.7	78.3	78.3	78.7	78.7	78.7	79.2	79.3	79.7	79.7	
GE 1200	44.9	68.8	73.4	76.0	78.8	79.3	80.6	81.2	81.2	81.7	81.9	81.9	82.4	82.6	82.9	82.9	
GE 1000	45.7	71.1	76.0	79.1	82.3	82.9	84.1	84.8	84.8	85.2	85.6	85.6	86.1	86.2	86.6	86.6	
GE 900	46.1	72.1	77.1	80.4	83.7	84.2	85.4	86.1	86.1	86.6	86.9	86.9	87.4	87.6	87.9	87.9	
GE 800	46.3	72.7	77.8	81.2	84.7	85.2	86.4	87.1	87.1	87.6	87.9	87.9	88.4	88.6	88.9	88.9	
GE 700	46.4	73.2	78.4	82.0	85.4	86.0	87.4	88.1	88.1	88.6	88.9	88.9	89.4	89.6	90.0	90.0	
GE 600	46.4	73.4	78.7	82.3	85.8	86.3	87.8	88.7	88.7	89.1	89.4	89.4	90.0	90.1	90.7	90.7	
GE 500	46.4	73.7	79.4	83.1	86.6	87.1	88.8	89.8	89.8	90.2	90.6	90.6	91.1	91.2	91.8	91.8	
GE 400	46.4	73.8	79.7	83.7	87.6	88.2	91.3	92.4	92.6	93.0	93.6	93.6	94.3	94.4	95.1	95.1	
GE 300	46.4	73.8	79.7	84.1	88.3	89.0	92.3	93.4	94.0	94.4	95.0	95.0	95.8	96.0	96.7	96.7	
GE 200	46.4	73.8	79.7	84.1	88.3	89.0	92.3	93.6	94.1	94.6	95.1	95.1	96.3	96.7	97.4	97.8	
GE 100	46.4	73.8	79.7	84.1	88.3	89.0	92.3	93.7	94.2	94.7	95.3	95.3	96.9	97.2	98.8	99.3	
GE 0	46.4	73.8	79.7	84.1	88.3	89.0	92.3	93.7	94.2	94.7	95.3	95.3	97.0	97.3	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 0600-0600

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CEIL	24.9	32.0	33.6	35.0	36.3	36.9	38.1	38.7	38.9	39.0	39.2	39.2	39.4	39.4	39.7	39.9
GE 20000	26.3	25.3	37.7	29.4	40.8	41.6	43.7	43.6	43.8	43.9	44.1	44.1	44.3	44.3	44.7	45.0
GE 18000	26.8	25.3	37.7	29.4	40.8	41.6	43.0	43.6	43.8	43.9	44.1	44.1	44.3	44.3	44.7	45.0
GE 16000	26.8	25.3	37.7	29.4	40.8	41.6	43.0	43.6	43.8	43.9	44.1	44.1	44.3	44.3	44.7	45.0
GE 14000	26.8	25.3	37.7	29.4	40.8	41.6	43.0	43.6	43.8	43.9	44.1	44.1	44.3	44.3	44.7	45.0
GE 12000	27.2	26.0	38.3	40.1	41.4	42.2	43.7	44.2	44.4	44.6	44.8	44.8	45.0	45.0	45.3	45.7
GE 10000	27.8	26.6	39.1	40.9	42.3	43.1	44.7	45.3	45.6	45.8	46.0	46.0	46.2	46.2	46.6	47.0
GE 9000	29.1	37.4	39.8	41.0	43.1	44.0	45.6	46.3	46.6	46.8	47.0	47.0	47.2	47.2	47.6	48.0
GE 8000	29.8	39.4	41.9	43.8	45.7	46.6	48.1	49.1	49.3	49.6	49.8	49.8	50.0	50.0	50.3	50.8
GE 7000	30.7	40.6	43.1	45.0	47.0	47.9	49.4	50.4	50.7	50.9	51.1	51.1	51.3	51.3	51.7	52.1
GE 6000	31.1	41.2	43.8	45.7	47.7	48.6	50.1	51.2	51.4	51.7	51.9	51.9	52.1	52.1	52.4	52.9
GE 5000	32.0	42.6	45.4	47.7	49.8	50.7	52.2	53.3	53.6	53.6	54.0	54.0	54.2	54.2	54.6	55.0
GE 4500	32.9	43.9	46.9	49.1	51.6	52.6	54.1	55.4	55.7	56.0	56.2	56.2	56.4	56.4	56.8	57.2
GE 4000	33.6	44.8	47.8	50.0	52.4	53.6	55.1	56.6	56.8	57.1	57.3	57.3	57.6	57.6	57.9	58.3
GE 3500	34.7	46.7	49.8	52.3	54.8	56.0	57.6	59.0	59.2	59.6	59.8	59.8	60.0	60.0	60.3	60.8
GE 3000	37.0	50.7	54.0	56.9	59.6	60.8	62.3	64.0	64.2	64.6	64.6	64.8	65.0	65.0	65.3	65.8
GE 2500	38.7	53.2	57.2	60.4	63.1	64.6	66.2	67.9	68.1	68.4	68.7	68.7	68.9	68.9	69.2	69.7
GE 2000	40.4	55.9	60.4	63.7	66.3	68.0	69.9	71.6	71.8	72.1	72.3	72.3	72.6	72.6	72.9	73.3
GE 1800	40.9	56.7	61.3	64.6	67.3	69.0	70.9	72.6	72.8	73.1	73.3	73.3	73.6	73.6	73.9	74.3
GE 1500	42.2	58.9	64.1	67.6	70.6	72.2	74.3	76.1	76.3	76.8	77.0	77.0	77.2	77.2	77.6	78.0
GE 1200	42.6	60.2	65.7	69.1	72.2	74.0	76.1	77.9	78.1	78.6	78.8	78.8	79.0	79.0	79.3	79.8
GE 1000	43.7	62.7	68.2	71.6	75.1	77.3	79.7	81.4	81.8	82.4	82.7	82.7	82.9	83.0	83.3	83.8
GE 900	43.7	62.9	68.4	72.2	75.7	77.9	80.2	82.0	82.3	83.0	83.2	83.2	83.4	83.6	83.9	84.3
GE 800	43.9	63.8	69.3	73.3	76.9	79.3	81.7	83.6	83.9	84.6	84.8	84.8	85.0	85.1	85.4	85.9
GE 700	44.1	64.6	70.4	74.4	78.1	80.8	83.3	85.3	85.7	86.3	86.7	86.7	86.9	87.0	87.3	87.8
GE 600	44.1	64.9	70.9	75.2	78.9	81.6	84.3	86.7	87.1	88.0	88.3	88.3	88.7	88.8	89.1	89.6
GE 500	44.1	65.1	71.1	75.6	79.6	82.8	86.0	88.6	89.0	90.1	90.4	90.4	90.8	90.9	91.2	91.7
GE 400	44.1	65.1	71.3	75.8	80.0	83.4	87.1	90.2	90.8	92.1	92.7	92.7	93.0	93.2	93.6	94.0
GE 300	44.1	65.1	71.4	75.9	80.3	83.8	87.6	90.9	91.7	93.1	93.8	93.8	94.2	94.4	94.8	95.2
GE 200	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.4	95.8	96.2	97.1
GE 100	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.8	96.3	97.4	99.4
GE 0	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.8	96.3	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	29.9	34.4	36.7	36.1	39.3	39.8	40.1	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 20000	32.3	37.9	40.6	42.4	43.8	44.2	44.6	45.0	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1
GE 18000	32.3	37.9	40.6	42.6	43.9	44.3	44.7	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2
GE 16000	32.3	37.9	40.6	42.6	43.9	44.3	44.7	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2
GE 14000	32.3	37.9	40.6	42.6	43.9	44.3	44.7	45.1	45.1	45.1	45.2	45.2	45.2	45.2	45.2	45.2
GE 12000	32.7	38.3	41.0	43.1	44.4	44.9	45.2	45.7	45.7	45.7	45.8	45.8	45.8	45.8	45.8	45.8
GE 10000	34.4	40.6	43.3	45.4	46.6	47.2	47.6	48.0	48.0	48.0	48.1	48.1	48.1	48.1	48.1	48.1
GE 9000	34.4	40.6	43.3	45.7	47.0	47.4	47.8	48.2	48.2	48.2	48.3	48.3	48.3	48.3	48.3	48.3
GE 8000	36.0	42.8	45.6	47.9	49.2	49.7	50.3	50.6	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9
GE 7000	36.4	43.6	46.4	48.8	50.2	50.7	51.3	51.6	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0
GE 6000	37.1	44.4	47.4	49.8	51.2	51.7	52.3	52.6	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0
GE 5000	37.9	45.9	49.0	51.6	53.2	53.7	54.3	54.8	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0
GE 4500	38.3	47.0	50.2	52.9	54.7	55.1	55.8	56.2	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4
GE 4000	38.3	47.1	50.3	53.0	54.8	55.2	55.9	56.3	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.7
GE 3500	39.8	48.8	52.1	55.1	57.2	57.8	58.4	58.9	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2
GE 3000	41.2	50.8	54.6	57.8	60.0	60.7	61.3	61.8	61.9	62.0	62.1	62.1	62.1	62.1	62.1	62.1
GE 2500	44.2	54.9	58.7	62.0	64.4	65.2	65.9	66.4	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8
GE 2000	47.2	58.6	62.3	65.9	68.3	69.1	69.8	70.3	70.4	70.6	70.7	70.7	70.7	70.7	70.7	70.7
GE 1800	48.4	60.1	64.0	67.6	70.0	70.8	71.4	72.0	72.1	72.2	72.3	72.3	72.3	72.3	72.3	72.3
GE 1500	50.4	63.7	67.7	71.7	74.6	75.4	76.1	76.8	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1
GE 1200	51.7	66.7	70.8	75.0	78.4	79.3	80.1	80.8	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1
GE 1000	52.3	68.3	72.7	77.4	81.6	82.4	83.2	84.0	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4
GE 900	53.0	69.1	73.6	78.3	82.6	83.6	84.3	85.2	85.3	85.6	85.7	85.7	85.7	85.7	85.7	85.7
GE 800	53.2	70.1	74.9	79.7	84.3	85.4	86.6	87.4	87.6	87.8	87.9	87.9	87.9	87.9	87.9	87.9
GE 700	53.8	71.4	76.3	81.4	86.3	87.9	89.2	90.1	90.2	90.6	90.7	90.7	90.7	90.7	90.7	90.7
GE 600	53.9	71.6	76.6	81.8	87.2	88.8	90.3	91.4	91.6	92.0	92.1	92.1	92.1	92.1	92.1	92.1
GE 500	53.9	72.1	77.3	82.6	88.1	90.1	92.0	93.1	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 400	53.9	72.1	77.3	82.8	88.4	90.9	92.9	95.3	95.7	96.2	96.3	96.3	96.3	96.3	96.3	96.3
GE 300	54.0	72.3	77.6	83.0	88.7	91.3	94.6	96.4	96.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 200	54.0	72.3	77.6	83.1	88.9	91.6	94.9	97.0	97.3	98.7	98.9	99.1	99.2	99.2	99.2	99.2
GE 100	54.0	72.3	77.6	83.1	88.9	91.6	94.9	97.0	97.3	98.7	98.9	99.1	99.4	99.7	99.7	100.0
GE 0	54.0	72.3	77.6	83.1	88.9	91.6	94.9	97.0	97.3	98.7	98.9	99.1	99.4	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	32.8	37.9	39.2	40.8	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 20000	37.6	44.4	46.1	47.8	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 18000	37.7	44.6	46.2	47.9	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 16000	37.7	44.6	46.2	47.9	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 14000	37.9	44.9	46.6	48.2	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 12000	38.3	45.3	47.0	48.9	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 10000	39.8	47.1	49.0	50.9	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 9000	40.1	47.6	49.4	51.3	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 8000	41.3	49.3	51.2	53.1	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 7000	42.0	50.1	52.0	53.9	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 6000	42.6	50.8	52.7	54.6	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 5000	43.3	51.8	53.7	55.6	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 4500	44.7	53.8	56.0	57.9	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 4000	45.2	54.9	57.1	59.1	59.7	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 3500	47.6	57.3	59.6	61.6	62.1	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 3000	49.9	60.3	62.6	64.8	65.3	65.8	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 2500	53.2	65.4	67.8	70.0	70.7	71.1	71.6	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 2000	55.7	69.0	71.4	73.7	74.4	74.9	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 1800	56.6	70.9	73.3	75.7	76.6	77.0	77.6	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 1500	59.1	75.4	78.2	80.9	82.0	82.6	83.1	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 1200	60.1	77.7	80.6	83.4	84.9	85.4	86.0	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1000	61.0	80.2	83.3	86.3	88.1	88.7	89.2	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 900	61.1	80.4	83.9	87.0	88.9	89.4	90.0	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 800	61.3	81.1	84.7	87.8	89.7	90.3	91.0	91.6	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 700	61.6	81.6	85.2	88.6	90.9	92.0	92.7	93.3	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 600	61.6	81.6	85.2	88.6	91.1	92.2	93.0	93.8	94.0	94.3	94.3	94.4	94.4	94.4	94.4	94.4
GE 500	61.6	81.9	85.6	88.9	91.6	92.7	94.0	95.2	95.4	96.0	96.1	96.1	96.1	96.1	96.1	96.1
GE 400	61.6	81.9	85.6	89.3	92.0	93.1	94.9	96.6	97.0	97.8	98.0	98.0	98.0	98.0	98.0	98.1
GE 300	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.4	98.3	98.9	98.9	99.0	99.0	99.0	99.1
GE 200	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.4	99.4	99.6
GE 100	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.6	99.8	99.9
GE 0	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(IST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES														
IN	FEET	GE 1	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE
NO CEIL		33.4	39.0	40.4	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 20000	37.6	44.3	46.1	47.6	48.2	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 18000	37.6	44.6	46.3	47.8	48.4	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 16000	37.6	44.6	46.3	47.8	48.4	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 14000	37.8	44.8	46.6	48.0	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 12000	39.3	45.3	47.1	48.6	49.2	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 10000	39.7	47.2	49.1	50.6	51.2	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 9000	39.7	47.2	49.1	50.7	51.3	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 8000	41.0	48.8	50.7	52.2	52.7	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 7000	41.6	49.6	51.4	53.0	53.7	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 6000	42.1	50.2	52.2	53.8	54.4	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 5000	43.8	52.2	54.3	56.0	56.7	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 4500	46.0	54.9	57.2	59.4	60.1	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 4000	47.2	56.3	58.7	60.9	61.6	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 3500	50.3	59.4	61.8	64.6	64.7	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 3000	54.6	64.7	67.0	69.3	70.0	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 2500	57.8	69.7	72.1	75.1	76.0	76.6	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 2000	60.0	73.2	75.8	78.9	79.8	80.4	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 1800	60.2	73.9	76.4	79.7	80.6	81.2	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 1500	61.9	76.4	79.1	82.8	83.7	84.6	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1200	62.9	78.0	80.7	84.6	85.7	86.9	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1000	63.7	79.6	82.3	86.4	87.9	89.1	89.9	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 900	63.7	79.6	82.3	86.6	88.0	89.2	90.0	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 800	63.8	79.8	82.6	87.0	88.6	89.9	90.8	91.1	91.2	91.4	91.4	91.4	91.4	91.6	91.6	91.6
GE 700	63.8	79.9	82.9	87.6	89.2	90.7	91.6	91.9	92.0	92.2	92.2	92.2	92.2	92.3	92.3	92.3
GE 600	63.8	80.0	83.1	87.9	90.1	91.6	92.7	93.2	93.3	93.7	93.7	93.7	93.7	93.8	93.8	93.8
GE 500	63.8	80.4	83.6	88.4	90.9	92.6	94.6	95.2	95.3	95.8	95.8	95.8	95.9	95.9	95.9	95.9
GE 400	63.8	80.4	83.6	88.8	91.2	93.6	95.7	97.3	97.6	98.0	98.0	98.0	98.1	98.1	98.1	98.1
GE 300	63.8	80.4	83.6	89.0	91.4	93.8	96.0	97.8	98.1	98.9	99.0	99.0	99.1	99.1	99.1	99.1
GE 200	63.8	80.4	83.6	89.0	91.4	93.8	96.0	98.0	98.3	99.1	99.2	99.2	99.3	99.3	99.3	99.3
GE 100	63.8	80.4	83.6	89.0	91.4	93.8	96.0	98.1	98.4	99.2	99.3	99.3	99.4	99.4	99.4	99.4
GE 01	63.8	80.4	83.6	89.0	91.4	93.8	96.0	98.1	98.4	99.2	99.3	99.3	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0		
NO CEIL	35.6	40.8	42.3	43.9	45.0	45.2	45.3	45.3	45.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8		
GE 20000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2		
GE 18000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2		
GE 16000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2		
GE 14000	39.1	45.0	47.7	49.4	50.7	50.9	51.0	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4		
GE 12000	39.7	45.6	48.3	50.3	51.6	51.8	51.9	51.9	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3		
GE 10000	40.4	47.0	49.9	51.9	53.1	53.4	53.6	53.6	53.6	54.0	54.0	54.0	54.0	54.0	54.0	54.0		
GE 9000	40.4	47.4	50.4	52.4	53.7	54.0	54.1	54.1	54.1	54.6	54.6	54.6	54.6	54.6	54.6	54.6		
GE 8000	42.1	50.0	53.2	55.2	56.6	56.9	57.1	57.1	57.1	57.6	57.6	57.6	57.6	57.6	57.6	57.6		
GE 7000	42.9	50.9	54.1	56.1	57.7	58.0	58.2	58.2	58.2	58.7	58.7	58.7	58.7	58.7	58.7	58.7		
GE 6000	43.2	51.3	54.6	56.6	58.1	58.4	58.8	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2		
GE 5000	45.0	53.6	56.6	58.8	60.3	60.7	61.0	61.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4		
GE 4500	47.1	55.6	59.1	61.3	63.2	63.6	64.1	64.1	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6		
GE 4000	47.8	57.0	60.3	62.6	64.4	64.8	65.6	65.6	65.6	66.0	66.0	66.0	66.0	66.0	66.0	66.0		
GE 3500	50.1	59.6	63.1	65.3	67.3	67.7	68.4	68.4	68.4	68.9	68.9	68.9	68.9	68.9	68.9	68.9		
GE 3000	53.1	63.7	67.2	69.4	71.4	71.8	72.6	72.6	72.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1		
GE 2500	55.2	68.0	71.9	74.7	76.8	77.2	78.1	78.1	78.1	79.0	79.0	79.0	79.0	79.0	79.0	79.0		
GE 2000	56.3	70.4	74.3	77.2	79.6	80.4	81.4	81.7	81.7	82.3	82.3	82.3	82.3	82.3	82.4	82.4		
GE 1800	56.7	70.9	74.8	77.8	80.1	81.1	82.2	82.4	82.4	83.1	83.1	83.1	83.1	83.1	83.2	83.2		
GE 1500	57.9	73.1	77.0	80.3	83.0	84.0	85.1	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.1	86.1		
GE 1200	58.6	74.3	78.2	81.7	84.4	85.6	86.8	87.0	87.0	87.7	87.7	87.7	87.7	87.7	87.8	87.8		
GE 1000	58.7	74.7	78.6	82.4	85.4	86.7	88.0	88.2	88.2	88.9	89.0	89.0	89.0	89.0	89.1	89.1		
GE 900	58.7	74.8	78.8	82.8	85.8	87.0	88.3	88.7	88.7	89.3	89.4	89.4	89.4	89.4	89.6	89.6		
GE 800	58.9	75.0	79.2	83.2	86.4	87.7	89.1	89.4	89.4	90.1	90.2	90.2	90.2	90.2	90.3	90.3		
GE 700	58.9	75.0	79.3	83.4	86.6	88.2	89.8	90.2	90.2	90.9	91.0	91.0	91.0	91.0	91.1	91.1		
GE 600	58.9	75.0	79.4	83.6	87.3	89.3	91.3	91.8	91.8	92.4	92.6	92.6	92.6	92.6	92.7	92.7		
GE 500	58.9	75.0	79.9	84.0	88.6	90.7	93.4	93.9	93.9	94.6	94.8	94.8	94.8	94.8	94.9	94.9		
GE 400	58.9	75.0	80.0	84.6	89.4	91.7	95.0	95.9	95.9	96.4	97.3	97.3	97.3	97.3	97.4	97.4		
GE 300	58.9	75.0	80.0	84.6	89.6	91.8	95.1	96.0	96.2	97.3	98.0	98.1	98.1	98.1	98.2	98.2		
GE 200	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.0	99.1	99.1	99.1	99.2	99.2		
GE 100	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.1	99.2	99.3	99.3	99.6	99.9		
GE 0	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.1	99.2	99.3	99.3	99.6	100.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	36.4	46.0	40.3	49.0	50.9	51.0	51.1	51.2	51.2	51.4	51.4	51.4	51.7	51.7	51.7	51.7
GE 20000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8
GE 18000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8
GE 16000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8
GE 14000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8
GE 12000	37.8	48.6	51.2	52.6	53.9	54.0	54.1	54.2	54.2	54.4	54.4	54.4	54.7	54.7	54.7	54.7
GE 10000	38.6	49.4	52.3	53.9	55.2	55.3	55.4	55.6	55.6	55.8	55.8	55.8	56.0	56.0	56.0	56.0
GE 9000	38.6	49.7	52.6	54.1	55.4	55.6	55.7	55.8	55.8	56.0	56.0	56.0	56.2	56.2	56.2	56.2
GE 8000	38.9	50.8	53.8	55.3	56.9	57.0	57.1	57.2	57.2	57.4	57.4	57.4	57.7	57.7	57.7	57.7
GE 7000	39.8	51.9	55.0	56.6	58.2	58.3	58.6	58.7	58.7	58.9	58.9	58.9	59.1	59.1	59.1	59.1
GE 6000	40.9	53.4	56.6	58.1	59.8	59.9	60.1	60.2	60.2	60.4	60.4	60.4	60.7	60.7	60.7	60.7
GE 5000	42.3	55.9	59.0	60.7	62.3	62.4	62.7	62.8	62.8	63.0	63.0	63.0	63.2	63.2	63.2	63.2
GE 4500	44.2	58.8	62.4	64.2	66.2	66.4	66.8	66.9	66.9	67.1	67.1	67.1	67.3	67.3	67.3	67.3
GE 4000	44.4	59.6	63.2	65.0	67.0	67.2	67.6	67.7	67.7	67.9	67.9	67.9	68.1	68.1	68.1	68.1
GE 3500	46.8	62.6	66.3	68.2	70.2	70.4	70.8	70.9	70.9	71.1	71.1	71.1	71.3	71.3	71.3	71.3
GE 3000	48.4	64.8	68.8	70.7	72.8	73.0	73.3	73.4	73.4	73.7	73.7	73.7	73.9	73.9	73.9	73.9
GE 2500	50.2	69.6	73.8	76.0	78.1	78.3	78.8	78.9	78.9	79.2	79.2	79.2	79.4	79.4	79.4	79.4
GE 2000	51.3	71.7	76.0	78.4	80.8	81.0	81.4	81.6	81.6	81.9	81.9	81.9	82.1	82.1	82.1	82.1
GE 1800	51.4	72.7	77.2	79.7	82.0	82.2	82.7	82.8	82.8	83.1	83.1	83.1	83.3	83.3	83.3	83.3
GE 1500	51.9	73.7	78.3	80.9	83.6	83.8	84.3	84.6	84.6	84.9	84.9	84.9	85.1	85.1	85.1	85.1
GE 1200	52.2	74.3	79.1	82.0	84.7	84.9	85.4	85.7	85.7	86.0	86.0	86.0	86.2	86.2	86.2	86.2
GE 1000	52.4	75.2	80.4	83.6	86.3	86.6	87.2	87.4	87.4	87.8	87.8	87.8	88.0	88.0	88.0	88.0
GE 900	52.6	75.6	80.9	84.0	86.8	87.0	87.7	87.9	87.9	88.2	88.2	88.2	88.4	88.4	88.4	88.4
GE 800	52.6	75.8	81.2	84.3	87.1	87.3	88.1	88.4	88.4	88.8	88.8	88.8	89.0	89.0	89.0	89.0
GE 700	52.6	75.9	81.3	84.4	87.6	87.8	88.8	89.1	89.1	89.4	89.4	89.4	89.7	89.7	89.7	89.7
GE 600	52.6	76.1	81.9	85.0	88.1	88.4	89.9	90.4	90.4	90.9	90.9	90.9	91.1	91.1	91.1	91.1
GE 500	52.6	76.3	82.3	85.7	89.1	89.7	91.3	92.0	92.0	92.4	92.4	92.4	92.7	92.7	92.7	92.7
GE 400	52.6	77.0	83.3	86.7	91.0	91.9	93.7	94.9	94.8	95.2	95.2	95.2	95.4	95.4	95.4	95.4
GE 300	52.6	77.1	83.4	87.0	91.7	92.6	94.6	95.8	95.8	96.2	96.2	96.2	96.4	96.4	96.4	96.4
GE 200	52.6	77.1	83.4	87.0	91.8	92.8	94.9	96.2	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9
GE 100	52.6	77.1	83.4	87.1	91.9	93.0	95.2	96.6	96.6	97.1	97.2	97.2	97.9	98.1	98.3	99.2
GE 0	52.6	77.1	83.4	87.1	91.9	93.0	95.2	96.6	96.6	97.1	97.2	97.3	98.0	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	31.9	39.7	41.4	43.0	44.0	44.2	44.6	44.8	44.8	45.0	45.1	45.1	45.2	45.2	45.3	45.3	
GE 20000	34.4	43.2	45.3	47.1	48.2	48.4	48.8	49.0	49.1	49.3	49.3	49.3	49.4	49.5	49.5	49.6	
GE 18000	34.4	43.2	45.3	47.1	48.3	48.5	48.9	49.1	49.1	49.3	49.4	49.4	49.4	49.5	49.6	49.6	
GE 16000	34.4	43.2	45.3	47.1	48.3	48.5	48.9	49.1	49.1	49.3	49.4	49.4	49.5	49.5	49.6	49.6	
GE 14000	34.5	43.3	45.4	47.2	48.4	48.6	49.0	49.2	49.2	49.4	49.5	49.5	49.6	49.6	49.7	49.7	
GE 12000	34.9	44.0	46.1	48.0	49.1	49.4	49.8	50.0	50.0	50.2	50.3	50.3	50.4	50.4	50.5	50.6	
GE 10000	35.9	45.3	47.6	49.5	50.7	51.0	51.4	51.7	51.7	51.9	52.0	52.0	52.1	52.1	52.2	52.2	
GE 9000	36.0	45.7	48.0	49.9	51.1	51.5	51.9	52.1	52.1	52.3	52.4	52.4	52.5	52.5	52.6	52.7	
GE 8000	37.4	47.6	50.0	51.9	53.3	53.6	54.1	54.3	54.3	54.6	54.6	54.6	54.8	54.8	54.8	54.9	
GE 7000	38.1	48.6	51.0	52.9	54.4	54.7	55.2	55.4	55.5	55.7	55.8	55.8	55.9	55.9	56.0	56.0	
GE 6000	38.8	49.5	51.9	53.9	55.3	55.7	56.2	56.4	56.5	56.7	56.8	56.8	56.9	56.9	57.0	57.0	
GE 5000	40.0	51.2	53.6	55.9	57.5	57.8	58.3	58.7	58.7	58.9	59.0	59.0	59.1	59.1	59.2	59.3	
GE 4500	41.3	53.2	55.9	58.2	59.9	60.4	61.0	61.3	61.3	61.6	61.7	61.7	61.8	61.8	61.8	61.9	
GE 4000	41.9	54.1	56.9	59.2	60.9	61.4	62.0	62.4	62.4	62.7	62.7	62.7	62.8	62.8	62.9	63.0	
GE 3500	43.8	56.5	59.3	61.7	63.5	64.0	64.7	65.0	65.0	65.3	65.4	65.4	65.5	65.5	65.6	65.6	
GE 3000	45.9	59.5	62.6	65.1	66.9	67.4	68.1	68.5	68.6	68.8	68.9	68.9	69.0	69.0	69.1	69.2	
GE 2500	48.3	63.6	67.0	69.6	71.8	72.4	73.1	73.6	73.6	73.9	74.0	74.0	74.1	74.1	74.2	74.3	
GE 2000	50.1	66.4	69.9	72.8	74.9	75.6	76.4	76.9	76.9	77.2	77.3	77.3	77.4	77.4	77.5	77.6	
GE 1800	50.7	67.5	71.2	74.1	76.3	76.9	77.8	78.2	78.3	78.6	78.7	78.7	78.8	78.8	78.9	79.0	
GE 1500	52.0	70.0	73.9	77.2	79.5	80.2	81.1	81.6	81.7	82.0	82.1	82.1	82.2	82.2	82.3	82.4	
GE 1200	52.8	71.7	75.7	79.1	81.7	82.5	83.4	84.0	84.0	84.3	84.5	84.5	84.6	84.6	84.7	84.8	
GE 1000	53.4	73.3	77.5	81.2	84.1	85.0	86.0	86.6	86.7	87.1	87.2	87.2	87.3	87.4	87.5	87.6	
GE 900	53.6	73.6	78.0	81.6	84.7	85.6	86.6	87.3	87.3	87.8	87.9	87.9	88.0	88.1	88.2	88.3	
GE 800	53.7	74.1	78.7	82.6	85.6	86.6	87.7	88.4	88.5	89.0	89.1	89.1	89.2	89.3	89.4	89.5	
GE 700	53.9	74.6	79.3	83.3	86.6	87.8	89.0	89.8	89.8	90.3	90.5	90.5	90.6	90.6	90.7	90.8	
GE 600	53.9	74.8	79.6	83.7	87.2	88.5	89.9	90.9	91.0	91.5	91.7	91.7	91.8	91.9	92.0	92.1	
GE 500	53.9	75.0	80.0	84.2	88.0	89.4	91.3	92.4	92.5	93.2	93.3	93.3	93.5	93.5	93.6	93.7	
GE 400	53.9	75.2	80.3	84.8	88.8	90.6	93.0	94.5	94.8	95.5	95.8	95.8	96.0	96.0	96.2	96.3	
GE 300	53.9	75.3	80.4	85.0	89.2	91.0	93.6	95.2	95.6	96.5	96.9	96.9	97.1	97.2	97.3	97.5	
GE 200	53.9	75.3	80.4	85.0	89.3	91.1	93.7	95.5	96.0	96.9	97.5	97.6	97.9	98.0	98.2	98.5	
GE 100	53.9	75.3	80.4	85.1	89.3	91.1	93.8	95.6	96.1	97.0	97.6	97.7	98.3	98.4	98.9	99.6	
GE 01	53.9	75.3	80.4	85.1	89.3	91.1	93.8	95.6	96.1	97.0	97.7	97.7	98.3	98.5	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	29.4	39.1	41.3	42.3	42.7	43.0	43.0	43.2	43.2	43.7	43.7	43.7	44.4	44.4	44.7	44.9
GE 20000	30.8	41.1	47.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9
GE 18000	30.8	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9
GE 16000	30.8	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9
GE 14000	30.8	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9
GE 12000	31.3	41.9	44.2	45.3	45.7	46.0	46.0	46.2	46.2	46.7	46.7	46.7	47.4	47.4	47.7	48.0
GE 10000	31.8	42.6	45.1	46.0	46.7	47.0	47.0	47.2	47.2	47.6	47.6	47.6	48.4	48.4	48.7	48.9
GE 9000	32.2	43.0	45.5	46.5	47.1	47.4	47.4	47.6	47.6	48.1	48.1	48.1	48.8	48.8	49.1	49.4
GE 8000	33.7	45.1	47.6	48.6	49.7	50.0	50.0	50.2	50.2	50.6	50.6	50.6	51.4	51.4	51.7	51.9
GE 7000	34.4	45.9	48.5	49.5	50.6	51.0	51.0	51.2	51.2	51.6	51.6	51.6	52.4	52.4	52.7	52.9
GE 6000	35.1	46.6	49.1	50.1	51.3	51.6	51.7	51.9	51.9	52.4	52.4	52.4	53.1	53.1	53.4	53.7
GE 5000	36.2	49.2	51.8	53.0	54.5	54.8	54.9	55.2	55.2	55.6	55.6	55.6	56.3	56.3	56.7	56.9
GE 4500	38.4	52.5	55.3	56.5	58.0	58.3	58.5	58.7	58.7	59.1	59.1	59.1	59.9	59.9	60.2	60.4
GE 4000	38.8	53.3	56.1	57.3	58.8	59.1	59.4	59.6	59.6	60.0	60.0	60.0	60.8	60.8	61.1	61.3
GE 3500	40.9	55.7	58.5	59.7	61.2	61.6	61.8	62.0	62.0	62.5	62.5	62.5	63.2	63.2	63.5	63.8
GE 3000	43.9	60.4	63.2	64.5	66.0	66.6	67.0	67.2	67.2	67.6	67.6	67.6	68.4	68.4	68.7	68.9
GE 2500	48.1	66.3	69.4	70.5	72.4	72.9	73.3	73.7	73.7	74.1	74.1	74.1	74.8	74.8	75.2	75.4
GE 2000	51.1	70.8	73.9	75.2	77.1	77.6	78.4	78.8	78.8	79.2	79.2	79.2	80.0	80.0	80.3	80.5
GE 1800	51.8	72.3	75.6	77.1	79.1	79.7	80.4	80.9	80.9	81.3	81.3	81.3	82.0	82.0	82.4	82.6
GE 1500	53.3	76.3	80.3	82.2	84.2	84.7	85.6	86.0	86.0	86.5	86.5	86.5	87.2	87.2	87.5	87.7
GE 1200	54.2	78.1	82.3	84.3	86.3	87.0	87.8	88.4	88.4	88.8	88.8	88.8	89.6	89.6	89.9	90.1
GE 1000	54.7	79.6	84.0	86.0	88.2	88.8	89.9	90.4	90.4	90.9	90.9	90.9	91.6	91.6	91.9	92.2
GE 900	54.9	80.2	84.7	87.1	89.2	89.9	91.0	91.5	91.5	91.9	91.9	91.9	92.7	92.7	93.0	93.2
GE 800	55.1	80.3	84.8	87.2	89.4	90.0	91.3	91.9	91.9	92.4	92.4	92.4	93.1	93.1	93.4	93.7
GE 700	55.1	80.8	84.5	87.4	90.0	90.6	92.0	92.9	92.9	93.3	93.3	93.3	94.1	94.1	94.4	94.6
GE 600	55.1	80.9	85.6	88.0	90.1	90.9	92.2	93.0	93.0	93.4	93.4	93.4	94.2	94.2	94.5	94.7
GE 500	55.2	81.0	85.7	88.1	90.5	91.3	92.6	93.4	93.4	93.9	93.9	93.9	94.6	94.6	94.9	95.2
GE 400	55.2	81.1	85.8	88.2	90.9	91.6	93.1	94.3	94.3	94.7	94.7	94.7	95.5	95.5	95.8	96.0
GE 300	55.2	81.1	85.8	88.6	91.4	92.2	93.7	94.8	94.8	95.4	95.4	95.4	96.1	96.1	96.5	96.7
GE 200	55.2	81.1	85.8	88.6	91.4	92.2	93.7	94.9	94.9	95.7	95.7	95.7	96.5	96.5	96.8	97.2
GE 100	55.2	81.1	85.8	88.6	91.4	92.2	93.8	95.1	95.1	95.8	95.8	95.8	96.9	96.9	97.2	98.7
GE 0	55.2	81.1	85.8	88.6	91.4	92.2	93.8	95.1	95.1	95.8	95.8	95.8	96.9	96.9	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(EST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	27.3	39.4	41.1	41.6	42.7	42.7	43.5	43.8	43.8	44.2	44.8	44.8	45.8	45.8	46.0	46.2	
GE 20000	28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7	
GE 18000	28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7	
GE 16000	28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7	
GE 14000	28.2	40.8	42.6	43.3	44.2	44.2	45.1	45.3	45.3	45.7	46.3	46.3	47.4	47.4	47.6	47.8	
GE 12000	28.6	41.2	43.0	43.8	44.6	44.6	45.5	45.7	45.7	46.1	46.8	46.8	47.8	47.8	48.1	48.3	
GE 10000	28.9	42.0	44.0	44.7	45.6	45.6	46.5	46.7	46.7	47.1	47.7	47.7	48.8	48.8	49.0	49.2	
GE 9000	28.9	42.2	44.1	44.8	45.7	45.7	46.6	46.6	46.8	47.2	47.8	47.8	48.9	48.9	49.1	49.4	
GE 8000	30.5	44.5	46.5	47.2	48.2	48.2	49.0	49.2	49.2	49.7	50.3	50.3	51.4	51.4	51.6	51.8	
GE 7000	31.4	45.6	47.6	48.4	49.5	49.5	50.3	50.5	50.5	51.0	51.6	51.6	52.8	52.8	53.0	53.2	
GE 6000	32.0	46.3	48.5	49.4	50.5	50.5	51.4	51.6	51.6	52.0	52.7	52.7	53.9	53.9	54.1	54.3	
GE 5000	33.3	48.7	50.9	51.7	53.0	53.0	53.9	54.1	54.1	54.5	55.2	55.2	56.5	56.5	56.7	56.9	
GE 4500	34.4	50.5	52.8	53.7	54.9	54.9	55.8	56.0	56.1	56.6	57.2	57.2	58.5	58.5	58.7	58.9	
GE 4000	34.5	51.7	54.0	54.8	56.1	56.1	57.3	57.5	57.6	58.1	58.7	58.7	60.0	60.0	60.2	60.4	
GE 3500	36.8	54.2	56.5	57.3	58.6	58.6	59.8	60.0	60.1	60.5	61.2	61.2	62.5	62.5	62.7	62.9	
GE 3000	39.0	57.4	59.7	60.8	62.3	62.3	63.5	63.8	63.9	64.3	64.9	64.9	66.2	66.2	66.5	66.7	
GE 2500	43.1	64.2	66.6	67.7	69.2	69.2	70.5	70.8	70.9	71.3	71.9	71.9	73.2	73.2	73.4	73.7	
GE 2000	45.5	68.7	71.5	73.0	74.8	75.1	76.5	76.7	76.9	77.3	78.1	78.1	79.4	79.4	79.6	79.8	
GE 1800	46.6	70.6	73.4	74.9	76.8	77.0	78.5	78.7	78.9	79.4	80.1	80.1	81.4	81.4	81.6	81.8	
GE 1500	48.1	73.5	76.9	78.7	80.5	80.9	82.4	82.6	82.8	83.2	84.0	84.0	85.3	85.3	85.5	85.7	
GE 1200	48.8	75.8	79.2	81.1	83.0	83.3	84.8	85.1	85.3	85.7	86.5	86.5	87.7	87.7	88.0	88.2	
GE 1000	49.4	77.0	81.0	83.1	85.4	85.8	87.5	87.7	88.0	88.5	89.4	89.4	90.6	90.6	90.9	91.1	
GE 900	49.6	77.7	81.8	84.0	86.2	86.8	88.5	88.7	88.9	89.5	90.3	90.3	91.6	91.6	91.8	92.0	
GE 800	49.7	77.8	82.2	84.3	86.8	87.4	89.2	89.5	89.7	90.2	91.1	91.1	92.4	92.4	92.6	92.8	
GE 700	49.8	78.2	82.5	84.7	87.3	88.0	89.8	90.1	90.3	90.9	91.7	91.7	93.0	93.0	93.2	93.4	
GE 600	49.9	78.4	82.8	85.1	87.7	88.6	90.4	90.8	91.0	91.5	92.4	92.4	93.7	93.7	93.9	94.1	
GE 500	49.9	78.4	82.8	85.4	88.5	89.4	91.3	92.0	92.3	92.8	93.7	93.7	94.9	94.9	95.2	95.4	
GE 400	49.9	78.6	83.1	85.8	89.0	89.9	92.3	93.3	93.5	94.2	95.1	95.1	96.3	96.3	96.6	96.8	
GE 300	49.9	78.6	83.1	85.8	89.1	90.0	92.7	93.6	94.1	94.9	95.8	95.8	97.1	97.1	97.5	97.7	
GE 200	49.9	78.6	83.1	85.8	89.1	90.0	92.7	93.6	94.1	94.9	95.9	95.9	97.2	97.2	97.8	98.2	
GE 100	49.9	78.6	83.1	85.8	89.1	90.0	92.7	93.8	94.1	94.9	96.2	96.2	97.6	97.6	98.4	99.0	
GE 0	49.9	78.6	83.1	85.8	89.1	90.0	92.7	93.8	94.1	94.9	96.2	96.2	97.6	97.6	98.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 0600-0800

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET		GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 6
NO CEIL	21.0	20.4	31.8	33.2	34.6	34.9	35.8	36.2	36.2	36.7	37.1	37.1	37.3	37.6	38.3	38.7	
GE 20000	23.9	33.9	35.3	36.7	38.1	38.4	39.2	39.9	39.9	40.3	40.8	40.8	41.0	41.3	41.9	42.4	
GE 18000	24.0	34.0	35.4	36.8	38.2	38.5	39.4	40.0	40.0	40.4	40.9	40.9	41.1	41.4	42.0	42.5	
GE 16000	24.0	34.0	35.4	36.8	38.2	38.5	39.4	40.0	40.0	40.4	40.9	40.9	41.1	41.4	42.0	42.5	
GE 14000	24.1	34.4	35.8	37.2	38.6	38.9	39.8	40.4	40.4	40.9	41.3	41.3	41.5	41.8	42.5	42.9	
GE 12000	25.1	35.4	36.8	38.2	39.6	39.9	40.8	41.4	41.4	41.8	42.3	42.3	42.5	42.8	43.4	43.9	
GE 10000	26.1	36.6	38.2	39.7	41.1	41.4	42.3	42.9	42.9	43.3	43.8	43.8	44.0	44.3	44.9	45.4	
GE 9000	26.2	36.6	38.4	39.9	41.3	41.6	42.5	43.1	43.1	43.5	44.0	44.0	44.2	44.5	45.2	45.6	
GE 8000	27.0	38.9	40.6	42.2	43.7	44.0	44.9	45.7	45.7	46.1	46.6	46.6	46.9	47.2	48.0	48.4	
GE 7000	28.4	40.9	42.7	44.2	45.9	46.2	47.2	48.0	48.0	48.4	48.8	48.8	49.1	49.5	50.2	50.6	
GE 6000	29.1	41.7	43.5	45.1	46.8	47.1	48.2	48.9	48.9	49.4	49.9	49.9	50.2	50.5	51.3	51.7	
GE 5000	30.0	42.9	44.8	46.5	48.2	48.5	49.8	50.5	50.5	51.0	51.6	51.6	51.9	52.3	53.0	53.4	
GE 4500	31.8	45.3	47.5	49.7	51.5	51.9	53.2	54.0	54.1	54.5	55.3	55.3	55.7	56.0	56.8	57.2	
GE 4000	32.5	46.9	49.1	51.3	53.1	53.5	54.8	55.6	55.7	56.1	56.9	56.9	57.3	57.6	58.4	58.8	
GE 3500	34.7	49.1	51.4	53.7	55.5	55.9	57.3	58.1	58.2	58.6	59.4	59.4	59.8	60.1	60.9	61.3	
GE 3000	36.6	53.0	55.4	57.8	59.7	60.1	61.6	62.4	62.5	62.9	63.7	63.7	64.1	64.4	65.2	65.6	
GE 2500	40.2	58.2	60.9	63.8	65.8	66.7	68.2	69.1	69.2	69.7	70.4	70.4	70.9	71.2	72.0	72.5	
GE 2000	43.3	62.8	65.7	69.0	71.2	72.0	73.5	74.5	74.6	75.1	75.8	75.8	76.2	76.6	77.4	77.8	
GE 1800	44.6	64.7	67.6	71.0	73.1	74.0	75.5	76.5	76.6	77.0	77.7	77.7	78.2	78.5	79.4	79.8	
GE 1500	46.2	67.1	70.4	74.0	76.2	77.2	79.0	80.0	80.1	80.6	81.4	81.4	81.8	82.2	83.0	83.4	
GE 1200	46.9	68.5	72.0	75.7	78.2	79.1	81.0	82.0	82.2	82.7	83.4	83.4	83.9	84.2	85.1	85.5	
GE 1000	47.2	69.8	74.0	77.8	80.5	81.6	83.5	84.6	84.7	85.3	86.0	86.0	86.5	86.8	87.6	88.1	
GE 900	47.3	70.5	74.6	78.9	81.8	83.1	85.1	86.1	86.2	86.8	87.5	87.5	88.0	88.3	89.1	89.6	
GE 800	47.4	71.1	75.4	79.8	82.8	84.1	86.0	87.1	87.2	87.7	88.5	88.5	88.9	89.4	90.2	90.6	
GE 700	47.6	71.5	76.0	80.8	84.2	85.5	87.5	88.6	88.7	89.2	90.1	90.1	90.5	91.0	91.8	92.3	
GE 600	47.6	71.7	76.5	81.2	84.8	86.2	88.6	89.9	90.1	90.8	91.6	91.6	92.0	92.5	93.3	93.8	
GE 500	47.6	71.7	76.9	81.8	85.7	87.2	89.6	91.0	91.4	92.2	93.2	93.2	93.7	94.1	94.9	95.4	
GE 400	47.6	71.8	77.0	81.9	85.8	87.3	89.8	91.2	91.6	92.6	93.7	93.7	94.1	94.5	95.4	95.8	
GE 300	47.6	71.8	77.0	81.9	85.9	87.4	89.9	91.3	91.8	93.2	94.4	94.5	95.1	95.5	96.7	97.4	
GE 200	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.6	94.7	95.3	95.7	96.9	97.6	
GE 100	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.7	94.9	95.5	96.1	97.6	99.1	
GE 0	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.7	94.9	95.5	96.2	97.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 920

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	26.6	32.3	33.4	34.4	34.6	35.3	35.5	35.8	35.9	36.1	36.1	36.1	36.2	36.2	36.3	36.3
GE 20000	29.6	35.4	36.9	37.4	38.1	38.7	39.0	39.4	39.5	39.8	39.8	39.8	39.9	39.9	40.0	40.0
GE 18000	28.9	35.7	37.2	38.2	38.4	39.0	39.4	39.7	39.8	40.1	40.1	40.1	40.2	40.2	40.3	40.3
GE 16000	28.9	35.7	37.2	38.2	38.4	39.0	39.4	39.7	39.8	40.1	40.1	40.1	40.2	40.2	40.3	40.3
GE 14000	29.2	36.0	37.5	38.5	39.7	39.4	39.7	40.0	40.1	40.4	40.4	40.4	40.5	40.5	40.6	40.6
GE 12000	30.1	37.3	38.8	39.8	40.0	40.6	41.0	41.3	41.4	41.7	41.7	41.7	41.8	41.8	41.9	41.9
GE 10000	31.1	38.5	40.1	41.2	41.5	42.2	42.5	42.6	42.9	43.2	43.2	43.2	43.3	43.3	43.4	43.4
GE 9000	31.3	38.8	40.4	41.7	42.0	42.8	43.1	43.4	43.5	43.9	43.9	43.9	44.0	44.0	44.1	44.1
GE 8000	33.0	41.2	42.9	44.2	44.7	45.6	45.9	46.3	46.5	46.6	46.8	46.8	46.9	46.9	47.0	47.0
GE 7000	34.6	43.2	44.9	46.2	46.8	47.6	48.0	48.4	48.5	48.8	48.8	48.8	48.9	48.9	49.0	49.0
GE 6000	35.3	44.0	45.7	47.0	47.5	48.4	48.7	49.1	49.2	49.6	49.6	49.6	49.7	49.7	49.8	49.8
GE 5000	36.1	44.9	46.8	48.3	48.9	49.8	50.1	50.5	50.6	51.0	51.0	51.0	51.1	51.1	51.2	51.2
GE 4500	37.4	46.6	48.4	50.1	50.9	51.7	52.0	52.7	52.8	53.1	53.1	53.1	53.2	53.2	53.3	53.3
GE 4000	38.5	47.8	49.7	51.4	52.2	53.0	53.3	54.0	54.1	54.5	54.5	54.5	54.6	54.6	54.7	54.7
GE 3500	40.5	50.2	52.2	53.9	54.7	55.6	55.9	56.6	56.7	57.1	57.1	57.1	57.3	57.3	57.4	57.4
GE 3000	42.7	53.4	55.5	57.2	58.1	58.9	59.4	60.1	60.2	60.6	60.6	60.6	60.9	60.9	61.0	61.0
GE 2500	46.9	60.0	62.3	64.1	65.1	65.9	66.3	67.2	67.3	67.7	67.7	67.7	68.0	68.0	68.1	68.1
GE 2000	51.7	66.3	68.9	71.1	72.3	73.3	73.8	74.6	74.7	75.2	75.2	75.2	75.4	75.4	75.5	75.5
GE 1800	53.7	68.6	71.4	73.9	75.1	76.2	76.7	77.5	77.6	78.1	78.1	78.1	78.3	78.3	78.4	78.4
GE 1500	56.2	73.8	77.0	79.8	81.1	82.3	82.7	83.7	83.8	84.2	84.2	84.2	84.4	84.4	84.5	84.5
GE 1200	57.0	75.6	79.1	81.9	83.2	84.4	84.8	85.8	85.9	86.5	86.5	86.5	86.7	86.7	86.8	86.8
GE 1000	57.6	76.7	80.2	83.4	85.1	86.3	86.9	88.0	88.1	88.6	88.6	88.6	88.8	88.8	88.9	88.9
GE 900	57.6	76.8	80.8	83.7	85.3	86.6	87.1	88.2	88.3	88.8	88.8	88.8	89.7	89.7	89.1	89.1
GE 800	57.7	77.8	81.8	84.8	86.6	87.8	88.5	89.6	89.7	90.2	90.2	90.2	90.4	90.4	90.5	90.5
GE 700	57.7	78.1	82.3	85.3	87.7	89.0	89.8	91.0	91.1	91.7	91.7	91.7	91.9	91.9	92.0	92.0
GE 600	57.7	78.3	82.8	85.9	88.7	90.0	91.0	92.5	92.6	93.2	93.2	93.2	93.4	93.4	93.5	93.5
GE 500	57.7	78.3	83.2	86.7	89.7	91.1	92.5	94.3	94.4	95.1	95.1	95.1	95.3	95.3	95.4	95.4
GE 400	57.7	78.4	83.3	86.8	90.0	91.7	93.1	95.7	95.8	96.9	96.9	96.9	97.1	97.1	97.2	97.2
GE 300	57.7	78.5	83.4	86.9	90.3	92.0	93.4	96.2	96.5	97.5	97.5	97.5	98.1	98.2	98.4	98.4
GE 200	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	98.1	98.3	98.8	98.9	99.5	99.5
GE 100	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	98.1	98.3	98.8	99.0	99.8	99.9
GE 0	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	98.1	98.3	98.8	99.0	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	27.5	33.4	34.1	34.1	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
GE 20000	30.9	37.6	38.3	38.4	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 18000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 16000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 14000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 12000	31.8	38.6	39.6	39.7	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 10000	33.3	40.8	41.6	41.7	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
GE 9000	34.1	41.8	42.7	42.8	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 8000	35.1	43.0	43.9	44.0	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 7000	35.8	44.3	45.2	45.3	45.7	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 6000	36.9	45.4	46.2	46.3	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 5000	37.7	46.3	47.2	47.4	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 4500	38.9	47.7	48.8	48.9	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 4000	39.5	48.5	49.7	49.9	50.4	50.6	50.6	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 3500	42.7	52.0	53.2	53.4	54.1	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 3000	46.7	57.3	58.5	58.7	59.4	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 2500	53.4	67.2	68.6	68.9	69.7	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 2000	59.8	75.6	77.2	77.5	78.3	78.7	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 1800	61.2	77.6	79.4	79.9	80.6	81.1	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 1500	63.8	82.5	84.7	85.6	86.3	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 1200	64.4	84.2	86.7	87.6	88.4	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 1000	64.7	85.3	87.7	89.1	90.0	91.0	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 900	64.7	86.0	88.6	90.1	91.0	91.9	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 800	64.9	86.5	89.2	90.8	91.6	92.6	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 700	64.9	87.0	90.0	91.6	92.8	93.8	94.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	65.1	87.1	90.1	91.8	93.1	94.1	95.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 500	65.1	87.3	90.5	92.3	93.7	94.6	96.2	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 400	65.1	87.3	90.5	92.4	93.8	94.7	96.3	98.7	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 200	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.7	99.8	99.8	99.8	99.8	99.8
GE 100	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.7	99.9	99.9	100.0	100.0	100.0
GE 0	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.7	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639G STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	30.0	35.6	36.3	36.6	36.8	36.8	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 20000	35.3	41.8	42.8	43.0	43.3	43.5	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 18000	35.4	41.9	42.9	43.1	43.4	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 16000	35.4	41.9	42.9	43.1	43.4	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 14000	35.6	42.2	43.1	43.3	43.7	43.9	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 12000	35.8	42.5	43.5	43.6	44.1	44.3	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 10000	37.7	44.9	46.0	46.2	46.6	46.8	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 9000	38.1	45.3	46.3	46.6	46.9	47.1	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 8000	38.8	46.6	47.8	48.1	48.5	48.7	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 7000	39.5	47.5	48.8	49.0	49.7	49.9	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
GE 6000	40.4	48.6	49.9	50.1	50.6	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 5000	41.3	49.6	51.1	51.3	51.9	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 4500	42.7	52.2	53.4	53.8	54.7	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 4000	43.4	52.9	54.2	54.5	55.5	55.9	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 3500	46.5	56.1	57.4	57.7	58.8	59.2	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 3000	51.6	62.2	63.5	64.0	65.2	65.6	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 2500	58.5	71.5	73.2	73.8	75.2	75.6	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 2000	63.9	79.5	81.5	82.2	83.5	84.0	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 1800	65.3	81.6	83.7	84.3	85.7	86.1	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 1500	66.8	84.9	87.0	87.8	89.2	89.7	90.5	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1200	67.0	86.2	88.5	89.7	91.2	91.6	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1000	67.2	87.4	90.0	91.4	92.9	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 900	67.2	87.6	90.3	91.7	93.2	93.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 800	67.2	87.8	90.9	92.4	93.9	94.4	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 700	67.2	88.0	91.1	92.6	94.3	94.8	96.0	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 600	67.2	88.0	91.2	92.8	94.6	95.2	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	67.2	88.2	91.4	93.0	95.3	95.9	97.2	98.2	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6
GE 400	67.2	88.2	91.4	93.0	95.3	95.9	97.3	98.5	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7
GE 100	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.8	99.9	99.9	99.9	99.9
GE 0	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1400-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	31.6	38.4	39.0	39.2	39.8	40.0	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.4	40.4
GE 20000	33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7
GE 18000	33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7
GE 16000	33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7
GE 14000	34.0	41.6	42.4	42.6	43.4	43.7	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.1	44.1
GE 12000	34.3	42.2	43.2	43.4	44.3	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.9	44.9
GE 10000	36.2	44.6	45.7	45.9	46.8	47.0	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.4	47.4
GE 9000	36.5	44.8	45.9	46.1	47.0	47.2	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.6	47.6
GE 8000	38.7	47.4	48.5	48.7	49.8	50.0	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4
GE 7000	40.3	49.6	50.6	50.9	51.9	52.2	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.6	52.6
GE 6000	41.8	51.2	52.3	52.5	53.5	53.8	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2
GE 5000	42.5	52.5	53.7	53.9	54.9	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.6
GE 4500	45.1	55.6	57.0	57.2	58.3	58.5	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9
GE 4000	45.7	56.7	58.1	58.3	59.4	59.6	59.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0
GE 3500	47.6	59.4	60.8	61.0	62.3	62.5	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	62.9
GE 3000	51.9	64.5	66.5	66.7	68.1	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7
GE 2500	58.3	72.7	74.9	75.4	76.4	77.2	77.6	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.2	78.2
GE 2000	61.6	80.0	82.5	83.0	84.6	84.9	85.5	85.7	85.7	86.0	86.0	86.0	86.0	86.0	86.1	86.1
GE 1800	62.7	81.3	84.1	84.6	86.2	86.6	87.1	87.3	87.3	87.6	87.6	87.6	87.6	87.6	87.7	87.7
GE 1500	64.0	83.0	86.2	86.8	88.4	88.9	89.6	89.8	89.8	90.2	90.2	90.2	90.2	90.2	90.3	90.3
GE 1200	64.3	83.8	87.1	87.6	89.2	89.8	90.4	90.6	90.6	91.1	91.1	91.1	91.1	91.1	91.2	91.2
GE 1000	64.9	84.6	88.3	88.8	90.5	91.2	92.2	92.4	92.4	92.9	92.9	92.9	92.9	92.9	93.0	93.0
GE 900	65.2	84.9	88.6	89.1	90.9	91.6	92.8	93.3	93.3	93.9	93.9	93.9	93.9	93.9	94.0	94.0
GE 800	65.3	85.2	88.8	89.5	91.3	92.0	93.4	94.0	94.0	94.5	94.5	94.5	94.5	94.5	94.6	94.6
GE 700	65.3	85.3	89.1	89.8	91.6	92.4	93.9	94.4	94.4	94.9	95.1	95.1	95.1	95.1	95.2	95.2
GE 600	65.3	85.3	89.1	90.0	91.8	92.6	94.2	94.7	94.7	95.4	95.5	95.5	95.5	95.5	95.6	95.6
GE 500	65.3	85.3	89.1	90.0	92.0	92.8	94.8	95.6	95.7	96.5	96.6	96.6	96.6	96.6	96.7	96.7
GE 400	65.3	85.3	89.1	90.1	92.5	93.2	95.7	96.6	96.8	97.6	97.7	97.7	97.7	97.7	97.8	97.8
GE 300	65.3	85.3	89.1	90.1	92.5	93.3	95.9	97.0	97.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4
GE 200	65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.3	98.3	98.4	98.4	98.4	98.4	98.5	98.5
GE 100	65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.4	98.4	98.8	98.8	98.8	98.8	98.9	98.9
GE 0	65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.4	98.4	98.8	98.8	98.8	98.9	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	32.2	40.0	41.3	41.8	42.7	42.7	42.7	42.8	42.8	42.9	42.9	43.0	43.2	43.2	43.7	43.9
GE 20000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.6	45.7	45.9	45.9	46.3	46.6
GE 18000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.6	45.7	45.9	45.9	46.3	46.6
GE 16000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.6	45.7	45.9	45.9	46.3	46.6
GE 14000	33.8	42.6	44.1	44.7	45.8	45.8	45.8	45.9	45.9	46.0	46.0	46.1	46.3	46.3	46.8	47.0
GE 12000	34.1	43.1	44.7	45.4	46.5	46.5	46.5	46.6	46.6	46.7	46.7	46.8	47.0	47.0	47.4	47.6
GE 10000	35.2	44.5	46.1	46.8	48.1	48.1	48.1	48.2	48.2	48.3	48.3	48.4	48.6	48.6	49.0	49.2
GE 9000	35.3	44.7	46.3	47.0	48.3	48.3	48.3	48.4	48.4	48.5	48.5	48.6	48.8	48.8	49.2	49.5
GE 8000	37.0	47.0	48.6	49.2	51.0	51.0	51.0	51.1	51.1	51.2	51.2	51.3	51.5	51.5	51.9	52.2
GE 7000	38.3	48.6	50.3	51.2	52.9	52.9	52.9	53.0	53.0	53.1	53.1	53.2	53.4	53.4	53.9	54.1
GE 6000	39.2	49.9	51.7	52.6	54.4	54.4	54.4	54.5	54.5	54.6	54.6	54.7	54.9	54.9	55.4	55.6
GE 5000	40.4	51.7	53.5	54.4	56.5	56.5	56.5	56.6	56.6	56.9	56.9	57.0	57.2	57.2	57.6	57.8
GE 4500	43.0	54.6	56.8	57.7	59.8	59.8	59.8	60.1	60.1	60.2	60.2	60.3	60.5	60.5	61.0	61.2
GE 4000	43.8	55.9	58.2	59.1	61.2	61.2	61.2	61.5	61.5	61.6	61.6	61.7	61.9	61.9	62.4	62.6
GE 3500	46.2	60.1	62.4	63.3	65.5	65.6	65.6	66.0	66.0	66.1	66.1	66.2	66.5	66.5	66.9	67.1
GE 3000	50.5	66.2	68.6	69.6	71.7	71.8	71.9	72.4	72.4	72.5	72.5	72.6	72.8	72.8	73.2	73.4
GE 2500	53.6	71.2	74.1	75.1	77.2	77.4	77.7	78.2	78.2	78.3	78.3	78.4	78.6	78.6	79.0	79.2
GE 2000	56.0	75.5	78.6	79.6	81.9	82.2	82.5	83.1	83.1	83.2	83.2	83.3	83.5	83.5	84.0	84.2
GE 1800	56.5	76.3	79.5	80.4	82.9	83.1	83.4	84.3	84.3	84.4	84.5	84.6	84.8	84.8	85.3	85.5
GE 1500	58.8	80.0	84.0	84.9	87.4	87.6	88.0	88.8	88.8	89.0	89.2	89.4	89.6	89.6	90.0	90.2
GE 1200	59.0	80.8	84.8	85.8	88.4	88.6	88.9	89.9	89.9	90.1	90.3	90.4	90.6	90.6	91.1	91.3
GE 1000	59.7	82.0	86.3	87.6	90.3	90.6	91.1	92.0	92.2	92.4	92.6	92.7	92.9	92.9	93.3	93.5
GE 900	59.8	82.5	86.9	88.3	91.1	91.5	91.9	92.9	93.0	93.2	93.4	93.5	93.8	93.8	94.2	94.4
GE 800	59.9	82.9	87.4	89.0	91.8	92.3	92.7	93.7	93.8	94.0	94.2	94.3	94.5	94.5	94.9	95.2
GE 700	59.9	83.1	87.7	89.4	92.3	92.7	93.2	94.2	94.3	94.5	94.7	94.8	95.1	95.1	95.5	95.7
GE 600	59.9	83.3	88.0	89.6	92.5	92.9	93.8	94.7	94.8	95.1	95.3	95.4	95.6	95.6	96.0	96.2
GE 500	59.9	83.3	88.1	89.7	92.6	93.0	93.9	94.8	94.9	95.2	95.4	95.5	95.7	95.7	96.1	96.3
GE 400	59.9	83.4	88.2	89.9	92.9	93.3	94.5	95.8	96.0	96.3	96.6	96.7	96.9	96.9	97.3	97.5
GE 300	59.9	83.4	88.2	89.9	92.9	93.3	94.5	95.8	96.1	96.6	96.9	97.0	97.3	97.3	97.7	98.0
GE 200	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.6	97.3	97.6	97.7	98.1	98.1	98.5	98.7
GE 100	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.7	97.5	98.1	98.2	98.5	98.5	98.9	99.8
GE C	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.7	97.5	98.1	98.2	98.5	98.5	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: OCT

HOURS(IST):

ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	28.2	36.1	37.3	37.9	38.5	38.7	39.0	39.2	39.2	39.4	39.5	39.6	39.8	39.9	40.1	40.2	
GE 20000	30.6	39.2	40.6	41.2	41.9	42.2	42.5	42.7	42.7	42.9	43.0	43.1	43.3	43.4	43.6	43.8	
GE 18000	30.7	39.3	40.7	41.3	42.0	42.3	42.6	42.8	42.8	43.0	43.1	43.1	43.4	43.5	43.7	43.8	
GE 16000	30.7	39.3	40.7	41.3	42.0	42.3	42.6	42.8	42.8	43.0	43.1	43.1	43.4	43.5	43.7	43.8	
GE 14000	30.8	39.6	40.9	41.6	42.3	42.5	42.8	43.0	43.0	43.2	43.4	43.4	43.7	43.7	44.0	44.1	
GE 12000	31.4	40.3	41.7	42.4	43.1	43.3	43.6	43.9	43.9	44.1	44.2	44.2	44.5	44.6	44.8	44.9	
GE 10000	32.5	41.8	43.3	44.0	44.8	45.0	45.3	45.6	45.6	45.8	45.9	45.9	46.2	46.3	46.5	46.6	
GE 9000	32.8	42.2	43.7	44.4	45.2	45.4	45.7	46.0	46.0	46.2	46.3	46.3	46.6	46.7	46.9	47.0	
GE 8000	34.2	44.2	45.8	46.5	47.5	47.8	48.1	48.3	48.3	48.5	48.7	48.7	49.0	49.0	49.3	49.4	
GE 7000	35.3	45.7	47.3	48.1	49.1	49.4	49.7	50.0	50.0	50.2	50.3	50.3	50.7	50.7	50.9	51.1	
GE 6000	36.2	46.7	48.4	49.1	50.2	50.5	50.8	51.1	51.1	51.3	51.4	51.5	51.8	51.8	52.1	52.2	
GE 5000	37.2	48.3	50.0	50.8	52.0	52.3	52.6	52.9	52.9	53.1	53.3	53.3	53.6	53.7	53.9	54.0	
GE 4500	39.0	50.6	52.5	53.4	54.7	55.0	55.4	55.7	55.7	56.0	56.1	56.1	56.5	56.5	56.8	56.9	
GE 4000	39.6	51.7	53.6	54.6	55.8	56.2	56.6	56.9	56.9	57.2	57.4	57.4	57.7	57.8	58.0	58.1	
GE 3500	41.9	54.6	56.5	57.5	58.8	59.2	59.7	60.0	60.0	60.3	60.4	60.4	60.8	60.8	61.1	61.2	
GE 3000	45.4	59.3	61.4	62.4	63.8	64.2	64.7	65.1	65.1	65.3	65.5	65.5	65.9	65.9	66.2	66.3	
GE 2500	50.3	66.4	68.7	69.9	71.4	71.9	72.5	72.9	72.9	73.2	73.4	73.4	73.8	73.8	74.1	74.2	
GE 2000	54.1	72.4	75.0	76.3	78.0	78.5	79.2	79.7	79.7	80.0	80.2	80.2	80.6	80.6	80.9	81.0	
GE 1800	55.3	74.1	76.8	78.3	79.9	80.5	81.2	81.7	81.8	82.0	82.2	82.3	82.6	82.7	82.9	83.1	
GE 1500	57.2	77.6	80.8	82.5	84.2	84.8	85.6	86.1	86.2	86.5	86.7	86.7	87.1	87.1	87.4	87.5	
GE 1200	57.7	79.1	82.5	84.2	86.0	86.6	87.5	88.0	88.1	88.4	88.6	88.6	89.0	89.0	89.3	89.4	
GE 1000	58.2	80.3	84.0	85.9	87.9	88.6	89.6	90.2	90.2	90.6	90.8	90.8	91.2	91.2	91.5	91.6	
GE 900	58.3	80.8	84.6	86.6	88.6	89.4	90.4	91.1	91.1	91.5	91.7	91.7	92.1	92.1	92.4	92.5	
GE 800	58.4	81.2	85.1	87.2	89.3	90.1	91.2	91.9	92.0	92.4	92.6	92.6	93.0	93.0	93.3	93.4	
GE 700	58.4	81.5	85.5	87.7	90.0	90.9	92.1	93.0	93.0	93.4	93.7	93.7	94.0	94.1	94.3	94.5	
GE 600	58.5	81.6	85.8	88.0	90.4	91.3	92.7	93.7	93.8	94.1	94.4	94.4	94.8	94.8	95.1	95.2	
GE 500	58.5	81.7	86.0	88.4	91.0	91.9	93.5	94.7	94.8	95.3	95.6	95.6	95.9	96.0	96.3	96.4	
GE 400	58.5	81.8	86.1	88.5	91.3	92.2	94.0	95.5	95.7	96.3	96.6	96.7	97.0	97.1	97.3	97.5	
GE 300	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.8	96.1	96.8	97.2	97.2	97.6	97.7	98.0	98.2	
GE 200	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.0	97.5	97.5	98.0	98.0	98.5	98.7	
GE 100	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.1	97.6	97.7	98.2	98.4	98.9	99.5	
GE 71	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.1	97.6	97.7	98.3	98.4	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES														
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	19.9	27.1	27.9	28.0	28.1	28.1	28.4	28.4	28.4	28.4	28.4	28.4	28.8	28.8	29.0	29.3
GE 20000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.8	29.8	30.0	30.3
GE 18000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.8	29.8	30.0	30.3
GE 16000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.8	29.8	30.0	30.3
GE 14000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.8	29.8	30.0	30.3
GE 12000	20.6	28.8	29.9	30.0	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.8	30.8	31.0	31.3
GE 10000	21.8	30.3	31.4	31.6	31.7	31.7	32.0	32.0	32.0	32.0	32.0	32.0	32.3	32.3	32.6	32.9
GE 9000	21.8	30.4	31.6	31.7	31.8	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.4	32.4	32.7	33.0
GE 8000	24.3	34.1	35.2	35.4	35.6	35.6	35.9	35.9	35.9	35.9	35.9	35.9	36.2	36.2	36.4	36.8
GE 7000	25.4	35.6	36.7	36.9	37.0	37.0	37.3	37.3	37.3	37.3	37.3	37.3	37.7	37.7	37.9	38.2
GE 6000	26.2	36.3	37.4	37.7	37.8	37.8	38.1	38.1	38.1	38.1	38.1	38.1	38.4	38.4	38.7	39.0
GE 5000	28.0	38.6	39.7	39.9	40.0	40.0	40.3	40.3	40.3	40.3	40.3	40.3	40.7	40.7	40.9	41.2
GE 4500	31.1	42.8	43.9	44.1	44.2	44.2	44.6	44.6	44.6	44.6	44.6	44.6	44.9	44.9	45.1	45.4
GE 4000	31.7	43.6	44.7	44.9	45.0	45.0	45.3	45.3	45.3	45.3	45.3	45.3	45.7	45.7	45.9	46.2
GE 3500	34.1	47.3	48.6	48.8	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	49.6	49.6	49.8	50.1
GE 3000	38.3	53.2	55.0	55.2	55.4	55.4	55.8	55.8	55.8	55.8	55.8	55.8	56.1	56.1	56.3	56.7
GE 2500	45.2	63.2	65.7	66.1	66.6	66.6	66.9	66.9	66.9	66.9	66.9	66.9	67.2	67.2	67.4	67.9
GE 2000	50.7	70.9	73.4	74.0	74.4	74.4	74.8	74.8	74.8	74.8	74.8	74.8	75.1	75.1	75.3	75.8
GE 1800	53.4	75.0	77.6	78.2	78.8	78.8	79.1	79.1	79.1	79.2	79.2	79.2	79.6	79.6	79.8	80.2
GE 1500	56.1	79.2	81.9	82.6	83.3	83.4	83.8	83.8	83.8	83.9	83.9	83.9	84.2	84.2	84.4	85.0
GE 1200	56.9	80.3	83.1	83.9	84.7	84.8	85.1	85.2	85.2	85.4	85.4	85.4	85.8	85.8	86.0	86.6
GE 1000	57.4	81.4	84.3	85.6	86.3	86.7	87.1	87.2	87.2	87.4	87.4	87.4	87.8	87.8	88.0	88.6
GE 900	57.6	82.1	85.0	86.2	87.0	87.3	87.8	87.9	87.9	88.1	88.1	88.1	88.4	88.4	88.7	89.2
GE 800	57.6	82.6	85.7	87.1	87.9	88.3	88.8	88.9	88.9	89.1	89.1	89.1	89.4	89.4	89.7	90.2
GE 700	57.7	82.9	86.2	87.7	88.6	89.0	89.4	89.6	89.6	89.9	89.9	89.9	90.2	90.2	90.4	91.0
GE 600	57.7	82.9	86.6	88.2	89.2	89.6	90.2	90.6	90.6	90.9	90.9	90.9	91.2	91.2	91.4	92.0
GE 500	57.8	83.1	87.1	88.8	89.9	90.4	91.1	91.4	91.4	91.9	92.0	92.0	92.3	92.3	92.6	93.1
GE 400	57.8	83.1	87.2	89.1	90.6	91.1	92.4	93.0	93.0	93.6	94.2	94.2	94.6	94.6	94.8	95.3
GE 300	57.8	83.2	87.6	89.4	91.1	91.8	93.7	94.3	94.3	94.9	95.6	95.6	95.9	95.9	96.3	96.9
GE 200	57.8	83.2	87.6	89.6	91.2	91.9	94.0	94.9	94.9	95.6	96.2	96.2	96.6	96.6	97.4	98.2
GE 100	57.8	83.2	87.6	89.6	91.2	91.9	94.0	95.0	95.1	95.8	96.8	96.8	97.6	97.6	99.0	99.8
GE 0	57.8	83.2	87.6	89.6	91.2	91.9	94.0	95.0	95.1	95.8	96.8	96.8	97.7	97.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	20.0	28.4	29.4	29.4	29.9	29.9	30.1	30.1	30.1	30.1	30.3	30.6	30.7	30.7	30.7	30.9
GE 20000	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4
GE 18000	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4
GE 16000	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4
GE 14000	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4
GE 12000	20.7	30.1	31.1	31.1	31.6	31.6	31.6	31.6	31.6	31.6	32.0	32.2	32.3	32.3	32.3	32.6
GE 10000	21.2	31.0	32.0	32.2	32.7	32.7	33.0	33.0	33.0	33.0	33.2	33.4	33.6	33.6	33.6	33.8
GE 9000	21.3	31.2	32.2	32.4	32.9	32.9	33.2	33.2	33.2	33.2	33.4	33.7	33.8	33.8	33.8	34.0
GE 8000	23.4	34.7	35.7	35.9	36.4	36.4	36.8	36.8	36.8	36.8	37.0	37.2	37.3	37.3	37.3	37.6
GE 7000	24.9	36.8	37.8	38.0	38.6	38.6	38.9	38.9	38.9	38.9	39.1	39.3	39.4	39.4	39.4	39.7
GE 6000	25.4	37.4	38.4	38.6	39.2	39.2	39.6	39.6	39.6	39.6	39.8	40.0	40.1	40.1	40.1	40.3
GE 5000	27.6	39.9	40.9	41.1	41.7	41.7	42.0	42.0	42.0	42.0	42.2	42.4	42.6	42.6	42.6	42.8
GE 4500	28.8	41.6	42.6	43.0	43.7	43.7	44.0	44.0	44.0	44.0	44.2	44.4	44.6	44.6	44.6	44.8
GE 4000	29.3	42.6	43.8	44.0	44.7	44.7	45.0	45.0	45.0	45.0	45.2	45.4	45.6	45.6	45.6	45.8
GE 3500	31.4	45.4	46.8	47.0	47.7	47.7	48.0	48.0	48.1	48.1	48.3	48.6	48.7	48.7	48.8	49.0
GE 3000	34.8	50.6	52.7	52.9	53.7	53.7	54.0	54.0	54.1	54.1	54.3	54.6	54.7	54.7	54.8	55.0
GE 2500	41.9	60.6	63.0	63.2	64.1	64.1	64.4	64.4	64.6	64.6	64.8	65.0	65.1	65.1	65.2	65.6
GE 2000	47.4	69.4	72.1	72.6	73.6	73.7	74.0	74.0	74.1	74.1	74.3	74.6	74.7	74.7	74.8	75.1
GE 1800	48.8	72.1	74.9	75.3	76.3	76.4	76.8	76.8	76.9	76.9	77.1	77.3	77.4	77.4	77.6	77.9
GE 1500	52.7	77.8	80.6	81.0	82.3	82.6	83.1	83.2	83.3	83.3	83.6	83.8	83.9	83.9	84.0	84.3
GE 1200	53.7	79.4	82.4	82.9	84.2	84.4	85.0	85.1	85.2	85.3	85.7	85.9	86.0	86.0	86.1	86.4
GE 1000	53.9	81.1	84.3	84.8	86.2	86.4	87.0	87.2	87.3	87.4	87.9	88.1	88.2	88.2	88.3	88.7
GE 900	54.0	81.7	84.9	85.4	86.9	87.1	87.7	87.9	88.0	88.1	88.6	88.8	88.9	88.9	89.0	89.3
GE 800	54.2	82.0	85.4	86.2	87.7	87.9	88.7	88.9	89.0	89.2	89.7	89.9	90.0	90.0	90.1	90.4
GE 700	54.6	82.4	86.2	87.0	88.7	88.9	89.9	90.2	90.3	90.6	91.2	91.4	91.6	91.6	91.7	92.0
GE 600	54.6	82.7	86.7	87.4	89.2	89.4	90.4	90.8	90.9	91.1	91.8	92.0	92.2	92.2	92.3	92.7
GE 500	54.6	82.8	86.9	88.0	90.0	90.2	91.4	91.6	91.9	92.1	93.0	93.2	93.4	93.6	93.7	94.0
GE 400	54.6	82.9	87.0	88.3	90.4	90.8	92.1	92.6	92.7	93.0	93.9	94.1	94.3	94.6	94.7	95.0
GE 300	54.6	82.9	87.0	88.6	90.9	91.2	92.2	93.3	93.4	93.9	94.8	95.0	95.2	95.6	95.9	96.2
GE 200	54.6	82.9	87.0	88.6	90.9	91.2	93.2	94.0	94.1	94.8	96.4	96.7	96.9	97.2	97.6	98.1
GE 100	54.6	82.9	87.0	88.6	90.9	91.2	93.2	94.0	94.1	94.9	96.6	96.8	97.3	97.7	98.7	99.3
GE C	54.6	82.9	87.0	88.6	90.9	91.2	93.2	94.0	94.1	94.9	96.6	96.8	97.3	97.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	16.0	24.6	26.0	26.6	27.0	27.3	27.9	27.9	27.9	28.2	28.3	28.3	28.3	28.3	28.6	28.8
GE 20000	17.0	26.1	27.6	26.1	28.6	29.0	29.6	29.6	29.6	30.0	30.2	30.2	30.2	30.3	30.6	30.8
GE 18000	17.0	26.1	27.6	26.1	28.6	29.0	29.6	29.6	29.6	30.0	30.2	30.2	30.2	30.3	30.6	30.8
GE 16000	17.0	26.1	27.6	26.1	28.6	29.0	29.6	29.6	29.6	30.0	30.2	30.2	30.2	30.3	30.6	30.8
GE 14000	17.0	26.1	27.6	26.1	28.6	29.0	29.6	29.6	29.6	30.0	30.2	30.2	30.2	30.3	30.6	30.8
GE 12000	17.1	26.2	27.7	28.2	28.7	29.1	29.7	29.7	29.7	30.1	30.3	30.3	30.3	30.4	30.7	30.9
GE 10000	18.8	28.1	29.7	30.3	30.8	31.3	31.9	31.9	31.9	32.4	32.7	32.7	32.7	32.8	33.0	33.4
GE 9000	18.8	28.2	29.9	30.6	31.0	31.6	32.1	32.1	32.1	32.7	32.9	32.9	32.9	33.0	33.2	33.7
GE 8000	20.6	30.8	32.6	33.2	33.7	34.2	34.8	34.8	34.8	35.3	35.7	35.7	35.8	35.9	36.1	36.6
GE 7000	21.6	32.3	34.1	34.8	35.2	35.8	36.3	36.3	36.3	36.9	37.2	37.2	37.3	37.4	37.7	38.1
GE 6000	21.7	32.7	34.6	35.2	35.7	36.2	36.8	36.8	36.8	37.3	37.7	37.7	37.8	37.9	38.1	38.6
GE 5000	22.7	34.4	36.4	37.1	37.6	38.1	38.7	38.7	38.7	39.2	39.6	39.6	39.7	39.8	40.0	40.4
GE 4500	24.3	36.3	38.6	39.3	40.0	40.9	41.4	41.4	41.4	42.0	42.3	42.3	42.4	42.6	42.8	43.2
GE 4000	24.6	36.9	39.1	39.9	40.6	41.4	42.0	42.0	42.0	42.6	42.9	42.9	43.0	43.1	43.3	43.8
GE 3500	26.1	39.1	41.3	42.1	42.8	43.7	44.2	44.3	44.6	45.1	45.6	45.6	45.7	45.8	46.0	46.4
GE 3000	29.7	43.8	46.3	47.1	48.0	48.9	49.4	49.6	49.8	50.3	50.8	50.8	50.9	51.0	51.2	51.7
GE 2500	36.2	53.8	57.0	58.1	59.1	60.2	61.0	61.1	61.3	61.9	62.3	62.3	62.4	62.6	62.8	63.2
GE 2000	41.7	63.2	66.7	68.4	69.4	70.7	71.4	71.6	71.8	72.3	72.8	72.8	72.9	73.0	73.2	73.7
GE 1800	43.3	66.4	70.0	72.0	73.0	74.6	75.4	75.6	75.8	76.3	76.8	76.8	76.9	77.0	77.2	77.7
GE 1500	45.4	70.2	74.0	76.4	77.8	79.4	80.4	80.9	81.1	81.7	82.1	82.1	82.2	82.3	82.6	83.0
GE 1200	46.6	72.2	76.6	79.0	80.4	82.3	83.3	83.9	84.1	84.7	85.1	85.1	85.3	85.4	85.7	86.1
GE 1000	46.7	73.0	77.6	80.2	81.8	83.6	84.9	85.6	85.8	86.4	86.9	86.9	87.1	87.2	87.4	87.9
GE 900	46.8	73.3	78.1	80.8	82.3	84.3	85.4	86.1	86.3	87.1	87.6	87.6	87.8	87.9	88.1	88.6
GE 800	47.0	74.0	78.8	81.6	83.2	85.2	86.3	87.0	87.2	88.1	88.7	88.8	89.0	89.1	89.3	89.8
GE 700	47.2	74.4	79.3	82.2	83.9	86.0	87.3	88.3	88.7	89.6	90.1	90.2	90.4	90.6	90.8	91.2
GE 600	47.4	74.9	79.9	82.9	84.7	86.9	88.2	89.3	89.7	90.6	91.2	91.4	91.7	91.8	92.0	92.4
GE 500	47.8	75.2	80.6	83.6	85.4	87.7	89.2	90.3	90.8	92.0	92.9	93.2	93.6	93.7	93.9	94.3
GE 400	47.8	75.2	80.6	83.6	85.6	87.9	89.6	90.9	91.4	92.8	93.9	94.2	94.8	94.9	95.2	95.7
GE 300	47.8	75.3	80.7	83.8	86.0	88.3	90.1	91.4	92.0	93.6	95.2	95.6	96.1	96.3	96.7	97.1
GE 200	47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.2	92.8	94.3	96.1	96.4	97.0	97.2	97.6	98.0
GE 100	47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.3	92.9	94.7	96.6	96.9	97.7	98.2	98.8	99.4
GE 0	47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.3	92.9	94.7	96.6	96.9	97.7	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET		GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL		17.0	22.6	23.3	24.3	25.1	25.6	26.0	26.2	26.3	26.8	27.0	27.1	27.1	27.1	27.1	27.1
GE 20000		18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1
GE 18000		18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1
GE 16000		18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1
GE 14000		18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1
GE 12000		19.2	25.3	26.2	27.6	28.4	29.2	29.7	29.9	30.2	30.8	31.0	31.1	31.1	31.1	31.1	31.1
GE 10000		20.4	27.0	27.9	29.3	30.2	31.0	31.4	31.7	32.0	32.6	32.8	32.9	32.9	32.9	32.9	32.9
GE 9000		20.4	27.0	27.9	29.3	30.2	31.0	31.4	31.7	32.0	32.6	32.8	32.9	32.9	32.9	32.9	32.9
GE 8000		22.9	30.6	31.4	32.9	33.9	34.7	35.2	35.4	35.8	36.3	36.6	36.7	36.7	36.7	36.7	36.6
GE 7000		23.2	31.9	32.8	34.3	35.3	36.1	36.7	36.9	37.2	37.8	38.0	38.1	38.1	38.1	38.1	38.2
GE 6000		24.0	32.2	33.2	34.6	35.8	36.6	37.1	37.3	37.7	38.2	38.4	38.6	38.6	38.6	38.6	38.7
GE 5000		25.0	33.3	34.3	35.9	36.9	37.7	38.2	38.4	38.8	39.3	39.6	39.7	39.7	39.7	39.7	39.8
GE 4500		26.4	35.6	37.1	38.7	39.9	40.9	41.4	41.9	42.2	42.9	43.1	43.2	43.2	43.2	43.2	43.3
GE 4000		26.4	35.6	37.1	38.8	40.0	41.0	41.6	42.0	42.3	43.0	43.2	43.3	43.3	43.3	43.3	43.4
GE 3500		28.9	38.8	40.6	42.2	43.4	44.6	45.1	45.6	45.9	46.6	46.8	46.9	46.9	46.9	46.9	47.0
GE 3000		32.4	43.3	45.1	46.8	48.2	49.3	49.9	50.6	50.9	51.6	51.9	51.9	51.9	51.9	51.9	52.0
GE 2500		39.2	53.8	55.8	57.6	59.4	60.8	61.4	62.1	62.4	63.1	63.3	63.4	63.4	63.4	63.4	63.6
GE 2000		43.9	62.0	64.3	66.6	68.8	70.2	70.9	71.6	71.9	72.7	72.9	73.0	73.0	73.0	73.0	73.1
GE 1800		45.3	64.2	66.7	68.9	71.3	73.1	73.8	74.4	74.8	75.6	75.8	75.9	75.9	75.9	75.9	76.0
GE 1500		46.6	67.6	70.2	72.9	75.7	77.6	78.4	79.4	79.8	80.6	80.9	81.0	81.0	81.0	81.0	81.1
GE 1200		47.4	69.0	71.7	74.3	77.2	79.3	80.3	81.4	81.9	82.7	83.0	83.1	83.2	83.2	83.2	83.3
GE 1000		48.0	70.3	73.2	76.0	79.0	81.7	82.9	84.2	84.7	85.6	85.9	86.0	86.1	86.1	86.1	86.2
GE 900		48.1	70.6	73.4	76.2	79.3	82.1	83.3	84.7	85.1	86.0	86.6	86.8	87.0	87.0	87.0	87.1
GE 800		48.3	71.0	74.1	77.1	80.2	83.0	84.2	85.6	86.0	86.9	87.8	88.1	88.4	88.4	88.4	88.6
GE 700		48.6	71.4	74.9	77.9	81.1	84.0	85.3	86.7	87.2	88.2	89.1	89.8	90.2	90.2	90.2	90.3
GE 600		48.7	71.7	75.1	78.3	81.7	84.7	86.0	87.6	88.2	89.2	90.3	91.1	91.6	91.6	91.6	91.7
GE 500		48.7	71.8	75.2	78.6	82.0	85.1	86.7	88.9	89.7	90.9	92.2	93.3	94.0	94.0	94.0	94.1
GE 400		48.7	71.9	75.3	78.7	82.6	85.7	87.4	90.2	91.2	92.7	94.2	95.3	96.1	96.2	96.2	96.3
GE 300		48.7	71.9	75.3	78.7	82.8	85.9	87.8	90.7	91.7	93.2	95.0	96.2	97.1	97.2	97.2	97.3
GE 200		48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.7	98.8	99.0	99.1
GE 100		48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.8	99.0	99.4	99.6
GE 0		48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.8	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	20.8	26.0	27.6	27.9	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
GE 20000	22.8	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 18000	22.9	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 16000	22.8	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 14000	22.9	29.1	30.7	31.0	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
GE 12000	23.3	29.6	31.2	31.6	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
GE 10000	25.4	32.2	33.9	34.2	34.4	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
GE 9000	25.6	32.3	34.0	34.3	34.6	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
GE 8000	29.0	36.4	38.1	38.4	38.7	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 7000	29.9	37.3	39.0	39.3	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 6000	29.9	37.3	39.0	39.3	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 5000	30.8	38.4	40.3	41.0	41.2	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 4500	32.1	40.4	42.7	43.3	43.6	43.6	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 4000	32.1	40.6	42.8	43.4	43.7	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 3500	34.0	42.8	45.0	45.7	46.0	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 3000	37.8	47.4	49.7	50.4	51.1	51.4	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 2500	44.1	56.8	59.6	60.6	61.2	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 2000	48.6	64.9	68.1	69.1	70.0	70.3	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 1800	50.6	68.3	71.6	72.6	73.6	74.0	74.2	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7
GE 1500	52.6	72.7	76.2	77.7	79.0	79.4	79.9	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7
GE 1200	53.0	74.0	77.9	79.6	81.0	81.4	82.3	82.7	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2
GE 1000	54.1	75.7	79.8	81.4	82.9	83.6	84.4	84.8	85.2	85.4	85.7	85.7	85.7	85.7	85.7	85.7
GE 900	54.2	76.2	80.8	82.6	84.2	84.9	85.8	86.1	86.6	86.9	87.1	87.1	87.1	87.1	87.1	87.1
GE 800	54.6	76.9	81.6	83.3	85.4	86.2	87.2	88.0	88.4	88.9	89.2	89.3	89.6	89.6	89.6	89.6
GE 700	54.8	77.2	81.9	83.8	85.9	86.7	87.6	88.7	89.2	89.7	90.1	90.3	90.7	90.7	90.7	90.7
GE 600	54.8	77.4	82.2	84.6	86.8	87.7	89.0	90.2	91.0	91.6	92.1	92.4	92.9	92.9	92.9	92.9
GE 500	54.8	77.7	82.4	85.1	87.4	88.4	89.8	91.4	92.3	92.7	94.2	94.9	95.3	95.3	95.3	95.3
GE 400	54.8	77.7	82.6	85.2	87.7	88.9	90.3	92.3	93.3	94.9	95.9	96.8	97.2	97.4	97.4	97.4
GE 300	54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.4	94.0	95.6	96.8	97.8	98.2	98.7	98.8	98.9
GE 200	54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.1	95.8	97.0	98.1	98.8	99.2	99.4	99.6
GE 100	54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.1	95.8	97.0	98.1	99.0	99.4	99.9	100.0
GE 0	54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.1	95.8	97.0	98.1	99.0	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 9JC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	21.0	26.9	27.0	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 20000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 18000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 16000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 14000	24.3	31.7	31.8	32.1	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
GE 12000	24.9	32.2	32.3	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
GE 10000	26.8	34.3	34.4	34.6	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
GE 9000	27.0	34.7	34.8	35.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 8000	30.7	39.0	39.2	39.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
GE 7000	31.8	40.3	40.6	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 6000	31.6	40.4	40.7	41.1	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 5000	32.8	41.7	41.9	42.4	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 4500	34.6	43.7	44.1	45.0	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 4000	34.7	44.1	44.6	45.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 3500	36.2	46.2	46.7	47.7	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 3000	47.3	51.6	52.2	53.2	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 2500	46.6	59.7	60.8	61.9	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 2000	52.7	69.2	70.9	72.3	73.4	73.6	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 1800	53.8	71.4	73.1	74.9	76.0	76.1	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 1500	55.1	74.0	76.1	78.2	79.4	79.8	79.9	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 1200	55.4	75.2	77.7	80.2	81.4	81.8	81.9	82.2	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 1000	56.1	76.9	79.7	82.4	84.6	84.9	85.2	85.6	86.0	86.1	86.3	86.4	86.4	86.4	86.4	86.4
GE 900	56.1	77.2	80.1	83.1	85.2	85.6	85.9	86.2	86.7	86.9	87.1	87.2	87.2	87.2	87.2	87.2
GE 800	56.2	77.4	80.3	83.4	86.0	86.4	86.7	87.3	87.9	88.2	88.4	88.6	88.8	88.8	88.8	88.8
GE 700	56.2	77.8	80.8	84.0	86.6	87.2	87.7	88.4	89.0	89.6	89.8	89.9	90.1	90.1	90.1	90.1
GE 600	56.2	77.9	81.0	84.7	87.3	88.3	88.9	90.2	90.8	91.4	91.8	92.2	92.6	92.6	92.6	92.6
GE 500	56.2	78.1	81.3	85.0	87.7	88.7	89.4	91.2	92.0	93.1	93.6	94.0	94.3	94.3	94.3	94.3
GE 400	56.2	78.1	81.4	85.1	88.0	89.2	90.2	92.1	93.2	94.7	95.4	96.1	96.6	96.6	96.6	96.6
GE 300	56.2	78.1	81.4	85.1	88.1	89.3	90.7	92.8	94.0	95.7	96.7	97.4	98.1	98.2	98.2	98.3
GE 200	56.2	78.1	81.4	85.1	88.1	89.3	90.7	92.8	94.0	95.8	97.0	97.8	98.4	98.8	99.0	99.6
GE 100	56.3	78.2	81.6	85.2	88.2	89.4	90.8	92.9	94.1	95.9	97.2	98.0	98.7	99.0	99.2	99.8
GE 0	56.3	78.2	81.6	85.2	88.2	89.4	90.8	92.9	94.1	95.9	97.2	98.0	98.7	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(IST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	21.9	27.3	28.0	28.2	28.2	28.3	28.3	28.3	29.3	28.6	28.6	28.6	28.7	28.7	28.7	28.7
GE 20000	24.7	31.4	32.2	32.4	32.4	32.6	32.6	32.6	32.6	32.8	32.8	32.8	32.9	32.9	32.9	32.9
GE 18000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 16000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 14000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 12000	25.4	32.2	33.0	33.2	33.2	33.3	33.3	33.3	33.3	33.6	33.6	33.6	33.7	33.7	33.7	33.7
GE 10000	26.4	33.7	34.4	34.7	34.7	34.8	34.8	34.8	34.8	35.0	35.0	35.0	35.1	35.1	35.1	35.1
GE 9000	26.7	34.0	34.8	35.0	35.0	35.1	35.1	35.1	35.1	35.3	35.3	35.3	35.4	35.4	35.4	35.4
GE 8000	29.1	36.7	37.4	37.7	37.7	37.8	37.8	37.8	37.8	38.0	38.0	38.0	38.1	38.1	38.1	38.1
GE 7000	29.8	37.6	38.3	38.6	38.6	38.7	38.7	38.7	38.7	38.9	38.9	38.9	39.0	39.0	39.0	39.0
GE 6000	30.1	37.9	38.7	38.9	38.9	39.0	39.0	39.0	39.0	39.2	39.2	39.2	39.3	39.3	39.3	39.3
GE 5000	31.3	39.3	40.1	40.3	40.3	40.4	40.4	40.4	40.4	40.7	40.7	40.7	40.8	40.8	40.8	40.8
GE 4500	33.3	41.9	42.7	43.3	43.6	43.7	43.7	43.7	43.7	43.9	43.9	43.9	44.0	44.0	44.0	44.0
GE 4000	33.7	42.2	43.0	43.7	44.0	44.1	44.1	44.1	44.1	44.3	44.3	44.3	44.4	44.4	44.4	44.4
GE 3500	35.2	44.8	45.7	46.6	47.0	47.1	47.1	47.1	47.1	47.3	47.3	47.3	47.4	47.4	47.4	47.4
GE 3000	41.4	52.6	53.6	54.9	55.4	55.6	55.6	55.6	55.6	55.8	55.8	55.8	55.9	55.9	55.9	55.9
GE 2500	47.6	61.7	63.1	64.6	65.7	66.0	66.0	66.0	66.0	66.2	66.2	66.2	66.3	66.3	66.3	66.3
GE 2000	52.0	67.6	69.6	71.1	72.6	72.9	72.9	73.0	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3
GE 1800	55.1	71.2	73.2	74.9	76.4	76.8	76.8	76.9	76.9	77.1	77.1	77.1	77.2	77.2	77.2	77.2
GE 1500	57.1	74.3	77.4	79.4	81.0	81.3	81.4	81.7	81.7	82.0	82.1	82.1	82.2	82.2	82.2	82.2
GE 1200	57.7	75.4	78.6	81.7	82.2	82.8	82.9	83.2	83.2	83.6	83.7	83.7	83.8	83.8	83.8	83.8
GE 1000	57.7	75.6	79.1	81.4	83.3	84.1	84.3	84.9	84.9	85.3	85.4	85.4	85.6	85.6	85.6	85.6
GE 900	57.7	75.7	79.2	81.6	83.6	84.3	84.7	85.3	85.4	85.9	86.0	86.0	86.1	86.1	86.1	86.1
GE 800	57.8	76.1	79.7	82.1	84.3	85.1	85.6	86.3	86.6	87.0	87.2	87.2	87.3	87.3	87.3	87.3
GE 700	58.1	76.4	80.3	82.8	85.2	86.2	86.8	87.6	87.8	88.4	88.7	88.7	88.8	88.8	88.8	88.8
GE 600	58.1	76.6	80.4	83.3	85.0	87.6	88.2	89.1	89.7	90.3	90.7	90.7	90.8	90.8	90.8	90.8
GE 500	58.1	76.8	80.7	84.1	87.2	89.0	90.1	91.3	92.1	93.3	93.8	93.8	94.0	94.0	94.0	94.0
GE 400	58.1	76.8	80.8	84.4	87.7	89.7	90.8	92.3	93.1	94.8	95.9	96.0	96.2	96.2	96.2	96.2
GE 300	58.1	76.8	80.9	84.6	87.9	89.9	91.2	92.9	94.1	96.2	97.4	97.6	97.9	97.9	97.9	97.9
GE 200	58.1	76.8	80.9	84.6	87.9	89.9	91.2	93.2	94.4	96.8	98.1	98.2	98.6	98.6	98.6	98.6
GE 100	58.1	76.8	80.9	84.6	87.9	89.9	91.2	93.2	94.4	97.0	98.6	98.8	99.2	99.2	99.2	99.8
GE 0	58.1	76.8	80.9	84.6	87.9	89.9	91.2	93.2	94.4	97.0	98.6	98.8	99.2	99.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/8	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/2	GE 3	GE 3 1/2	GE 4	GE 4 1/2	GE 5	GE 5 1/2	GE 6	GE 6 1/2	GE 7
NO CEIL	19.9	26.3	26.7	26.8	27.0	27.0	27.0	27.0	27.0	27.0	27.2	27.2	27.3	27.4	27.4	27.6
GE 20000	28.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.4	29.6	29.7	29.7	29.7	29.8
GE 18000	28.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.4	29.6	29.7	29.7	29.7	29.8
GE 16000	28.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.4	29.6	29.7	29.7	29.7	29.8
GE 14000	28.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.4	29.6	29.7	29.7	29.7	29.8
GE 12000	21.1	29.1	29.4	29.6	29.8	29.8	29.8	29.8	29.8	30.0	30.0	30.1	30.2	30.2	30.2	30.3
GE 10000	22.7	30.9	31.2	31.3	31.6	31.6	31.6	31.6	31.6	31.8	31.8	31.9	32.0	32.0	32.0	32.1
GE 9000	22.7	31.0	31.3	31.4	31.7	31.7	31.7	31.7	31.7	31.9	31.9	32.0	32.1	32.1	32.1	32.2
GE 8000	25.3	34.7	35.0	35.1	35.3	35.3	35.3	35.3	35.3	35.6	35.6	35.7	35.8	35.8	35.8	35.9
GE 7000	26.0	35.9	36.2	36.3	36.6	36.6	36.6	36.6	36.6	36.8	36.8	36.9	37.0	37.0	37.0	37.1
GE 6000	26.8	36.7	37.0	37.1	37.3	37.3	37.3	37.3	37.3	37.6	37.6	37.7	37.8	37.8	37.8	37.9
GE 5000	29.2	39.1	39.4	39.6	39.8	39.8	39.8	39.8	39.8	40.0	40.0	40.1	40.2	40.2	40.2	40.3
GE 4500	31.8	42.2	42.9	43.1	43.3	43.3	43.3	43.3	43.3	43.7	43.7	43.8	43.9	43.9	43.9	44.0
GE 4000	32.0	42.6	43.2	43.4	43.7	43.7	43.7	43.7	43.7	44.0	44.0	44.1	44.2	44.2	44.2	44.3
GE 3500	33.9	45.3	46.0	46.4	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.1	47.2	47.2	47.2	47.3
GE 3000	38.1	51.3	52.4	53.0	53.2	53.2	53.2	53.3	53.3	53.7	53.7	53.8	53.9	53.9	53.9	54.1
GE 2500	45.3	62.2	63.6	64.4	65.0	65.2	65.2	65.3	65.3	65.7	65.7	65.8	65.9	65.9	65.9	66.1
GE 2000	51.8	71.4	72.4	74.1	75.0	75.4	75.4	75.6	75.6	75.9	75.9	76.0	76.1	76.1	76.1	76.3
GE 1800	53.9	73.9	76.0	76.8	77.7	78.2	78.2	78.3	78.3	78.7	78.9	79.0	79.1	79.1	79.1	79.3
GE 1500	56.0	76.7	79.1	80.0	80.9	81.6	81.7	81.8	81.8	82.1	82.3	82.4	82.6	82.6	82.6	82.8
GE 1200	56.9	78.1	80.6	81.4	82.4	83.2	83.3	83.7	83.7	84.0	84.2	84.3	84.4	84.4	84.4	84.7
GE 1000	57.0	79.0	81.6	82.6	83.6	84.4	84.8	85.1	85.1	85.4	85.7	85.8	85.9	85.9	85.9	86.1
GE 900	57.1	79.3	81.9	82.9	83.9	84.8	85.1	85.6	85.6	85.9	86.1	86.2	86.3	86.3	86.3	86.6
GE 800	57.1	79.6	82.4	83.6	84.6	85.4	85.8	86.4	86.6	86.9	87.1	87.2	87.3	87.3	87.3	87.6
GE 700	57.1	79.8	83.0	84.3	85.6	86.9	87.4	88.2	88.3	88.7	88.9	89.0	89.1	89.1	89.1	89.3
GE 600	57.1	79.6	83.0	84.7	86.2	87.6	88.1	89.3	89.4	89.8	90.0	90.2	90.6	90.6	90.6	90.8
GE 500	57.1	79.8	83.1	85.1	87.2	88.8	89.6	90.9	91.0	91.7	91.9	92.1	92.4	92.4	92.4	92.7
GE 400	57.1	80.1	83.9	86.1	88.8	90.3	91.4	93.0	93.1	94.0	94.3	94.6	95.2	95.2	95.2	95.4
GE 300	57.1	80.1	84.0	86.7	89.4	91.0	92.2	94.2	94.3	95.4	95.9	96.1	97.0	97.0	97.0	97.2
GE 200	57.1	80.1	84.1	86.8	89.6	91.1	92.4	94.7	94.8	96.2	97.0	97.2	98.1	98.1	98.1	98.3
GE 100	57.1	80.1	84.1	86.8	89.6	91.1	92.6	94.8	94.9	96.3	97.2	97.4	98.6	98.6	98.6	99.0
GE 0	57.1	80.1	84.1	86.8	89.6	91.1	92.6	94.8	94.9	96.3	97.2	97.4	98.8	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	19.6	26.2	27.0	27.3	27.6	27.7	27.9	28.0	28.0	28.1	28.2	28.3	28.3	28.3	28.4	28.5
GE 20000	21.1	28.6	29.5	29.9	30.2	30.4	30.6	30.6	30.6	30.8	30.9	31.0	31.0	31.1	31.1	31.2
GE 18000	21.1	28.7	29.5	29.9	30.2	30.4	30.6	30.6	30.7	30.8	30.9	31.0	31.1	31.1	31.1	31.3
GE 16000	21.1	28.7	29.5	29.9	30.2	30.4	30.6	30.6	30.7	30.8	30.9	31.0	31.1	31.1	31.1	31.3
GE 14000	21.1	28.7	29.6	29.9	30.3	30.4	30.6	30.7	30.7	30.9	31.0	31.0	31.1	31.1	31.2	31.3
GE 12000	21.5	29.2	30.1	30.5	30.8	31.0	31.2	31.2	31.3	31.4	31.5	31.6	31.7	31.7	31.7	31.8
GE 10000	22.9	30.9	31.9	32.3	32.6	32.8	33.0	33.1	33.1	33.3	33.4	33.4	33.5	33.5	33.6	33.7
GE 9000	23.0	31.1	32.1	32.5	32.8	33.0	33.2	33.2	33.3	33.5	33.6	33.6	33.7	33.7	33.8	33.9
GE 8000	25.7	34.6	35.6	36.0	36.4	36.6	36.8	36.8	36.9	37.1	37.2	37.2	37.3	37.3	37.4	37.6
GE 7000	26.6	36.0	36.9	37.4	37.8	38.0	38.2	38.2	38.3	38.5	38.6	38.6	38.7	38.7	38.8	38.9
GE 6000	27.0	36.4	37.4	37.8	38.2	38.4	38.6	38.7	38.7	38.9	39.0	39.1	39.2	39.2	39.2	39.4
GE 5000	28.4	38.1	39.1	39.7	40.1	40.2	40.5	40.5	40.5	40.7	40.8	40.9	41.0	41.0	41.1	41.2
GE 4500	30.3	40.6	41.8	42.5	43.0	43.2	43.5	43.5	43.6	43.8	43.9	44.0	44.1	44.1	44.1	44.3
GE 4000	30.6	41.0	42.3	42.9	43.5	43.7	43.9	44.0	44.1	44.3	44.4	44.4	44.5	44.5	44.6	44.8
GE 3500	32.5	43.7	45.1	45.8	46.3	46.6	46.8	46.9	47.0	47.2	47.3	47.4	47.5	47.5	47.6	47.7
GE 3000	36.6	49.2	50.9	51.7	52.4	52.7	52.9	53.1	53.1	53.4	53.5	53.5	53.6	53.6	53.7	53.9
GE 2500	43.3	59.0	61.1	62.1	63.0	63.4	63.7	63.8	63.9	64.2	64.3	64.3	64.4	64.4	64.5	64.7
GE 2000	48.6	67.3	69.8	71.0	72.2	72.7	72.9	73.1	73.2	73.4	73.6	73.6	73.7	73.7	73.8	74.0
GE 1800	50.5	70.3	72.9	74.2	75.4	76.0	76.3	76.5	76.6	76.8	77.0	77.1	77.2	77.2	77.2	77.4
GE 1500	52.7	74.1	76.9	78.5	79.9	80.6	81.1	81.4	81.5	81.8	82.0	82.0	82.1	82.2	82.2	82.4
GE 1200	53.4	75.5	78.6	80.3	81.7	82.5	83.0	83.4	83.6	83.9	84.1	84.2	84.3	84.3	84.4	84.6
GE 1000	53.9	76.6	79.9	81.4	83.5	84.4	85.1	85.6	85.8	86.2	86.4	86.5	86.6	86.6	86.7	86.9
GE 900	53.9	77.0	80.4	82.3	84.1	85.1	85.7	86.2	86.4	86.9	87.1	87.2	87.4	87.4	87.4	87.7
GE 800	54.1	77.4	81.0	83.1	84.9	86.0	86.7	87.3	87.6	88.0	88.4	88.5	88.7	88.8	88.8	89.0
GE 700	54.3	77.8	81.6	83.7	85.7	86.9	87.7	88.5	88.8	89.3	89.7	89.9	90.1	90.2	90.2	90.4
GE 600	54.3	78.0	81.9	84.3	86.4	87.7	88.6	89.6	90.0	90.6	91.1	91.4	91.7	91.7	91.8	92.0
GE 500	54.4	78.2	82.2	84.8	87.1	88.5	89.7	90.9	91.4	92.3	92.9	93.3	93.7	93.7	93.8	94.0
GE 400	54.4	78.2	82.3	85.1	87.7	89.2	90.5	92.1	92.6	93.8	94.7	95.2	95.6	95.7	95.8	96.0
GE 300	54.4	78.3	82.4	85.3	88.0	89.6	91.1	92.8	93.5	94.8	95.9	96.4	96.9	97.1	97.3	97.5
GE 200	54.4	78.3	82.4	85.3	88.1	89.6	91.4	93.2	93.9	95.4	96.7	97.3	97.9	98.1	98.3	98.7
GE 100	54.4	78.3	82.5	85.3	88.1	89.7	91.4	93.3	94.0	95.5	97.0	97.5	98.3	98.6	99.1	99.6
GE 0	54.4	78.3	82.5	85.3	88.1	89.7	91.4	93.3	94.0	95.5	97.0	97.5	98.4	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CEIL	18.8	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
GE 20000	19.5	24.0	24.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
GE 18000	19.6	24.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
GE 16000	19.6	24.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
GE 14000	19.7	24.2	24.2	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
GE 12000	20.6	25.4	25.4	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 10000	21.2	26.3	26.3	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
GE 9000	21.2	26.5	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
GE 8000	22.5	28.0	28.0	28.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
GE 7000	22.7	28.2	28.2	28.4	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
GE 6000	23.3	28.9	28.9	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
GE 5000	24.1	30.2	30.2	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE 4500	26.1	32.7	32.7	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 4000	26.1	32.9	32.9	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 3500	27.2	34.7	34.6	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 3000	30.9	40.8	41.3	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 2500	36.3	49.0	49.9	51.3	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 2000	39.8	58.4	60.1	62.3	63.7	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 1800	42.0	62.0	64.4	67.1	69.0	69.5	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9
GE 1500	45.1	67.1	69.9	72.6	75.3	75.8	76.5	77.2	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.5
GE 1200	47.2	71.0	74.1	77.1	80.2	80.8	81.5	82.3	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7
GE 1000	47.5	72.3	75.5	79.0	82.3	82.8	83.5	84.7	84.9	85.2	85.4	85.4	85.5	85.5	85.5	85.5
GE 900	47.6	73.1	76.5	80.0	83.3	83.9	84.7	86.1	86.3	86.6	86.8	86.8	86.9	86.9	86.9	86.9
GE 800	47.6	73.7	77.1	80.8	84.6	85.2	86.2	87.6	88.1	88.5	88.7	88.7	88.8	88.8	88.8	88.8
GE 700	47.8	74.1	77.6	81.5	85.4	85.9	87.1	88.6	89.0	89.8	90.0	90.0	90.1	90.1	90.1	90.1
GE 600	47.8	74.2	77.7	81.7	85.6	86.2	87.8	89.5	90.0	91.0	91.2	91.3	91.4	91.4	91.4	91.4
GE 500	47.8	74.5	78.4	82.5	86.9	87.5	89.1	90.8	91.5	92.5	92.9	93.2	93.3	93.3	93.3	93.3
GE 400	47.8	74.7	78.8	82.9	87.4	88.3	90.0	91.6	92.8	94.1	94.7	95.1	95.2	95.2	95.2	95.2
GE 300	47.8	74.7	78.9	83.0	88.0	88.9	91.3	93.1	94.5	95.8	96.5	96.8	97.0	97.0	97.0	97.0
GE 200	47.8	74.7	78.9	83.0	88.0	88.9	91.4	93.5	94.9	96.3	97.1	97.4	98.0	98.1	98.3	98.3
GE 100	47.8	74.7	78.9	83.0	88.0	88.9	91.4	93.5	94.9	96.5	97.4	97.7	98.4	98.5	98.7	99.2
GE 0	47.8	74.7	78.9	83.0	88.0	88.9	91.4	93.5	94.9	96.5	97.4	97.7	98.4	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES														
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	15.7	20.6	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	21.1
GE 20000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6
GE 18000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6
GE 16000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6
GE 14000	16.3	21.4	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.8
GE 12000	16.7	21.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	22.2
GE 10000	17.7	23.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.7
GE 9000	17.7	23.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.7
GE 8000	19.7	25.1	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.5
GE 7000	20.0	25.8	26.0	26.0	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.6
GE 6000	20.6	26.5	26.7	26.7	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.2
GE 5000	21.8	28.0	28.3	28.3	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.8
GE 4500	23.4	30.3	30.8	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.4
GE 4000	23.4	30.5	31.1	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.7
GE 3500	25.2	33.2	33.6	33.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.4
GE 3000	28.1	38.6	39.2	39.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.2
GE 2500	32.6	46.6	47.8	48.7	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	50.0
GE 2000	37.6	56.3	58.5	60.2	61.6	61.7	62.3	62.6	62.6	62.7	62.9	62.9	62.9	62.9	63.1
GE 1800	39.6	59.9	62.5	64.4	65.9	66.0	66.6	67.1	67.1	67.2	67.4	67.4	67.5	67.5	67.7
GE 1500	43.7	66.6	69.9	72.6	74.6	74.7	75.5	76.3	76.3	76.7	76.9	76.9	77.1	77.1	77.3
GE 1200	45.9	71.2	74.9	76.2	77.6	77.6	78.0	78.7	78.8	79.1	79.3	79.3	79.5	79.5	79.8
GE 1000	47.1	74.4	78.3	82.0	84.9	85.3	86.1	87.3	87.4	88.1	88.3	88.3	88.5	88.5	88.7
GE 900	47.2	75.4	79.2	83.0	86.1	86.5	87.4	88.6	88.7	89.4	89.6	89.6	89.8	89.8	90.0
GE 800	47.2	75.4	79.4	83.4	86.8	87.2	88.2	89.4	89.5	90.2	90.4	90.4	90.6	90.6	90.9
GE 700	47.3	75.7	79.7	83.6	87.2	87.6	88.6	89.8	89.9	90.6	91.0	91.0	91.2	91.2	91.4
GE 600	47.4	75.8	79.8	84.0	87.4	88.1	89.0	90.2	90.5	91.4	91.7	91.7	91.9	91.9	92.2
GE 500	47.4	75.8	79.8	84.1	87.5	88.2	89.4	90.5	90.9	91.8	92.5	92.6	92.8	92.8	93.0
GE 400	47.4	76.2	80.2	84.5	88.0	88.7	90.0	91.3	91.6	92.7	93.4	93.5	93.8	93.9	94.1
GE 300	47.4	76.3	80.3	84.6	88.1	88.8	90.5	92.2	92.5	93.7	94.5	94.7	94.9	95.1	95.3
GE 200	47.4	76.3	80.3	84.7	88.4	89.1	91.6	93.4	93.9	95.2	96.5	96.8	97.5	97.6	98.0
GE 100	47.4	76.3	80.3	84.7	88.4	89.1	91.7	93.5	94.0	95.4	96.8	97.1	98.2	98.3	98.9
GE 0	47.4	76.3	80.3	84.7	88.4	89.1	91.7	93.5	94.0	95.4	96.8	97.2	98.4	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726340 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS (LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	14.8	18.6	13.8	18.9	19.0	19.0	19.1	19.4	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
GE 20000	15.2	18.9	19.1	19.2	19.4	19.4	19.5	19.7	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
GE 18000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 16000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 14000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 12000	15.9	19.7	19.9	20.0	20.1	20.1	20.2	20.4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
GE 10000	16.9	21.5	21.7	21.8	21.9	21.9	22.0	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 9000	16.9	21.5	21.7	21.8	21.9	21.9	22.0	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 8000	18.0	23.8	24.0	24.1	24.2	24.3	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
GE 7000	19.7	25.5	25.7	25.8	25.9	26.0	26.1	26.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
GE 6000	19.7	25.5	25.7	25.8	25.9	26.1	26.2	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
GE 5000	21.1	27.5	27.7	27.8	28.0	28.2	28.5	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 4500	22.6	29.2	29.6	29.7	29.8	30.0	30.3	30.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
GE 4000	22.9	30.1	30.4	30.5	30.6	30.9	31.2	31.5	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 3500	25.1	33.3	33.6	33.9	34.1	34.3	34.6	34.9	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 3000	27.3	36.2	36.7	37.1	37.5	37.7	38.1	38.4	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 2500	31.9	45.5	46.6	47.1	48.3	48.7	49.1	49.6	49.7	49.8	49.9	49.9	49.9	49.9	49.9	49.9
GE 2000	36.2	53.1	54.7	55.7	57.6	58.3	58.9	60.2	60.3	60.6	60.9	60.9	60.9	60.9	60.9	61.0
GE 1800	38.2	57.4	59.6	60.5	63.0	63.7	64.4	65.8	65.9	66.2	66.6	66.6	66.6	66.6	66.6	66.7
GE 1500	41.4	63.5	65.7	67.3	70.4	71.1	72.0	73.9	74.2	74.7	75.3	75.3	75.3	75.3	75.3	75.4
GE 1200	42.8	67.1	69.5	71.3	74.8	75.6	76.9	79.0	79.4	80.0	80.6	80.6	80.6	80.6	80.6	80.8
GE 1000	43.9	69.2	72.4	74.4	78.7	79.9	81.3	83.7	84.0	85.1	85.7	85.7	85.7	85.7	85.7	85.8
GE 900	44.1	69.8	72.0	75.4	79.8	81.0	82.4	84.7	85.1	86.1	86.8	86.8	86.8	86.9	86.9	87.0
GE 800	44.3	70.5	72.9	76.6	81.7	83.2	84.7	87.2	87.5	88.7	89.4	89.4	89.4	89.5	89.6	89.7
GE 700	44.4	70.8	74.3	77.3	82.2	83.7	85.4	87.8	88.3	89.5	90.2	90.3	90.3	90.4	90.5	90.6
GE 600	44.4	70.9	74.5	77.3	82.5	84.2	85.9	88.5	88.9	90.1	90.9	91.0	91.1	91.2	91.3	91.4
GE 500	44.4	71.2	75.1	77.8	83.1	85.2	87.1	89.7	90.2	91.4	92.4	92.5	92.6	92.7	92.8	93.0
GE 400	44.4	71.4	75.4	78.4	83.8	86.0	88.0	90.9	91.4	92.9	93.9	94.1	94.3	94.4	94.5	94.7
GE 300	44.4	71.5	75.5	78.5	84.0	86.5	88.5	91.9	92.5	94.4	95.7	96.0	96.2	96.3	96.6	96.9
GE 200	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.2	95.5	97.2	97.5	98.0	98.2	98.4	98.7
GE 100	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.3	95.7	97.5	97.8	98.5	98.7	98.9	99.5
GE 0	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.3	95.7	97.5	97.8	98.6	98.8	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(DST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET		GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL		17.3	20.1	20.3	20.5	20.9	21.7	22.0	22.2	22.3	22.4	22.4	22.4	22.5	22.5	22.5	22.5
GE 20000		18.6	21.7	21.9	22.3	22.7	23.5	23.9	24.0	24.1	24.2	24.2	24.2	24.3	24.3	24.3	24.3
GE 18000		18.7	22.0	22.3	22.6	23.0	23.9	24.2	24.3	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6
GE 16000		18.7	22.0	22.3	22.6	23.0	23.9	24.2	24.3	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6
GE 14000		18.9	22.3	22.5	22.8	23.2	24.1	24.4	24.5	24.6	24.7	24.7	24.7	24.8	24.8	24.8	24.8
GE 12000		19.0	22.7	22.9	23.2	23.7	24.5	24.8	24.9	25.1	25.2	25.2	25.2	25.3	25.3	25.3	25.3
GE 10000		20.2	24.4	24.7	25.1	25.6	26.5	26.8	26.9	27.0	27.1	27.1	27.1	27.2	27.2	27.2	27.2
GE 9000		20.3	24.7	25.1	25.4	25.9	26.8	27.1	27.2	27.3	27.4	27.4	27.4	27.5	27.5	27.5	27.5
GE 8000		21.8	26.5	27.1	27.4	28.0	28.8	29.1	29.2	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.6
GE 7000		22.7	27.4	28.2	28.7	29.2	30.1	30.4	30.5	30.6	30.8	30.8	30.8	30.9	30.9	30.9	30.9
GE 6000		23.3	28.1	28.9	29.5	30.0	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6
GE 5000		23.9	29.0	29.9	30.4	31.0	31.8	32.2	32.3	32.4	32.5	32.5	32.5	32.6	32.6	32.6	32.6
GE 4500		24.5	30.0	30.4	31.4	32.0	32.9	33.2	33.3	33.4	33.5	33.5	33.5	33.7	33.7	33.7	33.7
GE 4000		24.6	30.5	31.5	32.0	32.7	33.5	33.9	34.0	34.1	34.2	34.2	34.2	34.3	34.3	34.3	34.3
GE 3500		25.9	32.5	33.8	34.3	34.9	35.8	36.1	36.2	36.5	36.6	36.6	36.6	36.7	36.7	36.7	36.7
GE 3000		29.4	38.2	39.6	40.1	40.9	42.2	42.6	42.7	42.9	43.0	43.0	43.0	43.1	43.1	43.1	43.1
GE 2500		32.9	43.4	45.4	46.1	47.5	49.0	49.9	50.4	50.8	51.0	51.0	51.0	51.1	51.1	51.1	51.1
GE 2000		35.8	49.4	52.5	53.6	55.4	57.2	58.5	59.1	59.5	60.0	60.1	60.1	60.2	60.3	60.3	60.5
GE 1800		37.5	52.2	55.6	57.0	58.9	60.8	62.0	62.9	63.2	63.9	64.0	64.0	64.1	64.2	64.2	64.4
GE 1500		40.1	57.0	61.8	63.7	66.1	68.3	69.7	71.0	71.3	72.2	72.5	72.5	72.6	72.7	72.7	72.9
GE 1200		40.5	59.7	64.8	67.1	69.9	72.5	74.1	75.9	76.3	77.4	77.8	77.8	78.0	78.1	78.1	78.3
GE 1000		41.2	61.4	67.2	69.5	72.8	75.5	77.2	79.5	80.0	81.6	82.4	82.4	82.8	82.9	83.1	83.3
GE 900		41.2	61.8	67.6	70.1	73.7	76.5	78.3	80.4	81.2	83.0	84.0	84.0	84.4	84.5	84.7	84.9
GE 800		41.4	62.4	68.4	71.4	75.1	78.1	80.0	82.6	83.3	85.4	86.8	86.8	87.5	87.6	87.8	88.1
GE 700		41.4	62.5	68.5	71.8	75.6	78.7	80.9	83.4	84.3	86.3	88.2	88.3	88.9	89.0	89.2	89.5
GE 600		41.7	62.8	68.8	72.2	75.6	79.6	81.9	84.8	85.7	87.7	89.8	89.9	90.6	90.8	91.0	91.2
GE 500		41.7	63.1	69.1	72.5	77.0	80.3	82.7	85.7	86.7	88.9	91.4	91.5	92.5	92.6	92.9	93.1
GE 400		41.7	63.1	69.1	72.7	77.2	80.6	83.2	86.3	87.5	89.9	92.6	92.7	93.8	94.0	94.3	94.5
GE 300		41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.2	88.4	91.1	94.4	94.6	95.7	96.1	96.5	96.7
GE 200		41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.7	95.2	96.9	97.3	98.1	98.6
GE 100		41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.8	95.4	97.1	98.0	98.9	100.0
GE 0		41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.8	95.4	97.1	98.0	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	17.2	19.4	20.2	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
GE 20000	18.7	21.3	22.5	22.8	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
GE 18000	18.9	21.7	22.9	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
GE 16000	18.9	21.7	22.9	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
GE 14000	19.0	21.8	23.0	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
GE 12000	19.4	22.9	24.1	24.4	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
GE 10000	19.5	23.4	24.6	24.9	25.1	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
GE 9000	19.5	23.7	24.8	25.2	25.3	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
GE 8000	20.1	24.7	25.9	26.2	26.3	26.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
GE 7000	20.5	25.6	26.8	27.2	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
GE 6000	20.6	25.9	27.3	27.7	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
GE 5000	21.2	26.8	28.2	28.6	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
GE 4500	21.5	27.3	28.7	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
GE 4000	21.6	27.7	29.1	29.7	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
GE 3500	22.5	28.7	30.4	31.0	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
GE 3000	24.8	32.6	34.4	34.9	35.6	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 2500	29.7	39.5	41.4	42.6	43.4	43.8	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 2000	35.1	51.1	53.9	55.5	57.0	57.5	58.9	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 1800	37.8	55.7	58.6	60.5	62.0	62.8	64.4	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 1500	40.0	61.1	65.1	67.8	70.0	71.1	73.1	74.5	74.5	74.8	75.2	75.2	75.2	75.2	75.2	75.2
GE 1200	40.3	63.2	67.5	70.4	73.1	74.8	77.3	78.8	78.8	79.4	79.9	79.9	79.9	79.9	79.9	79.9
GE 1000	40.4	65.1	69.7	72.9	75.7	77.5	80.2	81.9	82.0	82.9	83.8	83.8	83.8	83.8	83.8	83.8
GE 900	40.4	65.3	70.0	74.1	77.1	78.9	81.7	83.4	83.7	84.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 800	40.4	65.7	70.4	74.9	78.3	80.1	83.0	84.9	85.3	86.1	87.5	87.5	87.6	87.6	87.6	87.6
GE 700	40.4	65.8	70.5	75.4	79.0	80.9	84.0	86.0	86.3	87.5	88.9	88.9	89.2	89.2	89.2	89.2
GE 600	40.4	65.9	71.0	76.0	79.7	81.7	84.8	87.0	87.4	88.8	90.3	90.4	90.9	91.0	91.0	91.0
GE 500	40.4	66.0	71.1	76.5	80.4	82.6	85.9	88.2	88.6	90.3	91.8	91.9	92.7	92.8	92.8	92.8
GE 400	40.4	66.1	71.2	76.7	80.6	82.9	86.6	89.2	89.7	91.9	93.8	93.9	95.2	95.3	95.3	95.3
GE 300	40.4	66.1	71.2	76.7	80.6	83.0	86.8	89.9	90.3	92.9	95.2	95.3	96.7	96.9	97.0	97.0
GE 200	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.7	95.9	98.4	98.6	99.2	99.4
GE 100	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.8	96.0	98.5	98.8	99.7	99.9
GE 0	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.8	96.0	98.5	98.8	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	17.6	20.8	21.1	21.1	21.1	21.1	21.2	21.4	21.4	21.6	21.7	21.7	21.7	21.7	21.7	21.7
GE 20000	19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7
GE 18000	19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7
GE 16000	19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7
GE 14000	20.2	23.8	24.5	24.5	24.5	24.5	24.6	24.8	24.8	25.1	25.2	25.2	25.2	25.2	25.2	25.2
GE 12000	20.8	24.7	25.5	25.5	25.5	25.5	25.6	25.8	25.8	26.0	26.1	26.1	26.1	26.1	26.1	26.1
GE 10000	21.0	24.9	25.7	25.7	25.7	25.7	25.8	26.0	26.0	26.2	26.3	26.3	26.3	26.3	26.3	26.3
GE 9000	21.3	25.3	26.0	26.0	26.0	26.0	26.1	26.3	26.3	26.6	26.7	26.7	26.7	26.7	26.7	26.7
GE 8000	22.2	26.5	27.3	27.4	27.5	27.5	27.6	27.8	27.8	28.1	28.2	28.2	28.2	28.2	28.2	28.2
GE 7000	22.9	27.7	28.6	28.7	28.8	28.8	28.9	29.1	29.1	29.4	29.5	29.5	29.5	29.5	29.5	29.5
GE 6000	23.2	28.3	29.1	29.2	29.4	29.4	29.5	29.7	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0
GE 5000	24.1	29.5	30.3	30.5	30.6	30.6	30.8	31.0	31.0	31.2	31.3	31.3	31.3	31.3	31.3	31.3
GE 4500	25.5	31.4	32.3	32.5	32.6	32.6	32.7	32.9	32.9	33.1	33.2	33.2	33.2	33.2	33.2	33.2
GE 4000	25.7	31.6	32.5	32.7	32.8	32.8	32.9	33.1	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4
GE 3500	26.8	33.5	34.5	34.7	35.1	35.1	35.2	35.4	35.4	35.6	35.7	35.7	35.7	35.7	35.7	35.7
GE 3000	28.8	37.5	38.8	39.2	39.6	39.6	39.7	39.9	39.9	40.1	40.2	40.2	40.2	40.2	40.2	40.2
GE 2500	33.9	46.8	48.5	49.8	50.3	50.4	50.6	50.9	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2
GE 2000	38.5	57.0	59.2	61.2	62.0	62.3	62.8	63.1	63.1	63.4	63.5	63.5	63.5	63.5	63.5	63.5
GE 1800	40.2	60.5	63.3	65.4	66.3	66.7	67.2	67.5	67.5	68.3	68.4	68.4	68.4	68.4	68.4	68.4
GE 1500	42.0	65.1	68.5	70.9	72.5	73.2	74.1	75.1	75.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
GE 1200	42.2	66.1	70.1	72.6	74.7	75.6	76.6	77.8	78.2	79.4	79.7	79.7	79.7	79.7	79.8	79.8
GE 1000	42.5	67.8	71.9	74.6	77.3	78.6	79.9	81.5	82.0	83.3	83.8	83.8	83.8	83.8	83.9	83.9
GE 900	42.5	68.2	72.3	75.1	78.4	79.8	81.4	83.0	83.5	84.8	85.5	85.5	85.5	85.5	85.6	85.6
GE 800	42.5	68.4	72.9	75.8	79.1	80.8	82.5	84.1	84.9	86.5	87.4	87.4	87.4	87.6	87.7	87.7
GE 700	42.5	68.5	73.0	76.1	79.7	81.5	83.3	85.1	85.9	87.6	89.2	89.5	89.9	90.0	90.1	90.1
GE 600	42.5	68.5	73.2	76.7	80.4	82.3	84.3	86.3	87.3	89.2	91.1	91.3	91.9	92.0	92.2	92.2
GE 500	42.5	68.8	73.7	77.2	81.0	82.8	84.9	87.3	88.5	90.4	92.5	92.7	93.8	94.1	94.2	94.2
GE 400	42.5	68.8	73.7	77.2	81.4	83.4	85.6	88.3	89.6	92.4	94.5	94.7	96.2	96.6	96.8	96.8
GE 300	42.5	68.9	73.8	77.3	81.5	83.5	85.7	88.7	90.0	92.9	95.3	95.5	97.0	97.4	97.7	97.7
GE 200	42.5	68.9	73.6	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.0	96.2	97.7	98.4	98.8	98.8
GE 100	42.5	68.9	73.6	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.2	96.5	98.0	98.6	99.6	99.9
GE 0	42.5	68.9	73.8	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.2	96.5	98.0	98.8	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/TAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL	1	18.8	23.5	23.7	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	
GE 20000		20.8	25.7	26.2	26.6	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	
GE 18000		20.8	25.8	26.3	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	
GE 16000		20.8	25.8	26.3	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	
GE 14000		20.9	25.9	26.5	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
GE 12000		21.4	26.6	27.3	27.6	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	
GE 10000		22.3	27.7	28.3	28.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
GE 9000		22.3	27.8	28.4	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	
GE 8000		23.7	29.7	30.3	30.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	
GE 7000		24.6	30.9	31.5	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	
GE 6000		24.9	31.2	31.8	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	
GE 5000		25.1	31.5	32.2	32.5	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	
GE 4500		25.3	33.2	34.3	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	
GE 4000		25.5	33.5	34.8	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	
GE 3500		27.5	36.1	37.5	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	
GE 3000		31.1	41.3	42.6	43.4	44.3	44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	
GE 2500		35.5	49.0	51.2	52.3	53.5	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	
GE 2000		39.9	56.4	61.5	63.1	65.8	66.2	66.8	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
GE 1800		41.3	61.8	65.4	67.2	69.9	70.4	71.2	71.6	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
GE 1500		43.5	66.1	70.1	72.4	75.6	76.2	77.2	77.8	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	
GE 1200		44.2	67.4	71.6	74.2	77.4	78.4	79.6	80.5	80.8	81.2	81.2	81.2	81.3	81.3	81.3	81.3	
GE 1000		44.4	67.8	72.6	75.1	79.1	80.3	81.5	82.9	83.2	84.1	84.4	84.4	84.5	84.5	84.5	84.5	
GE 900		44.5	68.1	72.9	75.6	79.8	81.0	82.3	83.7	84.0	84.8	85.3	85.3	85.4	85.4	85.4	85.4	
GE 800		44.5	68.4	73.3	76.0	80.5	81.8	83.4	84.8	85.4	86.6	87.0	87.1	87.2	87.2	87.2	87.2	
GE 700		44.6	68.6	73.8	76.8	81.3	82.6	84.2	85.6	86.1	87.4	88.1	88.2	88.3	88.4	88.4	88.4	
GE 600		44.6	68.9	74.1	77.3	81.9	83.3	85.3	86.8	87.4	88.9	89.8	89.9	90.0	90.1	90.1	90.1	
GE 500		44.7	69.1	74.7	78.0	82.8	84.2	86.6	88.3	89.0	90.9	91.7	91.8	92.4	92.5	92.5	92.5	
GE 400		44.7	69.1	74.8	78.1	83.1	84.5	87.1	89.1	90.4	92.3	93.5	93.7	94.3	94.4	94.4	94.4	
GE 300		44.7	69.1	74.8	78.1	83.2	84.6	87.4	89.6	90.9	93.2	95.1	95.2	96.2	96.5	96.5	96.5	
GE 200		44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.3	96.9	97.0	98.3	98.6	98.6	98.6	
GE 100		44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.4	97.1	97.2	98.5	98.8	99.2	100.0	
GE 0		44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.4	97.1	97.2	98.5	98.8	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	18.1	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 20000	19.1	24.1	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
GE 18000	19.1	24.1	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
GE 16000	19.1	24.1	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
GE 14000	19.2	24.2	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
GE 12000	19.8	25.1	25.3	25.3	25.3	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
GE 10000	21.3	26.8	27.0	27.0	27.0	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
GE 9000	21.3	27.1	27.3	27.3	27.3	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
GE 8000	21.7	28.2	28.8	28.8	28.8	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
GE 7000	22.0	28.7	29.4	29.4	29.4	29.5	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
GE 6000	22.7	29.4	30.0	30.0	30.0	30.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
GE 5000	23.1	30.0	30.8	30.8	30.8	30.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
GE 4500	24.0	31.7	32.6	32.6	32.6	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
GE 4000	24.2	32.3	33.1	33.2	33.2	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
GE 3500	25.9	34.5	35.4	35.5	35.5	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 3000	28.9	39.9	41.0	41.8	41.9	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 2500	33.2	49.8	51.0	52.2	52.5	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 2000	37.7	60.0	61.9	64.1	65.2	65.4	66.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 1800	39.8	63.8	66.1	68.5	69.7	70.0	70.9	71.4	71.4	71.5	71.5	71.5	71.7	71.7	71.7	71.7
GE 1500	42.0	67.5	70.6	73.1	74.3	74.8	76.2	77.1	77.1	77.3	77.3	77.5	77.5	77.5	77.5	77.5
GE 1200	42.3	69.1	72.7	75.3	77.0	77.7	79.2	80.3	80.3	80.6	80.8	81.0	81.0	81.0	81.0	81.0
GE 1000	43.1	72.0	75.8	78.5	81.1	81.8	83.8	84.8	84.8	85.5	85.6	85.8	85.9	85.9	85.9	85.9
GE 900	43.4	72.7	76.5	79.1	81.7	82.5	84.6	85.8	85.9	86.6	86.7	86.9	87.0	87.0	87.0	87.0
GE 800	43.4	73.2	77.3	80.2	82.9	83.7	85.8	87.3	87.5	88.2	88.3	88.5	88.6	88.6	88.6	88.6
GE 700	43.4	73.3	77.6	80.6	83.7	84.4	86.6	88.3	88.7	89.4	89.5	89.8	89.9	89.9	89.9	89.9
GE 600	43.4	73.5	78.2	81.3	84.2	84.9	87.3	89.1	89.7	90.5	90.9	91.3	91.4	91.4	91.4	91.4
GE 500	43.4	73.8	78.5	81.7	84.9	85.9	88.4	90.6	91.3	92.7	93.2	93.7	93.8	93.8	93.8	93.8
GE 400	43.4	73.9	78.8	82.2	85.8	86.8	89.2	91.5	92.3	94.3	94.8	95.3	95.4	95.4	95.4	95.4
GE 300	43.4	73.9	79.0	82.4	86.1	87.2	89.8	92.0	92.8	95.3	96.0	96.5	96.6	96.8	96.8	96.8
GE 200	43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.0	97.5	98.2	98.4	98.5	98.5
GE 100	43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.3	97.8	98.5	98.7	98.8	99.6
GE 0	43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.3	97.8	98.5	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
JSAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	17.7	21.0	21.3	21.4	21.5	21.6	21.6	21.7	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8
GE 20000	18.5	22.5	22.9	23.1	23.2	23.3	23.4	23.5	23.5	23.6	23.6	23.7	23.7	23.7	23.7	23.7
GE 18000	18.5	22.7	23.1	23.2	23.3	23.4	23.5	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7
GE 16000	18.5	22.7	23.1	23.2	23.3	23.4	23.5	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7
GE 14000	18.7	22.8	23.2	23.4	23.5	23.6	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.9	23.9
GE 12000	19.2	23.6	24.0	24.2	24.3	24.4	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.6	24.7	24.7
GE 10000	20.0	24.8	25.2	25.4	25.5	25.6	25.7	25.8	25.8	25.8	25.9	25.9	25.9	25.9	25.9	25.9
GE 9000	20.1	25.0	25.4	25.6	25.7	25.8	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.1	26.1
GE 8000	21.1	26.5	27.1	27.3	27.4	27.5	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.8	27.8	27.8
GE 7000	21.9	27.5	28.0	28.3	28.5	28.6	28.7	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9
GE 6000	22.3	29.0	28.6	28.8	29.0	29.1	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4
GE 5000	23.0	29.1	29.7	29.9	30.1	30.3	30.4	30.5	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE 4500	24.1	30.7	31.5	31.8	32.0	32.2	32.3	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE 4000	24.3	31.2	31.9	32.3	32.5	32.7	32.8	32.9	32.9	33.0	33.0	33.0	33.0	33.0	33.0	33.0
GE 3500	25.8	33.3	34.2	34.6	35.0	35.1	35.2	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.5	35.5
GE 3000	28.7	38.1	39.2	39.6	40.2	40.5	40.7	40.8	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 2500	33.3	46.2	47.7	48.8	49.7	50.0	50.3	50.5	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7
GE 2000	37.6	55.5	57.8	59.5	61.1	61.6	62.3	62.8	62.9	63.1	63.1	63.2	63.2	63.2	63.2	63.3
GE 1800	39.6	59.2	61.9	63.8	65.6	66.2	67.0	67.6	67.7	68.0	68.1	68.1	68.2	68.2	68.2	68.2
GE 1500	42.2	64.2	67.7	70.0	72.4	73.2	74.3	75.4	75.5	76.0	76.2	76.2	76.2	76.3	76.3	76.3
GE 1200	43.2	66.9	70.7	73.3	76.0	77.0	78.2	79.7	79.9	80.4	80.7	80.8	80.8	80.8	80.9	80.9
GE 1000	43.8	68.8	72.5	75.0	79.0	80.2	81.7	83.3	83.6	84.5	84.9	84.9	85.1	85.1	85.1	85.2
GE 900	43.9	69.3	73.5	76.5	80.0	81.2	82.8	84.5	84.8	85.7	86.3	86.3	86.4	86.4	86.5	86.5
GE 800	43.9	69.7	74.1	77.4	81.1	82.5	84.2	86.0	86.4	87.5	88.2	88.2	88.4	88.5	88.5	88.6
GE 700	44.0	69.9	74.4	77.9	81.7	83.2	85.0	86.8	87.3	88.5	89.4	89.5	89.7	89.8	89.9	89.9
GE 600	44.0	70.1	74.7	78.3	82.3	83.8	85.8	87.8	88.4	89.7	90.7	90.8	91.2	91.2	91.2	91.3
GE 500	44.1	70.3	75.0	78.8	83.0	84.6	86.8	88.9	89.6	91.1	92.3	92.5	93.0	93.1	93.2	93.2
GE 400	44.1	70.4	75.3	79.1	83.4	85.2	87.5	89.8	90.7	92.6	93.9	94.1	94.8	94.9	95.0	95.1
GE 300	44.1	70.5	75.3	79.2	83.6	85.4	87.9	90.6	91.5	93.7	95.3	95.6	96.3	96.5	96.7	96.7
GE 200	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.0	94.4	96.4	96.7	97.9	98.1	98.5	98.6
GE 100	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.1	94.5	96.6	96.9	98.2	98.6	99.1	99.7
GE 0	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.1	94.5	96.6	97.0	98.2	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

MONTH: ALL

HOURS(IST):

ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	32.4	40.1	41.3	42.1	42.6	42.9	43.2	43.3	43.3	43.5	43.5	43.5	43.5	43.6	43.6	43.7	43.7
GE 20000	34.7	43.4	44.7	45.7	46.5	46.7	46.9	47.1	47.1	47.3	47.3	47.3	47.3	47.4	47.4	47.5	47.5
GE 18000	34.8	43.5	44.6	45.6	46.6	46.8	47.0	47.2	47.2	47.4	47.4	47.4	47.4	47.5	47.5	47.6	47.7
GE 16000	34.8	43.5	44.6	45.6	46.6	46.8	47.0	47.2	47.2	47.4	47.4	47.4	47.4	47.5	47.5	47.6	47.7
GE 14000	34.9	43.6	45.0	46.0	46.7	46.9	47.2	47.3	47.4	47.5	47.6	47.6	47.6	47.7	47.7	47.8	47.8
GE 12000	35.4	44.4	45.8	46.8	47.5	47.7	48.0	48.2	48.2	48.3	48.4	48.4	48.4	48.5	48.5	48.6	48.6
GE 10000	36.5	45.8	47.3	48.4	49.2	49.4	49.7	49.8	49.9	50.0	50.1	50.1	50.1	50.2	50.2	50.3	50.3
GE 9000	36.6	46.1	47.6	48.6	49.4	49.6	49.9	50.1	50.1	50.3	50.4	50.4	50.4	50.5	50.5	50.6	50.6
GE 8000	38.1	48.2	49.6	51.0	51.8	52.1	52.4	52.6	52.6	52.8	52.8	52.8	52.8	52.9	52.9	53.0	53.1
GE 7000	38.9	49.3	51.0	52.1	53.0	53.3	53.6	53.8	53.9	54.0	54.1	54.1	54.1	54.2	54.2	54.3	54.3
GE 6000	39.3	49.9	51.6	52.8	53.7	54.0	54.3	54.5	54.5	54.7	54.8	54.8	54.8	54.9	54.9	55.0	55.0
GE 5000	40.3	51.4	53.1	54.4	55.4	55.7	56.0	56.2	56.3	56.4	56.5	56.5	56.5	56.6	56.6	56.7	56.7
GE 4500	41.8	53.6	55.5	56.9	57.9	58.3	58.6	58.9	58.9	59.1	59.2	59.2	59.2	59.3	59.3	59.4	59.4
GE 4000	42.2	54.3	56.2	57.6	58.7	59.1	59.5	59.7	59.8	59.9	60.1	60.1	60.1	60.2	60.2	60.2	60.3
GE 3500	43.7	56.4	58.4	59.9	61.1	61.5	61.9	62.2	62.2	62.4	62.5	62.5	62.5	62.6	62.6	62.7	62.7
GE 3000	45.7	59.4	61.7	63.3	64.6	65.0	65.4	65.7	65.8	66.0	66.1	66.1	66.1	66.2	66.2	66.3	66.3
GE 2500	48.7	64.5	67.0	69.0	70.4	70.9	71.5	71.8	71.9	72.1	72.2	72.2	72.2	72.3	72.3	72.4	72.5
GE 2000	51.3	69.1	72.0	74.2	76.0	76.6	77.3	77.6	77.9	78.1	78.3	78.3	78.3	78.4	78.4	78.5	78.6
GE 1800	52.3	70.9	73.9	76.3	78.2	78.8	79.6	80.1	80.2	80.5	80.7	80.7	80.7	80.8	80.8	80.9	81.0
GE 1500	51.7	73.5	76.9	79.5	81.6	82.4	83.3	84.0	84.1	84.5	84.7	84.7	84.7	84.8	84.8	84.9	85.0
GE 1200	54.3	74.8	78.4	81.2	83.5	84.3	85.4	86.1	86.2	86.7	86.9	86.9	86.9	87.1	87.1	87.2	87.3
GE 1000	54.7	75.9	79.7	82.7	85.2	86.2	87.4	88.2	88.4	88.9	89.3	89.3	89.3	89.4	89.5	89.5	89.6
GE 900	54.8	76.3	80.2	83.2	85.8	86.8	88.0	88.9	89.1	89.7	90.0	90.1	90.1	90.2	90.3	90.3	90.4
GE 800	54.9	76.7	80.6	83.6	86.5	87.6	89.0	89.9	90.1	90.7	91.2	91.2	91.2	91.4	91.4	91.5	91.6
GE 700	55.0	76.9	81.0	84.3	87.1	88.3	89.7	90.8	91.0	91.7	92.2	92.2	92.2	92.4	92.4	92.5	92.6
GE 600	55.0	77.0	81.2	84.6	87.6	88.9	90.4	91.6	91.9	92.6	93.1	93.2	93.2	93.4	93.5	93.6	93.6
GE 500	55.0	77.2	81.5	85.0	88.1	89.5	91.2	92.5	92.9	93.7	94.4	94.5	94.5	94.8	94.8	94.9	95.0
GE 400	55.1	77.3	81.6	85.3	88.6	90.0	92.0	93.6	93.9	95.0	95.8	95.8	95.9	96.3	96.4	96.5	96.6
GE 300	55.1	77.3	81.7	85.4	88.8	90.3	92.4	94.1	94.6	95.8	96.7	96.9	97.3	97.4	97.4	97.6	97.7
GE 200	55.1	77.3	81.7	85.4	88.8	90.4	92.5	94.4	94.9	96.3	97.4	97.6	98.1	98.3	98.3	98.5	98.7
GE 100	55.1	77.3	81.7	85.4	88.9	90.4	92.6	94.5	95.0	96.4	97.6	97.8	98.5	98.7	98.7	99.1	99.6
GE 0	55.1	77.3	81.7	85.4	88.9	90.4	92.6	94.5	95.0	96.4	97.6	97.8	98.5	98.8	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 47643

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: JAN

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
POURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	13.8			11.9						10.3	64.0	7.7	930
03-05	12.2			11.0						11.8	65.0	7.9	927
06-08	9.4			11.6						11.7	67.3	8.1	930
09-11	8.1			13.6						14.2	64.1	8.1	927
12-14	5.9			14.4						19.9	59.8	8.2	926
15-17	6.2			16.1						16.3	59.4	8.1	929
18-20	9.5			12.4						12.6	65.0	8.0	927
21-23	10.8			13.1						10.5	65.7	7.9	927
TOTALS	9.5			13.1						13.7	63.8	8.0	7423

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
POURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	18.6			10.8						12.9	57.7	7.3	844
03-05	19.0			9.6						10.3	62.0	7.4	839
06-08	10.2			13.3						15.8	60.7	7.9	842
09-11	9.7			14.5						17.2	58.6	7.8	844
12-14	7.9			16.4						19.7	56.0	7.9	844
15-17	9.6			16.8						16.1	57.6	7.7	846
18-20	14.9			14.7						15.0	55.4	7.3	846
21-23	19.2			13.0						9.6	58.2	7.1	845
TOTALS	13.5			13.7						14.6	58.3	7.6	6750

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN
00-02	29.1			9.2						7.4	54.3	6.4
03-05	26.6			11.7						9.6	52.0	6.4
06-08	19.5			14.8						12.3	53.4	6.9
09-11	16.1			16.3						13.1	54.5	7.1
12-14	14.6			16.1						17.0	52.3	7.2
15-17	15.6			15.4						17.8	51.2	7.2
18-20	18.4			16.2						14.3	51.1	6.9
21-23	25.4			12.4						10.9	51.3	6.5
TOTALS	20.7			14.0						12.8	52.5	6.8

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN
00-02	30.7			11.7						8.9	48.7	6.0
03-05	31.1			13.3						8.0	47.6	5.9
06-08	20.6			15.8						15.5	48.2	6.7
09-11	19.3			16.6						13.6	50.6	6.8
12-14	15.8			14.8						18.5	50.9	7.2
15-17	16.1			10.9						18.2	54.8	7.4
18-20	18.0			13.9						13.9	54.3	7.1
21-23	25.1			14.9						9.7	50.3	6.3
TOTALS	22.1			14.0						13.3	50.7	6.7

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	32.0			17.4						11.0	39.5	5.5	924
03-05	28.5			16.1						12.9	40.5	5.8	925
06-08	19.3			16.6						20.0	44.2	6.7	924
09-11	15.8			22.6						19.1	42.5	6.6	930
12-14	13.1			21.5						21.3	44.1	7.0	930
15-17	12.3			21.2						24.5	42.0	7.0	930
18-20	16.6			20.5						21.3	41.4	6.7	928
21-23	26.4			16.5						14.4	40.7	5.9	929
TOTALS	20.5			19.6						18.1	41.9	6.4	7420

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	34.1			20.3						11.4	34.2	5.1	897
03-05	24.7			22.6						16.4	36.3	5.8	890
06-08	19.5			22.1						18.9	39.5	6.3	896
09-11	16.1			23.7						23.7	36.6	6.5	900
12-14	11.0			24.4						29.3	35.2	6.9	900
15-17	13.3			27.3						24.7	34.7	6.5	900
18-20	18.2			23.1						26.6	32.1	6.3	900
21-23	24.7			27.6						16.8	31.0	5.4	900
TOTALS	20.2			23.9						21.0	35.0	6.1	7183

GLOBAL CLIMATOLOGY BRANCH
USAF/TAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	39.9			18.5						12.6	29.0	4.6	923
03-05	31.8			22.7						14.9	30.6	5.1	919
06-08	19.8			22.4						23.3	34.5	6.2	919
09-11	16.1			27.2						21.2	35.4	6.3	923
12-14	9.2			35.8						21.7	33.4	6.4	928
15-17	12.3			31.6						26.7	29.2	6.3	930
18-20	19.1			23.4						26.5	31.0	6.2	930
21-23	27.1			25.9						16.9	30.1	5.3	927
TOTALS	21.9			26.0						20.5	31.7	5.8	7399

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	38.6			17.2						10.1	34.1	4.8	914
03-05	32.6			17.9						13.9	35.6	5.3	915
06-08	17.4			22.7						20.3	39.7	6.5	918
09-11	17.6			21.5						24.1	36.8	6.5	930
12-14	7.4			30.9						25.4	36.3	6.8	930
15-17	10.8			29.7						23.7	35.8	6.6	929
18-20	19.4			23.9						23.0	33.7	6.2	928
21-23	31.0			23.0						14.4	31.7	5.1	919
TOTALS	21.9			23.4						19.4	35.5	6.0	7383

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	30.1			16.5						9.7	43.6	5.7	889
03-05	31.5			13.9						8.9	45.7	5.8	889
06-08	15.0			16.8						16.8	50.6	7.1	893
09-11	11.6			20.7						17.1	50.6	7.2	898
12-14	8.2			23.7						20.9	47.2	7.3	899
15-17	8.3			22.1						22.7	46.9	7.4	900
18-20	15.6			19.5						22.5	42.4	6.9	898
21-23	26.1			20.2						10.0	43.7	5.9	894
TOTALS	18.4			19.2						16.1	46.3	6.7	7160

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	27.6			11.9						9.8	50.8	6.3	910
03-05	26.3			13.0						12.0	48.6	6.3	905
06-08	14.1			16.9						18.4	50.7	7.2	918
09-11	11.0			15.6						20.9	52.5	7.6	922
12-14	9.0			17.4						22.7	50.8	7.6	929
15-17	10.1			17.6						22.0	50.3	7.5	928
18-20	16.0			17.7						15.2	51.1	7.0	927
21-23	22.8			15.8						10.9	50.5	6.5	920
TOTALS	17.1			15.7						16.5	50.7	7.0	7359

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	15.6			8.9						10.3	65.1	7.7	889
03-05	16.9			10.0						7.5	65.6	7.5	892
06-08	11.4			13.4						9.5	65.7	7.8	896
09-11	7.7			12.0						15.9	64.4	8.2	899
12-14	8.4			12.2						18.3	61.1	8.1	895
15-17	9.1			12.3						13.0	64.7	8.1	899
18-20	11.6			11.6						12.7	64.0	7.9	895
21-23	12.3			9.5						10.5	67.7	8.0	894
TOTALS	11.6			11.2						12.3	64.8	7.9	7159

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	9.4			9.5						10.7	70.5	8.3	929
03-05	10.0			6.2						8.1	73.7	8.3	923
06-08	6.8			5.6						9.1	74.3	8.5	927
09-11	5.5			11.6						11.9	70.8	8.5	925
12-14	2.6			12.2						16.0	69.2	8.7	929
15-17	3.1			14.3						15.8	66.8	8.5	925
18-20	8.8			12.6						12.5	66.1	8.1	930
21-23	9.8			9.7						11.2	69.3	8.2	929
TOTALS	7.0			11.0						11.9	70.1	8.4	7417

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87
MONTH: ALL

		PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
	HOUPS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
JAN	ALL	9.5			13.1						13.7	63.8	8.0	7423
FEB		13.5			13.7						14.6	58.3	7.6	6750
MAR		20.7			14.0						12.8	52.5	6.8	7431
APR		22.1			14.0						13.3	50.7	6.7	7177
MAY		20.5			19.6						18.1	41.9	6.4	7420
JUN		20.2			23.9						21.0	35.0	6.1	7183
JUL		21.9			26.0						20.5	31.7	5.8	7399
AUG		21.9			23.4						19.4	35.5	6.0	7383
SEP		18.4			19.2						16.1	46.3	6.7	7160
OCT		17.1			15.7						16.5	50.7	7.0	7359
NOV		11.6			11.2						12.3	64.8	7.9	7159
DEC		7.0			11.0						11.9	70.1	8.4	7417
TOTALS		17.0			17.1						15.9	50.1	7.0	87261

PPPPPPPP	AAAAAA	RPPPPRRR	TTTTTTTT	EEEEEEEEE
PPPPPPPP	AAAAAAA	RPPPPRRR	TTTTTTTT	EEEEEEEEE
PP PP	AA AA	RR RR	TT	EE
PP PP	AA AA	RR RR	TT	EE
PPPPPPPP	AA AA	RPPPPRRR	TT	EEEEEE
PPPPPPPP	AAAAAAA	RPPPPRRR	TT	EEEEEE
PP	AAAAAAA	RR RR	TT	EE
PP	AA AA	RR RR	TT	EE
PP	AA AA	RR RR	TT	EEEEEEEEE
PP	AA AA	RR RR	TT	EEEEEEEEE

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PERCENTAGE TABULATIONS PRESENTED BY 5-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 33 FAHRENHEIT DEGREE INCREMENT.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THERMOMETERS, THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS (THOSE CONTAINING ASTERISKS).

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTATION AND DISPLAY OF STATISTICAL VALUES.

EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PRESENTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERISK INDICATES AN INCOMPLETE MONTH.

MEANS AND STANDARD DEVIATIONS FOR DRY BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MAXIMUM TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 100							.1						.0
GE 95						.6	1.9	.1					.2
GE 90					1.4	4.7	7.8	3.3	1.4				1.5
GE 85				.8	4.9	14.6	24.5	15.1	5.0	.3			5.4
GE 80				2.0	11.4	29.4	49.1	38.2	13.3	2.9			12.1
GE 75				4.9	20.0	47.5	76.2	61.5	26.0	6.6	.2		20.0
GE 70			.1	7.4	32.6	66.8	90.6	80.6	42.7	12.8	.8		27.6
GE 65		.1	1.6	14.2	46.1	83.5	98.3	95.0	62.5	21.8	1.9	.1	35.1
GE 60			4.1	22.3	64.5	94.7	99.6	98.9	80.6	38.0	5.8	.3	42.2
GE 55		.6	7.5	36.3	79.1	96.8	100.0	100.0	93.2	56.5	13.0	1.8	48.6
GE 50	.7	1.8	12.1	53.3	91.2	100.0			78.3	75.3	26.2	2.9	54.9
GE 45	2.3	4.6	22.2	69.2	97.3			100.0	100.0	89.4	38.6	5.5	60.5
GE 40	6.8	11.9	37.2	83.5	99.5					96.4	58.9	12.4	67.0
GE 35	18.4	26.2	60.1	94.8	100.0					99.5	78.6	31.6	75.7
GE 30	35.4	46.4	80.1	98.9						100.0	93.8	18.5	84.4
GE 25	55.4	66.1	90.6	99.6							98.2	77.0	90.6
GE 20	75.3	81.7	97.6	100.0							99.5	90.8	95.4
GE 15	86.8	90.5	99.1								100.0	97.5	97.8
GE 10	96.2	96.3	99.0									99.5	99.3
GE 5	98.7	99.0	100.0									100.0	99.8
GE 0	99.9	99.9											100.0
GE -5	100.0	100.0											100.0
MEAN	25.8	28.3	37.6	51.4	64.3	73.9	79.5	76.5	68.2	56.9	42.8	31.0	53.0
SD	9.443	10.049	10.401	11.945	11.381	9.286	7.272	7.466	9.491	10.376	9.919	8.833	21.147
TOTAL OBS	868	791	668	840	837	810	837	837	840	868	840	868	10104

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MINIMUM TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 70						.4	.8	.2	.2				.1
GE 65					.2	1.5	6.5	3.9	2.6				1.2
GE 60				.2	1.2	7.7	21.7	18.6	7.3	.6			4.7
GE 55			.1	.5	4.3	20.0	46.0	42.5	17.4	3.1			11.1
GE 50				2.0	12.2	42.2	70.7	64.2	35.2	9.2	.5		19.5
GE 45				4.3	26.8	63.2	88.6	82.2	53.9	19.8	3.1	.1	28.3
GE 40	.1		1.4	12.6	47.2	84.2	97.8	95.0	73.0	34.6	8.8	.5	37.6
GE 35	.2	.5	5.2	28.6	67.1	95.9	99.9	99.5	87.3	56.0	18.7	1.8	46.4
GE 30	1.4	2.7	8.9	37.7	75.6	97.5	100.0	99.6	91.9	63.5	25.8	6.7	50.7
GE 25	3.5	5.8	17.2	51.4	87.0	99.3		100.0	96.9	77.5	41.2	14.5	57.6
GE 20	11.3	14.4	36.8	76.8	98.1	100.0			100.0	94.2	65.6	28.8	68.7
GE 15	22.4	24.9	49.5	90.6	100.0					98.8	83.1	44.2	76.0
GE 10	33.3	34.4	63.4	96.7						100.0	92.7	60.5	81.7
GE 5	48.3	46.4	74.4	98.9							96.9	74.3	86.6
GE 0	63.4	60.9	85.1	99.4							98.9	84.0	91.0
GE -5	75.0	73.7	91.1	100.0							99.8	91.4	94.3
GE -10	83.8	84.3	95.3								100.0	95.4	96.6
GE -15	91.4	91.2	97.5									98.8	98.2
GE -20	96.2	96.2	99.1									99.7	99.3
GE -25	99.4	98.5	99.7									100.0	99.8
GE -30	99.9	99.7	99.8										99.9
GE -35	100.0		100.0										100.0
GE -40		99.9											100.0
MEAN	8.4	8.5	17.8	30.1	39.2	47.7	53.6	52.2	45.7	36.7	27.5	16.7	32.0
SD	12.774	13.608	12.482	8.566	6.436	7.958	7.171	7.580	9.271	8.768	8.836	11.568	18.546
TOTAL OBS	868	791	866	840	837	610	837	837	840	868	840	868	10104

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MEAN TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 54-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 85							.1						.0
GE 80						.7	2.3	.4	.5				.3
GE 75					.7	4.8	11.7	6.6	3.0				2.2
GE 70				.5	4.1	15.3	33.7	23.7	8.2	.9			7.1
GE 65				1.8	9.9	31.7	61.3	50.3	18.8	2.9			14.6
GE 60			.1	3.7	20.4	54.1	87.8	75.5	37.4	8.4	.1		23.7
GE 55			.5	8.2	36.1	80.1	97.7	94.1	60.2	18.3	1.4	.1	32.7
GE 50			1.0	16.4	57.7	94.7	100.0	99.4	80.7	37.8	5.1	.6	40.8
GE 45	.1	.4	5.2	31.7	79.7	99.5		99.9	93.8	56.3	14.0	1.6	48.4
GE 40	.7	1.9	12.1	53.6	93.9	100.0		100.0	99.0	80.3	30.4	4.3	56.1
GE 35	3.6	6.6	26.0	78.0	99.3				100.0	94.6	54.5	12.7	64.4
GE 30	14.4	18.0	47.2	90.8	100.0					99.2	74.3	30.2	72.7
GE 25	28.0	33.2	63.1	96.9						100.0	90.7	50.8	80.2
GE 20	43.1	47.4	78.9	99.4							97.0	68.2	86.2
GE 15	60.4	63.8	90.2	100.0							99.3	82.6	91.4
GE 10	76.2	81.0	95.5								99.9	92.6	95.4
GE 5	87.7	89.8	96.6								100.0	97.9	97.8
GE 0	94.4	94.2	99.4									99.5	99.0
GE -5	98.8	98.5	99.8										99.8
GE -10	99.9	99.7	100.0									100.0	100.0
GE -15	100.0	99.9											100.0
GE -20		100.0											100.0
MEAN	17.3	18.6	27.9	41.0	52.0	61.1	66.8	64.6	57.2	47.0	35.4	24.1	42.8
SD	10.503	11.070	10.458	9.270	8.863	7.631	6.270	6.534	8.436	8.523	8.493	9.594	19.348
TOTAL OBS	868	791	868	840	837	810	837	837	840	868	840	868	10104

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	WHOLE DEGREES FAHRENHEIT												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									90	72	53	48	
60	40	38	54	79	80	85	91	89	93	80	62	54	93
61	51	52	64	63	86	93	89	90	90	80	66	61	93
62	38	37	60	74	94	90	92	93	84	80	59	61	94
63	37	35	68	81	84	94	96	86	83	86	61	43	96
64	44	51	58	84	91	97	94	87	82	80	75	42	97
65	50	46	43	72	87	89	88	95	86	82	71	62	95
66	44	52	67	69	80	94	98	91	90	77	55	51	98
67	49	39	68	66	80	88	87	87	82	85	49	58	88
68	48	44	64	81	78	93	95	92	85	84	73	44	95
69	42	38	50	72	93	86	91	91	85	70	54	40	93
70	44	49	49	79	90	91	92	91	84	80	61	59	92
71	41	46	55	69	83	98	85	86	87	88	64	56	98
72	45	43	48	69	88	87	91	86	77	69	54	43	91
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	60	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	69	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
82	36	41	49	78	90	82	94	89	87	77	59	65	94
83	41	53	60	78	73	98	102	93	94	81	62	38	102
84	37	65	51	82	76	90	90	90	79	69	61	57	90
85	33	47	55	89	83	62	90	89	87	72	64	38	90
86	50	35	69	83	90	87	93	83	83	72	66	42	93
87	45	43	65	86									
MEAN	42.4	45.3	58.9	76.8	85.0	90.4	93.0	89.6	85.1	77.0	62.2	45.4	94.3
S.D.	6.117	7.750	4.013	7.115	6.045	4.191	3.823	2.990	4.828	5.891	7.050	8.500	3.101
TOTAL OBS	868	791	868	840	837	810	837	837	840	868	840	868	10104

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726350 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	WHOLE DEGREES FAHRENHEIT												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									29	22	-2	1	
60	-14	-8	-17	16	26	33	39	35	27	23	18	-9	-17
61	-18	-18	-8	17	23	31	39	33	26	25	17	-5	-18
62	-20	-24	-27	11	22	30	39	34	31	24	11	-10	-27
63	-28	-25	-16	14	23	35	39	35	26	21	17	-11	-28
64	-12	-7	0	1	29	28	40	40	26	21	5	-1	-12
65	-19	-13	-7	0	25	30	34	31	26	16	16	-1	-19
66	-15	-9	-2	20	20	26	41	39	29	16	7	-6	-15
67	-18	-18	-17	14	22	39	38	36	30	25	6	-9	-18
68	-21	-14	-2	19	24	36	37	36	40	21	17	-11	-21
69	-9	-7	-1	19	25	32	36	42	30	18	4	-6	-9
70	-14	-23	-8	13	25	36	44	41	29	25	19	-7	-23
71	-16	-18	-3	12	27	36	40	37	31	30	2	-3	-18
72	-11	-11	-16	7	23	31	37	41	30	19	11	-8	-16
73	-9	-17	11	13	25	43	44	43	29	27	19	-12	-17
74	-13	-19	-2	14	23	36	41	40	29	21	10	0	-19
75	-15	-19	-3	13	28	40	42	44	31	22	7	-4	-19
76	-14	-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	-18	-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
82	-21	-12	-17	5	32	29	42	30	33	23	12	-2	-21
83	-7	-6	-2	20	25	30	40	42	33	20	7	-13	-13
84	-21	-8	-8	21	23	39	38	37	28	22	14	1	-21
85	-13	-25	-5	15	30	37	42	41	33	25	13	-18	-25
86	-12	-7	-11	18	26	34	37	37	30	21	9	3	-12
87	-3	-21	5	14									
MEAN	-15.3	-15.4	-5.7	14.4	25.6	34.2	39.9	38.3	30.2	22.1	10.0	-6.0	-19.4
S.D.	5.713	7.453	9.117	5.540	2.911	4.048	2.854	4.168	3.334	3.155	5.922	6.733	5.652
TOTAL OBS	868	791	868	840	837	810	837	837	840	868	840	868	10104

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DRY-BULB TEMPERATURES DEG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02	MEAN	16.8	18.1	26.3	36.8	46.0	52.2	59.8	58.0	52.7	42.3	33.6	24.4	39.0
	SD	11.915	12.713	11.121	8.743	9.045	8.669	8.134	7.371	9.229	9.147	9.606	10.503	17.550
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
03-05	MEAN	16.2	16.9	24.8	35.3	44.3	50.4	57.7	56.5	51.5	41.4	32.8	24.0	37.7
	SD	12.419	13.275	11.905	9.183	9.068	9.106	8.417	7.800	9.466	9.290	9.429	10.611	17.465
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	15.9	16.1	24.3	36.8	46.1	55.4	61.8	58.8	52.5	41.2	32.3	23.6	39.0
	SD	12.558	13.725	12.329	9.366	9.148	8.512	7.645	7.558	9.121	8.998	9.436	10.961	18.783
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
09-11	MEAN	18.2	20.6	30.4	44.5	57.5	64.9	72.3	68.9	60.4	48.1	35.8	25.2	45.7
	SD	11.232	11.903	10.706	11.129	10.923	9.659	6.971	6.563	8.414	7.730	8.906	10.008	20.851
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
12-14	MEAN	22.5	25.9	34.7	48.4	61.5	69.4	77.2	73.5	65.1	52.5	39.6	28.3	50.0
	SD	9.230	10.651	10.537	12.302	11.946	9.713	7.401	7.171	9.368	8.512	9.798	8.871	21.057
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
15-17	MEAN	22.7	26.8	35.5	48.2	61.2	69.1	77.1	73.3	64.7	52.0	39.2	28.2	50.0
	SD	9.146	10.653	10.330	12.191	11.271	9.291	7.642	7.302	9.441	8.519	9.577	9.155	20.796
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
18-20	MEAN	19.4	23.0	31.7	44.0	56.6	64.7	72.4	68.1	59.2	46.4	35.4	25.8	45.7
	SD	10.112	11.089	9.719	10.673	10.420	8.609	7.418	6.877	9.041	8.087	8.725	9.885	20.041
	TOT OBS	930	846	930	898	930	900	930	930	900	930	900	930	10954
21-23	MEAN	17.5	19.9	28.3	39.0	49.2	55.9	63.7	61.0	54.3	43.5	33.9	24.9	41.0
	SD	11.026	12.302	10.176	8.920	8.938	8.043	7.264	6.928	8.859	8.711	9.072	10.464	18.028
	TOT OBS	930	846	930	897	930	900	930	930	900	930	900	930	10953
ALL	MEAN	18.7	20.9	29.5	41.6	53.0	60.3	67.8	64.8	57.5	45.9	35.3	25.5	43.5
	SD	11.307	12.651	11.602	11.512	12.037	11.390	10.607	9.722	10.486	9.643	9.670	10.216	19.923
HOURS	TOT OBS	7440	6768	7440	7195	7440	7260	7440	7440	7200	7440	7200	7440	87643

GLOBAL CLIMATOLOGY BRANCH
USAF/CLTAC
AIR WEATHER SERVICE/MAC

WET-BULB TEMPERATURES DEG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-01	MEAN	16.0	17.2	25.0	34.5	43.4	49.9	57.3	56.5	51.0	40.5	31.8	23.4	37.3
	SD	11.615	12.463	10.568	8.087	8.519	7.664	7.226	6.963	8.649	8.387	8.992	10.202	16.688
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
03-05	MEAN	15.4	16.2	23.7	33.5	42.1	46.7	55.9	55.2	50.1	39.9	31.2	23.0	36.4
	SD	12.152	13.039	11.349	8.417	8.549	8.134	7.587	7.467	8.938	8.611	8.952	10.355	16.918
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	15.2	15.6	23.3	34.6	44.8	52.2	58.8	57.1	51.0	39.8	30.9	22.6	37.3
	SD	12.257	13.487	11.902	8.526	8.312	7.400	6.752	7.150	8.692	8.469	9.028	10.720	17.901
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
09-11	MEAN	17.3	19.4	27.9	39.1	50.0	57.1	64.0	62.8	56.0	44.6	33.6	24.0	41.4
	SD	10.928	11.549	9.783	8.680	8.640	7.182	5.820	5.781	7.490	7.155	8.398	9.770	18.280
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
12-14	MEAN	20.7	23.4	30.7	41.0	51.8	58.9	65.4	64.3	57.8	46.7	35.8	26.3	43.7
	SD	8.914	9.968	9.216	8.859	8.654	7.119	5.865	6.099	7.658	7.274	8.504	8.656	17.507
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
15-17	MEAN	20.6	24.0	31.1	40.7	51.7	58.6	65.2	64.1	57.4	46.3	35.4	26.2	43.5
	SD	8.773	9.811	8.867	8.568	8.419	6.859	5.784	5.966	7.555	7.312	8.360	8.868	17.288
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
18-20	MEAN	18.1	21.3	28.8	38.4	49.3	56.5	63.5	62.1	54.9	43.1	33.2	24.5	41.2
	SD	9.787	10.651	8.921	8.313	8.316	6.655	5.930	6.002	7.678	7.558	8.312	9.619	17.518
	TOT OBS	930	846	930	898	930	900	930	930	900	930	900	930	10954
21-23	MEAN	16.6	18.8	26.6	35.9	45.5	52.4	60.0	58.6	52.1	41.4	32.1	23.7	38.7
	SD	10.711	11.981	9.634	7.939	8.234	7.103	6.487	6.479	8.291	8.017	8.647	10.154	17.068
	TOT OBS	930	846	930	897	930	900	930	930	900	930	900	930	10953
ALL	MEAN	17.5	19.5	27.1	37.2	47.3	54.3	61.3	60.1	53.8	42.8	33.0	24.2	39.9
	SD	10.906	12.056	10.461	8.869	9.176	8.189	7.340	7.358	8.658	8.293	8.820	9.895	17.637
HOURS	TOT OBS	7440	6768	7440	7195	7440	7200	7440	7440	7200	7440	7200	7440	87643

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DEW-POINT TEMPERATURES DEG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
LST														
00-02	MEAN	12.1	13.2	21.3	30.7	40.2	48.1	55.7	55.5	49.6	38.4	28.6	20.1	34.6
	SD	12.910	14.031	11.949	9.313	9.651	7.750	7.263	6.974	8.803	8.666	9.681	11.222	18.138
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
03-05	MEAN	11.6	12.6	20.4	30.4	39.5	47.3	54.7	54.4	49.0	38.0	28.3	19.9	33.9
	SD	13.458	14.524	12.547	9.306	9.388	8.017	7.464	7.441	8.957	8.896	9.657	11.434	18.144
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
06-08	MEAN	11.4	12.2	20.2	31.1	41.2	49.6	56.8	56.0	49.8	38.0	28.2	19.5	34.6
	SD	13.501	14.845	13.554	9.491	9.211	7.710	6.955	7.185	8.834	8.818	9.750	11.758	18.869
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
09-11	MEAN	13.0	15.1	22.5	31.8	42.6	51.0	59.6	58.9	52.6	40.8	29.8	20.4	36.5
	SD	12.397	13.283	11.456	10.178	10.338	8.509	7.366	7.011	8.460	8.224	9.425	11.166	18.794
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
12-14	MEAN	14.7	16.6	22.9	31.6	42.7	51.0	58.0	58.4	52.1	40.4	30.0	21.4	36.8
	SD	11.048	12.291	11.589	10.495	10.572	8.636	8.225	8.006	9.196	8.763	9.718	10.629	18.252
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
15-17	MEAN	14.0	16.6	22.7	30.9	42.5	50.4	57.6	58.1	51.7	40.0	29.6	21.1	36.4
	SD	10.990	12.365	11.480	10.476	10.835	8.672	8.256	7.965	9.112	8.937	9.785	10.828	18.260
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956
18-20	MEAN	13.0	15.8	22.4	30.8	41.8	49.8	57.8	58.0	51.6	39.4	29.2	20.6	35.9
	SD	11.517	12.821	11.384	10.252	10.618	8.626	7.958	7.538	8.666	8.637	9.626	11.030	18.386
	TOT OBS	930	846	930	898	930	900	930	930	900	930	900	930	10954
21-23	MEAN	12.2	14.5	22.2	31.1	41.4	49.3	57.3	56.9	50.3	38.8	28.7	20.2	35.4
	SD	12.081	13.722	11.360	9.363	9.786	7.749	7.126	6.799	8.607	8.503	9.580	11.295	18.291
	TOT OBS	930	846	930	897	930	900	930	930	900	930	900	930	10953
ALL	MEAN	12.8	14.6	21.8	31.0	41.5	49.6	57.0	57.0	50.8	39.2	29.1	20.4	35.5
	SD	12.317	13.605	11.903	9.877	10.120	8.309	7.679	7.523	8.913	8.739	9.671	11.185	18.419
HOURS	TOT OBS	7440	6768	7440	7195	7440	7200	7440	7440	7200	7440	7200	7440	87643

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 74-87
MONTH: JAN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NUM OBS
JAN	00-02	100.0	100.0	99.9	99.7	99.6	96.9	84.3	56.7	25.9	81.6	930
	03-05	100.0	100.0	100.0	99.9	99.1	97.1	84.3	60.3	28.5	92.3	930
	06-08	100.0	100.0	100.0	100.0	99.5	97.5	84.6	58.7	28.1	82.4	930
	09-11	100.0	100.0	100.0	99.8	99.2	95.2	77.7	51.3	22.5	80.3	930
	12-14	100.0	100.0	100.0	99.4	95.8	80.3	52.3	28.6	11.3	72.4	930
	15-17	100.0	100.0	100.0	99.1	93.8	73.4	46.0	22.3	9.0	70.0	930
	18-20	100.0	100.0	100.0	99.7	98.5	89.6	68.3	38.3	15.7	76.5	930
	21-23	100.0	100.0	100.0	99.8	99.5	96.7	79.8	44.7	20.8	79.6	930
TOTALS		100.0	100.0	100.0	99.7	98.1	90.8	72.2	45.1	20.2	78.1	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: FEB

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	99.6	99.1	93.7	81.0	54.7	29.8	81.5	846
	03-05	100.0	100.0	100.0	100.0	99.3	94.9	86.2	61.9	35.5	83.5	846
	06-08	100.0	100.0	100.0	100.0	99.4	96.8	87.4	67.1	38.1	84.7	846
	09-11	100.0	100.0	100.0	99.5	97.5	91.4	75.8	50.5	26.6	79.8	846
	12-14	100.0	100.0	99.6	97.4	86.3	68.4	45.4	25.7	13.1	69.4	846
	15-17	100.0	100.0	99.3	95.7	79.2	61.6	41.8	23.9	10.3	66.9	846
	18-20	100.0	100.0	99.9	98.8	93.0	80.1	60.3	39.8	19.9	74.8	846
	21-23	100.0	100.0	100.0	99.6	97.5	90.5	75.8	51.8	29.8	80.0	846
	TOTALS	100.0	100.0	99.9	98.8	93.9	84.7	69.2	46.9	25.4	77.6	6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: MAR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NUM OBS	
MAR	00-02	100.0	100.0	100.0	99.9	98.9	92.9	79.6	58.4	32.3	81.9	930	
	03-05	100.0	100.0	100.0	100.0	98.3	94.8	85.6	65.6	38.0	83.8	930	
	06-08	100.0	100.0	100.0	100.0	98.8	96.6	86.0	68.5	40.0	84.6	930	
	09-11	100.0	100.0	99.7	98.4	91.9	76.9	55.7	38.4	18.9	73.7	930	
	12-14	100.0	99.9	98.4	91.3	72.8	53.3	36.3	23.7	10.6	64.3	930	
	15-17	100.0	99.4	96.9	87.7	67.1	50.8	32.6	22.3	10.4	62.3	930	
	18-20	100.0	99.7	98.5	95.6	84.9	70.8	49.9	33.7	14.8	70.4	930	
	21-23	100.0	100.0	100.0	99.4	96.0	86.8	70.6	50.9	25.1	78.6	930	
	TOTALS	100.0	99.9	99.2	96.5	88.6	77.9	62.0	45.2	23.8	75.0	7440	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87
MONTH: APR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	99.8	95.1	87.7	71.0	53.1	31.9	79.7	900
	03-05	100.0	100.0	100.0	100.0	97.7	90.8	79.2	65.6	40.8	83.2	900
	06-08	100.0	100.0	100.0	99.4	96.2	88.4	75.7	57.8	34.3	80.9	900
	09-11	100.0	99.9	96.6	85.7	69.8	53.7	38.7	26.9	15.8	64.4	900
	12-14	100.0	98.9	86.6	71.7	55.8	39.8	29.4	19.2	10.4	56.8	900
	15-17	100.0	98.1	83.9	67.7	53.1	40.4	30.8	21.4	11.2	56.4	900
	18-20	100.0	99.3	93.7	83.6	68.3	53.7	38.3	27.4	14.9	63.6	896
	21-23	100.0	100.0	99.8	97.8	91.6	78.1	59.3	43.4	24.3	75.1	897
	TOTALS	100.0	99.5	95.1	88.2	78.5	66.6	52.8	39.4	23.0	70.0	7195

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: MAY

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%		NUM OBS
MAY	00-02	100.0	100.0	99.8	99.5	96.9	89.9	77.4	57.6	31.0	81.3	930
	03-05	100.0	100.0	100.0	99.7	97.3	94.0	84.7	66.2	39.6	84.2	930
	06-08	100.0	100.0	100.0	98.9	94.7	86.3	69.7	49.6	24.9	78.4	930
	09-11	100.0	100.0	96.6	83.2	63.9	47.2	31.2	18.2	9.1	60.7	930
	12-14	100.0	99.1	89.8	66.8	48.0	33.8	22.4	13.3	6.6	53.8	930
	15-17	100.0	99.7	88.9	67.4	49.5	35.9	21.6	13.9	7.2	54.1	930
	18-20	100.0	99.9	94.8	81.0	64.7	48.1	32.8	20.6	11.2	61.1	930
	21-23	100.0	100.0	99.8	98.2	92.2	81.7	64.4	42.0	22.7	76.0	930
	TOTALS	100.0	99.8	96.2	86.8	75.9	64.6	50.5	35.2	19.0	68.7	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM FOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	99.8	98.4	96.4	88.9	74.1	47.1	86.4	900
	03-05	100.0	100.0	100.0	100.0	99.8	97.6	92.8	84.1	57.7	89.5	900
	06-08	100.0	100.0	100.0	99.9	98.7	92.0	77.8	57.2	31.1	81.7	900
	09-11	100.0	100.0	99.8	94.9	72.8	47.7	28.9	17.0	8.2	62.7	900
	12-14	100.0	100.0	97.3	78.7	50.4	29.1	17.0	9.4	4.2	54.3	900
	15-17	100.0	100.0	95.9	75.6	50.0	28.8	16.7	9.6	3.7	53.7	900
	18-20	100.0	100.0	98.8	88.8	68.9	45.0	28.0	14.8	5.9	60.8	900
	21-23	100.0	100.0	100.0	99.6	97.4	88.7	75.3	51.1	22.6	79.5	900
	TOTALS	100.0	100.0	99.0	92.1	79.6	65.7	53.2	39.7	22.6	71.1	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: JUL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	99.5	97.0	91.7	75.5	44.9	87.0	930
	03-05	100.0	100.0	100.0	100.0	99.8	99.0	94.9	84.6	57.4	90.2	930
	06-08	100.0	100.0	100.0	100.0	99.4	96.2	84.6	63.2	34.8	84.2	930
	09-11	100.0	100.0	99.8	96.1	79.2	52.5	28.9	14.5	5.8	63.5	930
	12-14	100.0	100.0	96.9	77.6	51.9	29.5	16.2	8.4	2.5	53.7	930
	15-17	100.0	99.9	95.4	74.3	48.3	31.0	16.7	8.7	3.4	53.3	930
	18-20	100.0	100.0	98.7	90.2	69.2	49.7	31.3	17.2	5.2	61.8	930
	21-23	100.0	100.0	100.0	100.0	98.9	91.2	76.9	52.9	23.4	80.5	930
	TOTALS	100.0	100.0	98.9	92.3	80.8	68.3	55.2	40.6	22.2	71.8	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM POORLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: AUG

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	100.0	99.5	97.4	86.8	61.0	91.2	930
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.0	92.5	70.5	92.9	930
	06-08	100.0	100.0	100.0	100.0	100.0	99.9	98.0	86.3	55.9	90.5	930
	09-11	100.0	100.0	100.0	99.0	93.1	75.4	52.0	28.4	9.7	71.6	930
	12-14	100.0	100.0	99.8	97.0	71.1	46.5	26.0	13.7	4.3	61.0	930
	15-17	100.0	100.0	99.8	90.1	67.6	48.3	28.3	14.4	4.9	61.0	930
	18-20	100.0	100.0	100.0	98.1	89.1	73.5	53.2	33.2	10.9	71.5	930
	21-23	100.0	100.0	100.0	100.0	99.9	98.0	92.7	76.2	39.4	86.8	930
TOTALS		100.0	100.0	100.0	97.4	90.1	80.1	68.3	54.2	32.1	78.3	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: SEP

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NUM OBS
SEP	00-02	100.0	100.0	100.0	100.0	99.8	97.8	94.3	83.3	57.7	89.8	900
	03-05	100.0	100.0	100.0	100.0	100.0	99.6	95.6	86.3	65.2	91.4	900
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	95.7	85.9	57.3	90.6	900
	09-11	100.0	100.0	100.0	99.9	96.6	83.2	62.8	42.8	21.9	76.7	900
	12-14	100.0	100.0	99.7	94.4	76.3	52.1	35.8	22.4	10.7	65.1	900
	15-17	100.0	100.0	99.7	93.0	75.6	53.1	36.1	22.6	11.2	65.1	900
	18-20	100.0	100.0	99.9	99.2	95.4	84.3	67.0	46.0	21.7	77.3	900
	21-23	100.0	100.0	100.0	99.9	99.4	96.9	91.3	76.2	45.2	87.1	900
	TOTALS	100.0	100.0	99.9	98.3	92.9	83.4	72.3	58.2	36.4	80.4	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: OCT

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	99.8	99.1	96.6	89.5	75.6	48.2	86.9	930
	03-05	100.0	100.0	100.0	99.7	99.1	97.4	91.3	79.9	52.5	88.2	930
	06-08	100.0	100.0	100.0	100.0	99.5	98.3	92.5	80.4	51.7	88.5	930
	09-11	100.0	100.0	100.0	99.6	96.7	84.7	66.3	41.8	18.9	76.8	930
	12-14	100.0	100.0	99.5	95.3	80.1	56.8	34.8	18.4	10.1	65.3	930
	15-17	100.0	99.8	98.9	94.3	81.5	58.8	35.7	19.2	8.2	65.4	930
	18-20	100.0	100.0	99.9	99.5	96.6	88.7	68.3	44.0	19.8	77.6	930
	21-23	100.0	100.0	100.0	99.7	98.7	96.7	84.5	65.4	36.8	84.2	930
TOTALS		100.0	100.0	99.8	98.5	93.9	84.3	70.4	53.1	30.8	79.1	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: NOV

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	(RELATIVE HUMIDITY)	(NUM OBS)
NOV	00-02	100.0	100.0	100.0	99.9	98.9	94.6	82.2	60.8	33.9	82.9	900
	03-05	100.0	100.0	100.0	100.0	99.7	95.7	84.2	67.4	37.8	84.3	900
	06-08	100.0	100.0	100.0	100.0	100.0	97.8	86.1	71.0	40.8	85.3	900
	09-11	100.0	100.0	100.0	100.0	99.4	91.8	74.1	51.9	25.9	79.7	900
	12-14	100.0	100.0	99.8	98.0	89.6	68.6	43.4	29.0	15.9	70.2	900
	15-17	100.0	100.0	99.0	96.9	88.3	68.0	44.8	29.0	16.7	70.3	900
	18-20	100.0	100.0	99.8	99.4	97.9	90.6	73.0	49.3	24.1	79.3	900
	21-23	100.0	100.0	100.0	99.7	98.4	95.0	80.7	59.6	32.3	82.2	900
TOTALS		100.0	100.0	99.8	99.2	96.5	87.8	71.1	52.3	28.4	79.3	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86
MONTH: DEC

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	100.0	99.7	98.5	89.4	65.4	31.1	83.9	930
	03-05	100.0	100.0	100.0	100.0	99.6	98.2	91.6	68.5	32.3	84.4	930
	06-08	100.0	100.0	100.0	99.9	99.8	98.3	90.3	69.8	32.7	84.6	930
	09-11	100.0	100.0	100.0	100.0	99.2	96.0	84.8	59.2	25.4	82.1	930
	12-14	100.0	100.0	100.0	100.0	98.4	88.0	63.7	39.2	15.2	76.0	930
	15-17	100.0	100.0	100.0	100.0	98.1	86.6	60.9	37.1	16.0	75.4	930
	18-20	100.0	100.0	100.0	100.0	99.4	94.8	79.5	51.8	24.3	80.7	930
	21-23	100.0	100.0	100.0	100.0	99.7	98.3	87.0	59.1	27.5	82.7	930
TOTALS		100.0	100.0	100.0	100.0	99.2	94.9	80.9	56.3	25.6	81.2	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87
MONTH: ALL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.7	98.1	90.8	72.2	45.1	20.2	78.1	7441
FEB		100.0	100.0	99.9	98.6	93.9	84.7	69.2	46.9	25.4	77.6	6766
MAR		100.0	99.9	99.2	96.5	88.6	77.9	62.0	45.2	23.8	75.0	7440
APR		100.0	99.5	95.1	88.2	78.5	66.6	52.8	39.4	23.0	70.0	7195
MAY		100.0	99.8	96.2	86.8	75.9	64.6	50.5	35.2	19.0	68.7	7441
JUN		100.0	100.0	99.0	92.1	79.6	65.7	53.2	39.7	22.6	71.1	7200
JUL		100.0	100.0	98.9	92.3	80.8	68.3	55.2	40.6	22.2	71.8	7440
AUG		100.0	100.0	100.0	97.4	90.1	80.1	68.3	54.2	32.1	78.3	7441
SEP		100.0	100.0	99.9	98.3	92.9	83.4	72.3	58.2	36.4	80.4	7201
OCT		100.0	100.0	99.8	98.5	93.9	84.8	70.4	53.1	30.8	79.1	7440
NOV		100.0	100.0	99.8	99.2	96.5	87.8	71.1	52.3	28.4	79.3	7200
DEC		100.0	100.0	100.0	100.0	99.2	94.8	80.9	56.3	25.6	81.2	7441
TOTALS		100.0	99.9	99.0	95.7	89.0	79.1	64.8	47.2	25.8	75.9	87643

PPPPPPP	AAAAA	RRRRRRR	TTTTTTTT	FFFFFFFFF
PPPPPPP	AAAAAAAA	RRRRRRRR	TTTTTTTT	FFFFFFFFF
PP PP	AA AA	RR RR	TT	FF
PP PP	AA AA	RR RR	TT	FF
PPPPPPP	AA AA	RRRRRRRR	TT	FFFFFF
PPPPPPP	AAAAAAAAA	RRRRRRR	TT	FFFFFF
PP	AAAAAAAAA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF

PRESSURE SUMMARIES

STATION PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

SEA LEVEL PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

STATION PRESSURE IN INCHES HG FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
01	MEAN	29.221	29.304	29.241	29.199	29.214	29.197	29.232	29.267	29.280	29.280	29.266	29.229	29.244
	SD	.291	.263	.269	.250	.182	.171	.140	.138	.180	.243	.257	.283	.230
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
04	MEAN	29.223	29.302	29.231	29.188	29.207	29.192	29.227	29.260	29.275	29.276	29.266	29.233	29.240
	SD	.297	.267	.274	.260	.189	.179	.145	.144	.185	.250	.254	.279	.235
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
07	MEAN	29.225	29.310	29.245	29.206	29.229	29.213	29.246	29.277	29.292	29.286	29.273	29.235	29.253
	SD	.303	.270	.275	.268	.196	.185	.149	.148	.189	.256	.257	.279	.239
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
10	MEAN	29.246	29.330	29.260	29.215	29.231	29.218	29.250	29.285	29.300	29.299	29.285	29.252	29.264
	SD	.306	.270	.281	.268	.202	.184	.150	.149	.194	.262	.263	.281	.242
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	29.220	29.311	29.243	29.202	29.214	29.204	29.240	29.272	29.283	29.279	29.260	29.225	29.246
	SD	.306	.267	.277	.257	.201	.179	.143	.145	.190	.257	.265	.281	.239
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	29.212	29.268	29.217	29.185	29.195	29.189	29.219	29.253	29.260	29.265	29.247	29.216	29.229
	SD	.295	.263	.267	.242	.191	.169	.137	.140	.184	.247	.260	.279	.231
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
19	MEAN	29.234	29.303	29.231	29.193	29.196	29.187	29.214	29.252	29.267	29.284	29.264	29.235	29.238
	SD	.295	.256	.261	.232	.183	.163	.131	.134	.178	.238	.257	.283	.226
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
22	MEAN	29.234	29.306	29.243	29.212	29.215	29.207	29.233	29.270	29.282	29.290	29.265	29.235	29.249
	SD	.283	.260	.260	.234	.181	.163	.132	.132	.178	.238	.258	.286	.226
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
ALL HOURS	MEAN	29.227	29.307	29.234	29.200	29.213	29.201	29.233	29.267	29.280	29.282	29.266	29.233	29.245
	SD	.296	.265	.271	.252	.191	.174	.141	.142	.185	.249	.259	.281	.234
	TOT OBS	2480	2256	2480	2398	2480	2400	2480	2480	2400	2480	2400	2480	29214

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SEA LEVEL PRESSURE IN HRS FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
C1	MEAN	1016.2	1019.1	1016.6	1014.7	1014.9	1014.1	1015.2	1016.4	1017.1	1017.4	1017.2	1016.3	1016.2
	SD	10.321	9.393	9.550	8.760	6.409	6.826	4.942	4.874	6.371	8.565	9.095	9.981	8.171
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C4	MEAN	1016.3	1019.0	1016.2	1014.4	1014.7	1014.0	1015.0	1016.2	1016.9	1017.3	1017.2	1016.4	1016.1
	SD	10.557	9.544	9.719	9.141	6.654	6.296	5.101	5.084	6.558	8.837	8.986	9.860	8.335
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C7	MEAN	1016.4	1019.4	1016.8	1015.0	1015.5	1014.7	1015.7	1016.8	1017.6	1017.7	1017.6	1016.5	1016.6
	SD	10.749	9.648	9.787	9.417	6.907	6.491	5.244	5.247	6.709	9.059	9.082	9.874	8.465
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C10	MEAN	1017.1	1020.0	1017.3	1015.3	1015.5	1014.8	1015.9	1017.1	1017.8	1018.1	1018.0	1017.2	1017.0
	SD	10.901	9.646	9.961	9.406	7.091	6.438	5.270	5.265	6.844	9.232	9.284	9.932	8.575
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C13	MEAN	1016.2	1019.3	1016.6	1014.8	1014.9	1014.4	1015.4	1016.6	1017.2	1017.4	1017.0	1016.2	1016.3
	SD	10.846	9.535	9.796	9.018	7.059	6.263	5.037	5.129	6.767	9.010	9.329	9.916	8.440
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C16	MEAN	1015.9	1018.5	1015.7	1014.2	1014.2	1013.9	1014.7	1015.9	1016.4	1016.9	1016.6	1015.9	1015.7
	SD	10.434	9.346	9.461	8.530	6.722	5.937	4.818	4.933	6.535	8.700	9.183	9.859	8.173
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C19	MEAN	1016.8	1019.1	1016.3	1014.6	1014.3	1013.8	1014.5	1016.0	1016.7	1017.6	1017.3	1016.6	1016.1
	SD	10.109	9.238	9.267	8.152	6.445	5.761	4.615	4.708	6.349	8.411	9.097	10.030	8.039
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
C22	MEAN	1016.6	1019.2	1016.7	1015.2	1015.0	1014.5	1015.2	1016.6	1017.2	1017.8	1017.3	1016.5	1016.5
	SD	10.084	9.331	9.399	8.212	6.374	5.738	4.635	4.633	6.312	8.385	9.129	10.136	8.028
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
ALL	MEAN	1016.5	1019.2	1016.5	1014.6	1014.9	1014.3	1015.2	1016.4	1017.1	1017.5	1017.3	1016.4	1016.3
	SD	10.496	9.455	9.615	8.837	6.718	6.126	4.973	4.996	6.563	8.774	9.142	9.941	8.287
HOURLS	TOT OBS	2480	2256	2480	2398	2480	2400	2480	2480	2400	2480	2400	2480	29214

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