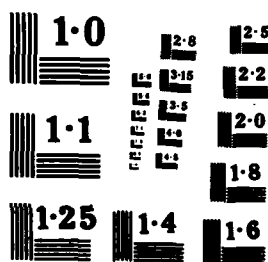


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GRAFENWOHR AAF GERMANY REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. OET 87
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REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

GRAFENWOHR AAF GERMANY MSC #106870
N 49 42 E 011 57 ELEV: 1360 FT EDIC
PARTS A - F HOURS SUMMARIZED: 0000 - 2300 LST

PERIOD OF RECORD:
HOURLY OBSERVATIONS: JUN 77 - MAY 87
SUMMARY OF DAY DATA: JUN 62 - MAY 87

19 OCT 1987

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REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-87/063 GRAFENWOHR AAF GERMANY (RUSSWO) Oct 1987, is approved for public release. There is no objection to unlimited distribution of this document to the public at large, or by the Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

This document has been reviewed and is approved for publication.

FOR THE COMMANDER



WALTER S. BURGMANN
Scientific and Technical Information Program Manager

REPORT DOCUMENTATION PAGE

- 1a. Report Security Classification: UNCLASSIFIED
3. Distribution/Availability of Report: Approved for public release; Distribution unlimited.
4. Performing Organization Report Number: USAFETAC/DS-87/063.
5. Monitoring Organization Report Number: USAFETAC/DS-87/063.
- 6a. Name of Performing Organization: USAFETAC/OL-A
- 6b. Office Symbol:
- 6c. Address: Federal Building, Asheville, NC 28801-2723.
11. Title: (RUSSWO) Grafenwohr AAF Germany.
12. Personal Author(s):
- 13a. Type of Report: Data Summary
- 13b. Time Covered: Jun 62-May 87.
14. Date of Report: Oct 87
15. Page Count: 312
16. Supplementary Notation:
17. COSATI 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); Grafenwohr AAF Germany; DL106870.
19. Abstract: A six-part statistical data summary of surface weather observations for: Grafenwohr AAF Germany. 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

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STATION NAME: GRAFENWOHR AAF GERMANY

STATION NUMBER: 106670

CALL ID: EDIC

PERIOD OF RECORD:

HOURS SUMMARIZED: 0000-2300 LST

HOURLY OBSERVATIONS: JUN 77 - MAY 87

SUMMARY OF DAY DATA: JUN 62 - MAY 87

TIME CONVERSION LST TO GMT: -1

DATE PRODUCED: 10 SLP 1987

OL-4/USAFETAC/MAC/AWS
ASHEVILLE NC 28801

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-FOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-FOUR 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 C: SURFACE WIND SUMMARIES

PART D: CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

PART E: TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

PART F: PRESSURE SUMMARIES

AWS#SC 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 (0 THROUGH 9). 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 SUMMARY		STATION NAME		LATITUDE		LONGITUDE		STATION ELEV (FT)		CALL SIGN		WMO NUMBER	
106870		GRAFENWOHR GERMANY AAF		N 49 42		E 011 57		1360		EDIC		10687	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE HSL		OBS PER DAY				
			FROM	TO			STATION (FT)	WIND MANOMETER					
1	Grafenwohr Germany	AAF	Jan 59	May 62	N 49 42	E 011 57	1370	N/A	12 to 16				
2	No change	AAF	Jun 62	Feb 65	No chge	No chge	No chge	N/A	24				
3	No change	AAF	Mar 65	Dec 70	No chge	No chge	No chge	1363	24				
4	Same	AAF	Jan 71	Aug 82	Same	Same	1360	Same	24				
5	Same	AAF	Sep 82	Dec 83	Same	Same	1360	Same	24				
6	Same	AAF	Jan 84	May 87	Same	Same	1360	Same	24				
NOTE: WEATHER MODIFICATION CONDUCTED (JAN 68) (REF AMSTR-74-247)													
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	Jan 59 to Feb 60	Located on top of helicopter shed, 100 ft W of active runway.	AN/CNQ-11	None	20 ft								
2	Mar 60 to Feb 61	Located on top of hangar roof, 100 ft W of active runway.	No chge	No chge	35 ft								
3	Mar 61 to Sep 67	Located on top of control tower.	No chge	RO-2	50 ft								
4	Oct 67 to Dec 70	Located 285 ft from centerline parallel with Runway 32.	No chge	No chge	13 ft								

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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 COMBINED.

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 (GLAZE): 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 APPEAR 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 (1100 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 1C/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 1C/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE PERCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	% OBS WITH PRECIP	FOG	SMOKE	BLOWING SNOW	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		6/0R DRIZZLE	RAIN 6/0R	6/0R SLEET			6/0R HAZE		6/0R SAND		
00-02		8.1	1.7	25.2	34.1	47.6	.3			47.9	862
03-05		8.4	1.5	24.0	33.4	49.0	.6			49.6	871
06-08		9.5	1.6	26.3	36.5	47.0	1.1			48.1	883
09-11		11.0	1.1	33.9	44.1	37.8	2.4			40.2	889
12-14		11.9	.6	30.2	41.3	26.7	8.3	.1		35.1	891
15-17		10.5	.3	29.4	38.9	28.7	10.8			39.5	891
18-20	.1	9.9	.4	24.4	33.0	43.5	2.1	.2		45.9	891
21-23		9.6	.8	22.7	31.8	48.6	.6	.2		49.4	885
TOTALS	.0	9.9	1.0	27.0	36.6	41.1	3.3	.1		44.5	7663

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	% OBS WITH PRECIP	FOG	SMOKE	BLOWING SNOW	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		6/0R DRIZZLE	RAIN 6/0R	6/0R SLEET			6/0R HAZE		6/0R SAND		
00-02		5.8	1.3	14.2	20.7	59.1	1.4			60.5	846
03-05		7.2	1.2	14.1	21.5	61.0	1.2			62.2	846
06-08		8.7	.9	17.7	27.0	58.2	2.2			60.4	846
09-11		8.9	.6	20.8	29.7	42.0	13.8			55.8	846
12-14		10.3	.2	16.1	.1	25.7	23.6	23.3		46.9	846
15-17		9.7		16.7	24.9	19.3	24.0			43.3	846
18-20	.1	9.3	.1	13.5	22.0	44.3	11.1	.4		55.8	846
21-23		7.6	1.1	15.7	23.9	53.4	4.1			57.6	846
TOTALS	.0	8.4	.7	16.1	.0	45.1	10.1	.1		55.3	6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR

HOURS (LST)	TSTMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R SLEET	SNOW 6/0R SLEET	MAIL WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	W/OBS TO VISION	TOTAL OBS
00-02		12.5	.1	6.6	19.0	53.1	1.8			54.9	930
03-05		12.7		10.0	21.6	52.3	1.6			53.9	930
06-08		13.0		10.5	23.0	54.3	2.9			57.2	930
09-11		15.3		11.9	25.6	30.5	17.0			47.5	930
12-14		15.1		7.2	21.1	13.7	22.8			36.5	930
15-17		14.6		6.1	19.6	10.4	19.0			29.5	930
18-20	.1	14.4		6.1	19.5	23.7	14.2			37.8	930
21-23		12.6		5.3	17.0	45.4	5.3			50.6	930
TOTALS	.0	13.5	.0	8.0	20.8	35.4	10.6			46.0	7440

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: APR

HOURS (LST)	TSTMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R SLEET	SNOW 6/0R SLEET	MAIL WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	W/OBS TO VISION	TOTAL OBS
00-02		11.7		3.4	14.8	49.1	2.5			51.6	884
03-05		12.5		5.5	17.6	61.1	1.7			62.8	885
06-08		13.9		7.4	20.7	51.9	8.5			60.3	887
09-11		13.5		7.4	19.8	16.0	25.5			41.5	891
12-14	.2	14.6		4.9	18.3	3.7	18.4			22.1	891
15-17	.2	13.4		3.4	16.1	2.7	11.1			13.9	888
18-20	.1	14.3	.1	3.4	16.5	10.1	13.1			23.2	883
21-23	.3	11.2		3.9	14.3	32.8	8.2			40.9	882
TOTALS	.1	13.2	.0	4.5	17.3	28.4	11.1			39.5	7091

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY

HOURS (LST)	TSTMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R DRIZZLE	SNOW 6/0R SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	% OBS W/ CBST TO VISION	TOTAL OBS
00-02	.7	17.5		.1		17.5	42.8	1.5			44.3	918
03-05		15.5		.3		15.7	62.0	1.2			63.2	918
06-08	.1	16.1		.4	.1	16.5	47.5	9.5			57.0	924
09-11	.1	17.1		.2		17.2	9.5	16.5			25.9	930
12-14	1.5	18.6		.8	.2	19.1	3.1	7.0			10.1	930
15-17	3.0	17.4		.1	.3	17.8	2.6	4.6			7.2	927
18-20	3.0	16.6				16.6	6.4	4.8			11.2	921
21-23	1.1	18.5				18.5	22.9	3.5			26.4	922
TOTALS	1.2	17.2		.2	.1	17.4	24.6	6.1			30.7	7396

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN

HOURS (LST)	TSTMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R DRIZZLE	SNOW 6/0R SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	% OBS W/ CBST TO VISION	TOTAL OBS
00-02	1.1	11.0				11.0	41.0	1.7			42.6	896
03-05	1.0	13.3				13.3	58.7	.7			59.4	899
06-08	.4	14.8				14.8	42.0	10.8			52.8	900
09-11		12.0				12.0	6.3	18.1			24.4	900
12-14	1.6	10.9				10.9	2.6	8.8			11.3	900
15-17	2.9	9.9				9.9	2.6	5.4			8.0	900
18-20	1.8	10.1				10.1	4.1	6.6			10.7	900
21-23	1.4	9.6				9.8	24.6	5.7			30.5	898
TOTALS	1.3	11.5				11.5	22.6	7.2			30.0	7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	FAIL	% OBS WITH PRECIP	FOG	SMOKE	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		OR DRIZZLE	RAIN OR DRIZZLE	OR SLEET				OR HAZE	OR SNOW	OR SAND	
00-02	.6	10.0				10.0	51.6	1.5		63.1	924
03-05	.2	11.7				11.7	69.2	.5		69.7	924
06-08		12.9				12.9	53.5	11.0		64.5	924
09-11	.2	14.7				14.7	9.1	20.6		29.7	924
12-14	.8	14.1				14.1	3.0	9.0		12.0	924
15-17	2.2	11.6				11.6	3.6	6.0		9.5	924
18-20	2.6	10.6				10.6	5.3	7.3		12.6	922
21-23	2.1	11.1				11.1	31.3	6.4		37.7	922
TOTALS	1.1	12.1				12.1	28.3	7.8		36.1	7386

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	FAIL	% OBS WITH PRECIP	FOG	SMOKE	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		OR DRIZZLE	RAIN OR DRIZZLE	OR SLEET				OR HAZE	OR SNOW	OR SAND	
00-02	1.0	9.1				9.1	62.6	1.0		63.5	930
03-05	.8	9.4				9.4	74.7	.4		75.2	930
06-08	.5	10.6				10.6	67.8	6.8		74.6	930
09-11	.2	9.8				9.8	16.1	11.5		27.6	930
12-14	1.1	11.6				11.6	2.0	18.6		20.6	930
15-17	2.3	11.1				11.1	2.2	11.3		13.4	930
18-20	2.6	11.8				11.8	10.8	11.7		22.5	930
21-23	1.6	10.6				10.8	40.8	3.9		44.6	930
TOTALS	1.3	10.5				10.5	34.6	10.7		45.3	7446

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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/ CBST TO VISION	TOTAL OBS
00-02	.4	14.0				14.0	59.7				59.7	894
03-05		11.5				11.5	67.8				67.8	894
06-08		14.3				14.3	71.2	1.5			72.6	895
09-11	.1	13.4				13.4	28.9	24.3			53.1	894
12-14	.2	10.2			.1	10.3	7.3	21.1			28.4	894
15-17	.4	11.7				11.7	4.9	12.6			17.6	894
18-20	1.6	12.1				12.1	20.6	9.7			30.2	890
21-23	.1	12.6				12.6	45.7	1.8			47.5	889
TOTALS	.4	12.5			.0	12.5	38.3	8.9			47.1	7144

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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/ CBST TO VISION	TOTAL OBS
00-02		12.5		.3		12.7	64.8	.3			65.1	929
03-05		13.2		.1		13.2	68.6				68.6	930
06-08		13.5		.3		13.5	69.9	.8			70.6	930
09-11		14.5				14.5	46.3	13.4			59.8	930
12-14		13.7			.1	13.8	17.0	22.2			39.1	930
15-17		14.5				14.5	12.4	20.5			32.9	930
18-20	.1	13.5		.1		13.5	44.5	6.0			50.5	930
21-23		12.6		.3		12.9	58.9	1.0			59.9	930
TOTALS	.0	13.5		.1	.0	13.6	47.8	8.0			55.8	7439

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: NOV

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	FAIL	% OBS WITH PRECIP	FOG	SMOKE	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		E/OR DRIZZLE	RAIN E/DR	E/OR SLEET				E/OR BLOWING HAZE SNOW			
00-02		16.5	.1	8.0		23.4	58.0	.5		58.5	886
03-05		15.9	.3	7.3		22.8	59.8	.3		60.1	885
06-08	.1	13.5	.5	9.5		22.5	59.6	.1		59.7	888
09-11		12.2	.3	12.7		24.9	52.4	2.9		55.3	888
12-14		14.2		11.7		24.9	34.4	11.7		46.1	887
15-17		14.2	.1	9.0		22.5	35.8	9.9		45.7	886
18-20		13.1	.2	8.3	.1	21.2	51.9	2.5		54.4	888
21-23		14.5	.1	8.8		22.8	54.1	.6		54.7	887
TOTALS	.0	14.3	.2	9.4	.0	23.1	50.8	3.6		54.3	7097

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC

HOURS (LST)	TSTMS	RAIN	FRZING	SNOW	FAIL	% OBS WITH PRECIP	FOG	SMOKE	DUST	% OBS W/OBST TO VISION	TOTAL OBS
		E/OR DRIZZLE	RAIN E/DR	E/OR SLEET				E/OR BLOWING HAZE SNOW			
00-02		17.1	1.0	15.5		32.5	47.1	.9		48.0	767
03-05	.1	16.3	2.0	15.3		32.9	45.5	.5		46.0	805
06-08		14.5	2.3	14.4		30.4	48.8	.6		49.4	856
09-11		16.4	1.5	18.7		35.5	43.8	3.1		47.0	866
12-14		16.7	.8	15.6	.1	32.7	34.8	8.0		42.8	851
15-17		16.7	.5	13.3		30.2	39.6	5.1		44.7	844
18-20		17.2	.2	13.8		30.1	49.3	1.6		50.8	826
21-23		16.1	.6	13.8		30.2	51.5	1.0		52.6	778
TOTALS	.0	16.4	1.2	15.1	.0	31.4	45.1	2.6		47.7	6587

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87
MONTH: ALL

HOURS ILST	TSTMS	RAIN	FRZING	SNOW	MAIL	% OBS WITH PRECIP	FOG	SMOKE	BLOWING SNOW	DUST	% OBS W/ OBST TO VISION	TOTAL OBS
		OR DRIZZLE	RAIN OR DRIZZLE	OR SLEET				OR HAZE		OR SAND		
JAN ALL	.0	9.9	1.0	27.0		36.6	41.1	3.3	.1		44.5	7063
FEB	.0	8.4	.7	16.1	.0	24.4	45.1	10.1	.1		55.3	6766
MAR	.0	13.0	.0	8.0		20.8	35.4	10.6			46.0	7440
APR	.1	13.2	.0	4.9	.0	17.3	28.4	11.1			39.5	7091
MAY	1.2	17.2		.2	.1	17.4	24.6	6.1			30.7	7390
JUN	1.3	11.5				11.5	22.8	7.2			30.0	7193
JUL	1.1	12.1				12.1	28.3	7.8			36.1	7388
AUG	1.3	10.5				10.5	34.6	10.7			45.3	7440
SEP	.4	12.5			.0	12.5	38.3	8.9			47.1	7144
OCT	.0	13.5		.1	.0	13.6	47.8	8.0			55.8	7439
NOV	.0	14.3	.2	9.4	.0	23.1	50.8	3.6			54.3	7097
DEC	.0	16.4	1.2	15.1	.0	31.8	45.1	2.6			47.7	6587
TOTALS	.5	12.6	.3	6.7	.0	19.3	36.9	7.5	.0		44.4	86040

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

STATION NUMBER: 1C687C STATION NAME: GRAFENVOHR AF GFR

PERIOD OF RECORD: 62-87
MONTH: ALL

MONTH	RAIN		FRZING		SNOW		% OBS WITH PRECIP	SMOKE		DUST W/CBST 10 VISION	% OBS TOTAL OBS
	TSYS	67OR DRIZZLE	RAIN 67OR DRIZZLE	67OR SLEET	67OR SLEET	67OR SLEET		67OR HAZE	BLOWING SNOW		
JAN	.3	36.7	6.7	56.7	.1	72.2	86.7	44.8	.7	93.8	762
FEB	.6	32.9	4.4	45.9	.1	61.5	84.6	60.6	1.3	94.7	703
MAR	1.4	46.5	.6	31.6	.1	61.5	81.7	64.3	.3	90.5	775
APR	4.3	53.5	.1	18.2	.8	59.7	80.9	61.7		88.1	747
MAY	13.4	59.0		2.5	1.3	59.2	78.7	57.0		84.6	775
JUN	20.0	59.3		.1	1.3	59.3	78.1	59.1		85.2	750
JUL	17.6	52.3		.1	.6	52.3	83.6	59.9		88.4	773
AUG	15.0	52.1			.4	52.1	85.5	67.4		91.2	775
SEP	5.9	48.7			.3	48.7	86.8	68.8		91.2	749
OCT	.6	46.5		2.6		46.6	90.2	65.9		95.0	775
NOV	.5	51.8	2.1	29.9		65.7	87.8	50.2	.1	93.3	747
DEC	.3	43.7	5.1	44.5		69.3	85.4	43.1	.4	93.5	749
TOTALS	6.7	48.6	1.6	19.3	.4	59.0	84.2	58.6	.2	90.8	9080

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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 VALUES).

ALSO PROVIDED ARE THE OBSERVATION COUNTS.

A VALUE OF ".C" 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: 1C687C STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

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 ARYS	TOTAL OBS	MONTHLY AMOUNTS		
																MEAN	GREATEST	LEAST
JAN	27.2	20.5	6.4	15.5	9.6	13.1	6.4	1.1	.1					52.3	761	1.62	4.02	.90
FEB	37.7	19.4	5.2	12.2	7.9	12.1	4.3	1.0	.1					42.8	705	1.57	5.73	.7
MAR	37.9	19.0	6.6	12.4	7.2	11.1	4.6	1.0	.1					43.1	775	1.63	3.22	.34
APR	39.5	19.7	5.0	11.2	7.8	9.8	6.4	.9	.1					41.2	747	1.75	3.52	.18
MAY	40.1	13.3	3.4	13.4	7.1	13.8	5.9	2.5	.5					46.6	775	2.41	5.09	.66
JUN	39.7	11.8	5.4	11.4	9.0	10.4	8.1	3.1	1.1					48.5	720	2.80	5.65	.86
JUL	47.5	13.2	4.5	8.5	4.5	11.1	6.7	2.8	.9	.1				39.3	774	2.81	6.81	.05
AUG	48.0	12.0	4.6	10.6	5.5	8.4	6.3	3.5	1.0					40.0	775	2.56	6.06	.84
SEP	51.1	8.5	5.7	10.4	6.4	9.5	5.9	2.1	.4					40.4	750	2.01	4.42	.34
OCT	52.8	11.4	3.7	9.9	6.6	8.3	4.8	1.9	.5					35.8	774	1.84	5.94	.11
NOV	33.7	17.0	6.0	15.5	8.3	11.5	6.7	1.1	.1					49.3	747	1.87	3.91	.20
DEC	29.9	21.5	5.3	11.3	10.8	13.4	5.6	2.0	.1					48.6	749	2.09	6.66	.17
ANN	40.4	15.6	5.1	11.9	7.6	11.0	6.0	1.9	.4	.0				44.0	9052	24.96		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

EXTREME VALUES OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-P7

24 HOUR AMOUNTS IN INCHES													
-M-O-N-T-H-S-													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.32	.30	.29	.15	.20	.69	
63	.62	.19	.42	.46	.66	1.35	1.77	.40	.75	.54	.59	.06	1.77
64	.47	.12	.35	.24	.28	.93	.14	.35	.45	.43	.59	.19	.93
65	.67	.42	.92	.78	.62	1.26	.81	.56	1.09	.71	.93	1.01	1.26
66	.43	.65	.66	.72	.42	1.48	.98	.71	.46	.90	.16	.66	1.48
67	.37	.64	.92	.26	.84	.92	*.21	.64	.92	*.50	.50	.75	.92
68	.42	.24	.29	.66	.54	.43	.44	.86	.68	.32	.35	.31	.86
69	.75	.40	.49	.60	.22	.75	1.94	.53	.57	.14	.56	.28	1.94
70	.58	1.12	.55	.52	.58	.36	.84	.25	.44	.63	.48	.64	1.12
71	.38	.18	.20	.34	1.07	.96	.34	.57	.30	1.22	.43	.25	1.22
72	.22	.16	.29	1.13	.44	1.06	1.37	1.66	.13	.61	.47	.21	1.66
73	.43	.29	.10	.37	.38	.52	.57	.38	.16	.43	.41	.52	.57
74	.46	.46	.19	.26	.42	.48	.35	.55	.74	.63	.43	*.65	.74
75	*.27	.47	.28	.25	.50	1.03	.91	.63	.57	.20	.52	*.20	1.03
76	*.99	.12	.38	.04	.19	.48	.59	.83	.76	.54	.36	*.38	*.99
77	*.45	.44	1.02	.41	.19	.94	.45	1.09	.50	.50	*.43	*.25	1.09
78	*.65	.31	.58	.42	1.56	.42	.65	1.94	.63	.65	*.04	*.43	1.94
79	*1.31	.25	.76	*.44	.24	.67	.39	.40	1.19	.46	*.49	*.46	*1.31
80	*.59	.37	.27	.36	.62	.41	.94	.36	.85	1.10	.23	*.33	1.10
81	*.44	.16	.43	*.44	1.19	.36	2.51	.96	.91	1.00	.41	*.67	2.51
82	*.36	*.32	.40	.42	.28	.45	1.94	.84	1.83	1.26	.37	*.62	1.94
83	*.36	.24	.28	.38	.64	.51	.19	.63	.54	.20	.57	*.43	.64
84	*.47	.85	.11	.73	1.52	1.28	.43	1.19	.64	.21	.53	*.21	1.52
85	.427	.28	.16	.35	.69	.42	.47	1.02	.50	.04	1.11	*.93	1.11
86	*.44	.41	.52	.33	.90	.44	.68	.63	.38	1.40	.22	*.52	1.40
87	*.76	.28	.90	.55	1.00								
PEAK	.483	.377	.459	.462	.640	.746	.821	.755	.651	.576	.471	.464	1.281
S.D.	.147	.240	.270	.231	.386	.357	.642	.399	.360	.393	.220	.287	.424
TOTAL OBS	761	705	775	747	775	720	774	775	750	774	747	749	9052

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MONTHLY PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

TOTAL MONTHLY PRECIPITATION IN INCHES													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							1.82	.89	1.44	.23	.88	2.60	
63	1.55	.36	2.15	1.33	1.75	5.89	5.51	2.29	1.97	1.16	3.25	.17	27.38
64	.96	.57	1.14	1.14	1.31	2.30	.36	1.91	2.09	2.06	2.44	.75	17.03
65	2.75	2.10	3.22	2.82	3.34	4.98	3.17	1.82	4.22	.24	3.64	6.66	38.66
66	1.66	2.11	2.65	3.00	2.04	4.71	4.31	4.32	1.59	2.95	.76	3.67	33.77
67	1.94	2.60	2.67	1.10	3.26	2.92	*.37	1.83	3.95	*1.71	1.23	3.03	*26.61
68	2.07	1.30	1.45	1.59	1.65	2.34	2.20	4.55	3.69	1.83	1.27	1.48	25.42
69	1.84	1.70	1.32	3.10	1.02	2.99	3.54	2.44	.98	.29	2.76	.87	22.85
70	1.63	5.73	2.60	3.52	3.09	1.16	2.75	2.68	1.06	2.25	1.49	1.50	29.46
71	1.13	.91	1.20	1.13	3.41	4.14	.05	1.75	1.24	1.26	1.76	1.10	19.18
72	.90	.33	.59	2.56	2.24	2.77	3.45	2.28	.44	1.04	2.39	.43	19.42
73	1.30	1.91	.40	1.80	1.28	1.74	2.75	1.00	.34	2.21	2.34	2.78	19.85
74	1.68	1.99	.71	1.01	1.90	2.61	3.10	1.12	2.63	4.00	1.85	*4.29	*26.79
75	*1.77	1.21	1.73	1.12	1.21	4.03	2.51	2.93	1.47	1.41	2.00	*.43	*21.82
76	*3.96	.27	.84	.18	1.08	.88	1.97	1.37	1.98	1.71	1.61	*1.81	*17.66
77	*2.04	2.66	2.33	2.61	.66	2.80	1.41	3.67	1.58	1.77	*3.91	*1.28	*26.72
78	*1.98	1.12	2.20	.77	4.81	2.27	3.28	6.06	2.82	1.51	*.20	*2.49	*29.51
79	*3.44	1.26	3.15	*1.46	1.32	2.88	1.60	1.46	3.13	.64	*2.92	*3.11	*26.35
80	*2.21	1.73	1.47	2.01	1.58	3.05	5.49	1.07	1.35	3.19	.78	*1.11	*25.04
81	*1.99	.68	2.22	*1.16	3.44	1.11	6.81	1.85	1.79	5.94	2.07	*2.98	*32.04
82	*1.62	*.88	1.07	.97	1.59	2.17	4.14	3.42	2.33	3.25	1.24	*3.38	*25.66
83	*2.35	1.44	1.20	2.73	2.70	1.21	.25	2.22	1.66	.83	1.24	*.79	*18.62
84	*2.44	2.74	.34	1.58	4.73	4.24	2.15	4.53	3.27	.61	1.22	*.81	*28.66
85	*1.54	.72	.44	1.27	2.34	2.52	2.75	3.37	1.87	.11	3.80	*1.90	*22.63
86	*4.02	.78	1.79	1.06	5.08	1.59	2.17	3.14	1.40	3.77	1.02	*2.75	*28.57
87	*1.72	1.47	1.92	1.82	3.38								
MEAN	1.618	1.570	1.632	1.749	2.408	2.799	2.814	2.559	2.012	1.844	1.865	2.187	25.322
S.O.	.517	1.154	.858	.884	1.260	1.304	1.648	1.313	1.026	1.428	.893	1.820	7.128
TOTAL OBS	761	705	775	747	775	720	774	775	750	774	747	749	9052

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: 1C6870 STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

AMOUNTS IN INCHES																			
MONTH	NONE	TRACE	0.1	0.5	1.5	2.5	3.5	4.5	6.5	10.5	15.5	25.5	OVER	% DAYS	TOTAL	MONTHLY AMOUNTS			
			TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	WITH	OBS	MEAN	GREATEST	LEAST		
			0.4	1.4	2.4	3.4	4.4	6.4	10.4	15.4	25.4	50.4	MEAS						
			AMTS																
JAN	42.4	22.3	13.9	11.7	4.7	2.6	1.6	.4	.3					35.2	761	5.1	26.8	2.5	
FEB	53.2	19.3	11.5	9.8	3.8	1.3	.7	.4						27.5	705	6.0	23.3	TRACE	
MAR	67.2	17.2	6.7	5.7	1.9	.4	.3	.4	.3					15.6	775	4.8	17.4	TRACE	
APR	81.4	11.5	2.3	3.5	.8	.4	.1							7.1	746	2.1	8.7	TRACE	
MAY	97.7	2.2		.1										.1	775	TRACE	.9	.0	
JUN	100.0														720	.0	.0	.0	
JUL	100.0														775	.0	.0	.0	
AUG	100.0														775	.0	.0	.0	
SEP	100.0														750	.0	.0	.0	
OCT	97.2	1.5	.8	.5										1.3	775	.2	1.8	.0	
NOV	70.0	15.5	5.8	6.3	1.5	.8			.1					14.5	747	3.8	13.0	.0	
DEC	53.9	20.3	9.6	8.7	4.7	1.3	.4	.7	.4					25.8	749	6.0	32.0	.0	
ANN	80.2	9.1	4.2	3.9	1.4	.6	.3	.2	.1					10.6	9053	34.0			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

EXTREME VALUES OF SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: IC6870 STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

24 HOUR AMOUNTS IN INCHES													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.0	.0	.0	.3	.9	1.0	
63	5.6	2.3	1.8	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.9	5.6
64	7.4	2.5	1.0	1.3	.0	.0	.0	.0	.0	.0	1.8	1.9	7.4
65	2.6	4.3	5.5	TRACE	.0	.0	.0	.0	.0	.0	1.8	2.0	5.5
66	1.5	TRACE	3.2	*TRACE	.0	.0	.0	.0	.0	.0	1.0	1.6	3.2
67	4.8	1.3	1.8	1.2	.0	.0	.0	.0	.0	TRACE	.7	2.1	4.8
68	2.7	2.0	1.7	1.2	.0	.0	.0	.0	.0	.0	1.0	2.2	2.7
69	1.8	4.0	.4	1.5	.0	.0	.0	.0	.0	.0	7.3	2.8	7.3
70	5.8	3.3	5.5	.0	.9	.0	.0	.0	.0	.5	TRACE	6.0	6.0
71	1.1	1.8	2.0	TRACE	.0	.0	.0	.0	.0	.0	1.9	1.5	2.0
72	2.2	.9	1.7	TRACE	.0	.0	.0	.0	.0	.8	1.4	.0	2.2
73	4.2	2.1	.9	.9	.0	.0	.0	.0	.0	TRACE	3.0	5.0	5.0
74	1.0	4.2	1.0	1.7	.0	.0	.0	.0	.0	1.2	.8	*3.2	4.2
75	*1.7	4.7	1.3	.5	.0	.0	.0	.0	.0	.1	2.0	*4.4	4.7
76	*1.0	.7	TRACE	.3	.0	.0	.0	.0	.0	.0	2.1	*1.7	2.1
77	*2.6	TRACE	TRACE	2.4	.0	.0	.0	.0	.0	.0	*2.1	*1.2	*2.6
78	*3.5	3.2	4.4	TRACE	.0	.0	.0	.0	.0	.0	*4.3	*3.9	4.4
79	*4.4	2.0	2.0	*TRACE	TRACE	.0	.0	.0	.0	.0	*3.0	*2.5	*4.4
80	*2.4	.5	.8	2.5	TRACE	.0	.0	.0	.0	TRACE	1.1	*7.0	*7.0
81	*4.3	2.0	7.7	*2.0	TRACE	.0	.0	.0	.0	.3	3.3	*7.0	7.7
82	*1.1	*1.2	.9	.7	TRACE	.0	.0	.0	.0	.0	1.3	*2.8	*3.8
83	*1.5	5.9	.5	TRACE	.0	.0	.0	.0	.0	.0	.5	*2.6	5.9
84	*1.6	3.5	1.1	3.2	TRACE	.0	.0	.0	.0	.0	.2	*.5	*3.6
85	*2.4	5.2	1.0	3.1	TRACE	.0	.0	.0	.0	.0	3.4	*7.0	*7.0
86	*1.8	4.4	.1	.1	.0	.0	.0	.0	.0	TRACE	.0	*4.6	*4.6
87	*7.5	2.0	6.6	TRACE	.0								
MEAN	3.39	2.62	2.12	1.12	.04	.00	.00	.00	.00	.13	1.61	2.58	4.85
S.D.	2.110	1.654	2.139	1.229	.180	.000	.000	.000	.000	.296	1.619	1.815	1.961
TOTAL OBS	761	705	775	746	775	720	775	775	750	775	747	749	9053

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 1C6810 STATION NAME: GRAFENWOHR AF BFR

PERIOD OF RECORD: 62-87

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.0	.0	.0	.3	3.4	15.6	
63	15.4	5.0	2.5	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.1	26.0
64	12.5	4.5	1.8	1.3	.0	.0	.0	.0	.0	.0	3.3	6.4	29.8
65	12.4	23.3	15.5	TRACE	.0	.0	.0	.0	.0	.0	6.1	6.8	64.1
66	4.1	TRACE	13.9	*TRACE	.0	.0	.0	.0	.0	.0	3.6	5.9	*27.5
67	10.7	2.8	4.9	2.5	.0	.0	.0	.0	.0	TRACE	1.1	5.8	31.8
68	13.7	4.9	4.7	1.2	.0	.0	.0	.0	.0	.0	1.1	11.0	36.6
69	4.1	14.2	.7	2.5	.0	.0	.0	.0	.0	.0	9.6	6.5	39.6
70	12.2	18.9	17.4	8.7	.9	.0	.0	.0	.0	.5	TRACE	7.2	65.8
71	2.5	8.0	8.2	TRACE	.0	.0	.0	.0	.0	.0	4.1	3.1	25.9
72	8.3	1.3	1.8	TRACE	.0	.0	.0	.0	.0	1.0	6.8	.0	19.2
73	10.5	11.4	2.2	3.4	.0	.0	.0	.0	.0	TRACE	6.8	16.5	52.8
74	2.9	10.4	1.1	1.7	.0	.0	.0	.0	.0	1.8	1.5	*10.7	*30.1
75	*13.5	6.3	5.8	1.4	.0	.0	.0	.0	.0	.1	6.4	*8.5	*24.0
76	*2.9	1.1	TRACE	.5	.0	.0	.0	.0	.0	.0	4.1	*9.0	*17.6
77	*14.0	TRACE	TRACE	5.0	.0	.0	.0	.0	.0	.0	*7.0	*6.0	*32.0
78	*16.1	10.2	7.7	TRACE	.0	.0	.0	.0	.0	.0	*3.3	*7.0	*41.3
79	*24.4	8.5	4.5	*TRACE	TRACE	.0	.0	.0	.0	.0	*4.2	*6.1	*49.7
80	*13.4	2.3	1.2	8.4	TRACE	.0	.0	.0	.0	TRACE	2.5	*15.2	*43.0
81	*24.1	6.2	11.2	6.0	TRACE	.0	.3	.0	.0	.5	7.8	*32.0	*83.8
82	*5.9	*1.2	.9	1.1	TRACE	.3	.0	.0	.0	.0	1.3	*4.0	*23.4
83	*10.5	15.5	1.0	TRACE	.0	.0	.0	.0	.0	.0	.9	*3.3	*31.2
84	*28.8	13.6	1.5	6.3	TRACE	.0	.0	.0	.0	.0	.7	*1.2	*51.6
85	*9.6	9.9	1.6	3.1	TRACE	.0	.3	.0	.0	.0	13.0	*7.5	*44.7
86	*18.0	10.2	.1	.1	.0	.0	.0	.0	.0	TRACE	.0	*16.9	*45.3
87	*23.9	3.4	10.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0
PEAK	9.11	8.10	4.84	2.15	.04	.00	.00	.00	.00	.17	3.80	7.99	39.16
S.D.	4.573	6.072	5.185	2.697	.180	.000	.000	.000	.000	.415	3.501	5.236	16.376
TOTAL OBS	761	705	775	746	775	720	775	775	750	775	747	749	9053

NOTE * BASED ON LESS THAN FULL MONTHS

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

MCNTH	AMOUNTS IN INCHES													OVER	% DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS		
	NONE	TRACE	1	2	3	4	7	13	25	37	49	61	120				MEAN	GREATEST	LEAST
						10 6	10 12	10 24	10 36	10 48	10 60	10 120	120						
JAN	24.9	7.8	4.0	9.2	7.4	28.2	18.4	.1							67.3	730			
FEB	35.2	13.6	8.4	7.0	4.7	18.9	11.4	.7							51.2	676			
MAR	78.0	9.5	2.0	1.5	1.2	3.9	3.1	.4							12.1	744			
APR	97.1	2.0	.4		.4										.9	687			
MAY	100.0															713			
JUN	100.0															660			
JUL	100.0															713			
AUG	100.0															713			
SEP	100.0															690			
OCT	99.7	.1		.1											.1	713			
NOV	84.4	8.3	3.3	1.3	1.2	1.3	.1								7.3	687			
DEC	44.0	17.6	7.9	9.2	5.2	10.2	5.1	.9							18.4	687			
ANN	80.3	4.5	2.2	2.4	1.7	5.2	3.2	.2							14.8	8413			

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/HAC

EXTREME VALUES OF SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AF GFP

PERIOD OF RECORD: 62-A7

YEAR	DAILY SNOW DEPTH IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
62													
63	11	13	10	0	0	0	0	0	0	0	2	6	13
64	9	5	0	0	0	0	0	0	0	0	0	2	9
65	3	7									TRACE	5	
66			1										
67	10	1	0	C	0	C	0	0	0	0	0	5	10
68	8	3	4	C	0	0	0	C	0	0	0	1	8
69	6	*8	0	C	0	C	C	0	0	0	6	7	*8
70	12	9	13	0	0	0	0	0	0	0	0	6	13
71	5	1	8	C	C	0	0	C	0	0	2	2	8
72	4	4	TRACE	C	0	C	0	C	0	TRACE	2	0	4
73	5	3	3	1	0	0	0	0	0	0	6	5	6
74	3	2	TRACE	0	0	0	0	0	0	0	0	*5	*5
75	*2	4	TRACE	TRACE	0	0	0	0	0	0	1	*TRACE	4
76	*TRACE	2	TRACE	TRACE	0	0	0	0	0	C	TRACE	*4	*4
77	*9	TRACE	TRACE	TRACE	0	0	0	0	0	0	*1	*2	*9
78	*6	9	3	0	0	0	C	0	0	0	*TRACE	*4	9
79	*13	9	1	*0	0	0	0	C	0	0	*2	*4	*13
80	*12	3	TRACE	3	0	0	0	0	0	0	1	*8	*12
81	*10	10	8	*TRACE	0	0	0	0	C	2	3	*14	*14
82	*7	*1	0	0	0	0	0	0	0	0	TRACE	*4	*7
83	*3	7	1	0	0	0	0	0	0	0	1	*4	7
84	*7	6	1	3	0	C	0	0	0	0	TRACE	*TRACE	*7
85	*7	6	2	1	0	0	C	0	0	0	7	*9	*9
86	*8	7	4	TRACE	0	0	0	0	0	0	0	*7	*8
87	*10	7	8	C	0								
MEAN	6.9	5.4	2.8	.4	.0	.0	.0	.0	.0	.1	1.6	*.3	6.9
S.D.	3.239	3.388	3.799	.921	.000	.000	.000	.000	.000	.417	2.234	2.214	3.137
TOTAL OBS	730	676	744	687	713	660	713	713	690	713	687	687	8413

NOTE * (BASED ON LESS THAN FULL MONTHS)

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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 COMPLETE 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 VISIBILITIES 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/HAC

EXTREME VALUES OF SURFACE WINDS
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-R7

DAILY PEAK GUSTS IN KNOTS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62	E 46	ENE 20	WSW 30	E 35	SE 30	WNW 43	WSW 32	W 32	W 37	E 25	E *25	WSW 29	E 46
63	E *16	NW *33	ENE 31	WNW 35	NNW 50	WNW *32	W 29	NW *30	WNW *36	ESE 37	WNW 46	NE 30	NNW 50
64	SSW 37	WNW 45	W 31	W 29	SW 39	SW 33	W 38	W 32	E 30	ENE 26	W *39	WNW *56	NNW *56
65	W 45	WSW 28	WSW 41	W 33	WNW 33	W *30	SSW 31	W 29	WSW 26	SW 28	SSE 36	SW 42	W 45
66	WNW 30	NW 67	NNW 58	W 36	WSW 42	WSW 41	WNW 58	WNW 37	WNW 31	WSW 36	W 20	W 30	NW 67
67	NNW 34	WSW 17	W 40	W 30	W 36	W 30	27/ 39	29/ 23	25/ 25	27/ 21	29/ 21	9/ 26	W 40
68	29/ 22	29/ 28	24/ 25	29/ 40	24/ 34	25/ 27	32/ 41	28/ 33	28/ 23	30/ 39	27/ 40	11/ 23	32/ 41
69	30/ 24	25/ 34	24/ 34	27/ 34	31/ 26	34/ 30	30/ 24	28/ 18	29/ 28	28/ 31	27/ 39	30/ 40	30/ 40
70	27/ 30	29/ 25	28/ 36	28/ 28	8/ 21	32/ 28	31/ 18	28/ 30	29/ 15	28/ 26	23/ 43	9/ 33	23/ 43
71	10/ 27	9/ 16	27/ 42	27/ 26	29/ 30	24/ 28	29/ 19	31/ 26	27/ 29	28/ 21	30/ 48	11/ 23	30/ 48
72	29/ 17	29/ 26	3/ 19	28/ 34	31/ 28	27* 28	29* 27	32/ 20	29/ 29	28/ 28	27/ 39	29/ 36	27/ 39
73	25/ 32	26/ 42	27/ 25	28/ 23	29/ 34	31/ 26	31/ 32	28/ 25	27/ 25	25/ 20	24/ 40	28/ 42	26/ 42
74	28/ 26	9/ 22	9/ 32	29/ 26	5/ 23	29/ 26	27/ 26	12* 35	27/ 32	11/ 31	28/ 34	27/ 24	12* 35
75	28/ 42	10/ 26	8/ 24	31/ 23	27/ 31	32/ 28	34/ 28	36/ 21	27/ 29	26/ 18	28/ 24	21/ 28	28/ 42
76	28/ 21	28/ 26	31/ 30	29/ 40	15/ 22	25/ 24	32* 26	28* 20	29/ 28	32/ 35	26/ 42	28* 36	26/ 42
77	27/ 35	8/ 19	29/ 32	13/ 20	18/ 25	24/ 30	32* 28	33/ 28	32/ 34	31/ 23	33/ 17	29* 33	27/ 35
78	29/ 28	7/ 27	28/ 43	17* 27	27/ 40	21/ 25	33/ 36	25/ 23	27/ 30	31/ 44	29/ 30	27/ 35	31/ 44
79	31/ 22	28/ 29	32/ 28	27/ 34	9/ 23	28/ 27	17/ 25	27/ 33	26/ 30	33/ 23	27/ 28	26* 21	27/ 34
80	30/ 36	27/ 27	27/ 26	27/ 20	24/ 21	29/ 29	30/ 27	11/ 33	29/ 21	29/ 38	29/ 28	25/ 30	29/ 38
81	23/ 26	29/ 19	22/ 33	27/ 32	31/ 22	25/ 24	28/ 31	29/ 28	29/ 25	19/ 26	25/ 25	27* 35	27* 35
82	30/ 40	25/ 33	30/ 30	27/ 33	28/ 25	31/ 21	31/ 29	29/ 22	27/ 25	28/ 29	27/ 32	29* 26	30/ 40
83	29/ 34	25/ 31	29/ 22	32/ 22	26/ 28	26/ 27	30/ 31	28/ 15	25/ 23	26/ 22	26/ 56	32* 24	26/ 56
84	27/ 27	28/ 32	23/ 27	27/ 31	27/ 30	27/ 30	29/ 25	29/ 40	24/ 26	27/ 25	28/ 34	28/ 27	29/ 40
85	28/ 48	9/ 27	27/ 33	26/ 24	27/ 24	27/ 22	30/ 27	27/ 22	27/ 22	27/ 43	32/ 21	29/ 58	29/ 58
86	28/ 38	30/ 24	29/ 24	29/ 22	30/ 31								
87													
MEAN	32.0	28.8	31.8	29.6	29.9	28.5	31.0	27.1	27.7	29.0	33.8	32.5	45.4
S.D.	8.431	10.727	8.290	6.086	7.365	5.326	8.432	6.475	5.403	7.280	9.977	8.726	9.069
TOTAL OBS	752	697	771	743	769	701	743	751	741	764	731	728	889

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

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	GE 56		
N	.2	.3										.6	3.4
NNE	.2	.1										.3	2.7
NE	.2	.3	.2									.8	4.4
ENE	1.6	1.7	.9	.1								4.4	4.7
E	3.7	3.1	.5									7.3	3.5
ESE	3.0	1.5	.1									4.6	3.0
SE	1.9	.2										2.1	2.6
SSE	1.0	.3										1.4	2.8
S	1.9	.8										2.7	2.8
SSW	.8	1.3	.2									2.3	4.1
SW	.7	1.2	.7									2.6	4.8
WSW	1.3	2.1	1.6	.1								5.1	5.5
W	2.8	4.3	5.7	.9	.1							13.8	6.5
WNW	.8	1.4	2.1	.7	.1							5.1	7.2
NW	.7	1.0	.3	.1								2.2	4.9
NNW	.7	.2	.3									1.3	4.5
VARIABLE			3.8	2.4	.5							6.7	10.9
CALM	////////////////////											36.7	////
TOTALS	21.6	20.1	16.6	4.4	.7							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 802

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 7A-87
MONTH: JAN HOURS(IST): 0300-0500

DIRECTION (DEGR-ES)	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										.3	4.3
NNE	.7	.1										.8	2.1
NE	.1	.5	.1	.2								.9	6.5
ENE	1.4	2.4	.7									4.5	4.4
E	4.0	2.6	.3									7.0	3.4
ESE	3.0	.7										3.7	2.6
SE	1.7	.7										2.4	2.7
SSE	1.5	.6	.1									2.2	3.1
S	1.5	1.5	.3									3.3	3.8
SSW	.6	.7	.2									1.5	4.5
SW	.6	1.1										1.7	3.9
WSW	1.4	1.7	1.4									4.5	5.0
W	3.4	5.4	5.1	1.6								15.5	6.4
WNW	.5	.6	1.5	.7								3.2	7.9
NW	.9	1.3	.9									3.1	5.0
NNW	.6	.3		.5								1.4	6.4
VARIABLE			3.4	1.8	.2							5.5	10.7
CALM	////////////////////											38.5	////
TOTALS	21.8	20.6	14.1	4.8	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 871

GLOBAL CLIMATOLOGY BRANCH
USAF/TAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN 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	.6										1.1	3.6
NNE													
NE	.6	.6	.2	.2								1.6	5.1
ENE	1.2	1.6	1.0									3.9	4.7
E	3.1	3.7	.2	.1								7.1	3.7
ESE	4.0	.5										4.4	2.0
SE	2.6	1.0										3.6	2.5
SSE	2.5	.7	.1									3.3	2.9
S	1.2	2.3	.1									3.6	3.9
SSW	1.0	.6		.1								1.7	3.7
SW	.8	.8	.2									1.8	4.0
WSW	1.7	2.5	1.0	.2								5.4	5.1
W	2.5	4.0	4.3	1.9								12.7	6.8
WNW	.9	2.2	1.8	1.1								6.0	7.0
NW	.9	.7	.7	.2								2.5	5.6
NNW	.9	.1	.2	.1								1.4	4.2
VARIABLE			2.8	2.4								5.2	10.7
CALM	////////////////////											34.1	////
TOTALS	24.5	21.6	12.8	7.0								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 863

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 10670 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 79-87
MONTH: JAN HOURS(1ST): 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	56-60	61-69		
N	.2	.7	.1										.7	4.2
NNE	.1	.2											.3	3.3
NE	.3	.7	.1										1.1	4.0
ENE	.8	1.8	.4										3.0	4.6
E	3.0	3.9	.9										8.4	4.0
ESE	4.6	1.2											5.8	2.4
SE	2.4	1.7		.1									4.2	3.4
SSE	1.1	1.0											2.1	3.3
S	1.5	3.5	.1										5.1	4.1
SSW	1.2	.9	.7										2.8	4.6
SW	1.0	.7	.2	.7									2.6	4.7
WSW	.9	3.1	1.0	.3									5.4	5.7
W	2.4	4.0	4.6	2.2									13.3	7.1
WNW	1.2	1.6	2.7	.9	.2								6.6	7.4
W	1.1	.9	.9	.1									3.0	5.4
NNW	.3	.2	.6										1.1	5.3
VARIABLE			4.6	2.2	.1								7.5	10.1
CALM	////////////////////////////////////												27.8	////
TOTALS	22.4	25.9	17.0	6.2	.3								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 869

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN 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	.2	.1									.6	3.4
NNE	.2		.2									.4	5.5
NE	1.0	.4	.2									2.1	4.0
ENE	1.2	3.1	.9	.1								5.4	5.0
E	1.8	2.6	1.2									5.6	4.9
ESE	3.4	2.0	.3									5.7	3.2
SE	4.0	1.8	.2									6.1	3.0
SSE	1.7	1.9	.2									3.8	3.7
S	1.5	2.5	.4									4.4	4.4
SSW	.4	2.5	.4									3.3	4.4
SW	.5	1.2	1.1									3.1	5.3
WSW	1.6	1.2	2.5	.4								5.7	6.4
W	1.5	4.6	4.3	2.5								12.9	7.4
WNW	1.1	1.2	3.3	1.7	.1							7.4	6.1
NW	1.2	2.0	2.5	.4								6.2	6.5
NNW	.2	.8	.6	.1								1.7	6.1
VARIABLE		.1	7.1	2.4								9.6	5.8
CALM	////////////////////											15.5	////
TOTALS	22.3	29.8	25.6	7.6	.1							105.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 74-87
MONTH: JAN HOURS (LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56			
N	.3	.7	.3									1.0	5.4
NNE	.2	.1										.3	2.3
NE	.7	.9	.2									1.8	4.2
ENE	1.2	2.7	1.1									5.1	5.0
E	3.9	2.7	.7									7.3	3.8
ESE	3.9	1.2	.1									5.6	2.7
SE	2.9	.9										3.7	2.6
SSE	1.2	1.0										2.9	2.7
S	2.7	2.0	.8									5.5	3.8
SSW	1.7	.8	.2									2.7	3.5
SW	.6	1.2	.3	.1								2.2	5.7
WSW	1.5	2.9	1.2	.7								5.3	5.4
W	1.6	7.2	5.7	1.8								16.3	6.8
WNW	1.0	2.0	2.2	.2								5.5	6.4
NW	1.9	1.6	1.3	.7								5.1	5.1
NNW	.6	1.3	.3									2.2	4.5
VARIABLE		.2	5.1	1.6	.1							7.0	9.5
CALM	////////////////////											20.5	////
TOTALS	26.4	29.1	19.8	4.2	.1							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.2		.3									.6	6.8
NNE	.1											.1	2.0
NE	1.0	.8										1.8	3.1
ENE	1.0	2.0	1.0	.1								4.2	5.3
E	3.6	3.5	.1	.1								7.3	3.9
ESE	3.3	1.0										4.3	2.6
SE	1.2	1.2	.1									2.6	3.6
SSE	1.5	.4										1.9	2.8
S	1.7	1.8	.1									3.6	3.6
SSW	.6	.9	.6									2.0	5.1
SW	.7	1.6	.4									2.7	4.7
WSW	1.1	2.4	.7									4.2	4.9
W	2.1	7.2	4.4	2.2								15.9	6.7
WNW	1.0	2.0	1.5	.2								4.7	5.7
NW	1.5	.9	.9	.1								3.4	5.2
NNW	.2	.3	.1									.7	4.0
VARIABLE			3.6	1.3	.2	.1						5.3	10.3
CALM	////////////////////											34.9	////
TOTALS	20.8	26.0	13.8	4.2	.7	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN 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	.3	.2									1.0	4.7
NNE													
NE	.9	.1										1.0	2.6
NNE	1.7	1.8	.2	.2								4.0	4.4
E	3.4	3.6	.8	.2								8.0	4.2
ESE	3.5	1.2	.2									5.0	2.9
SE	2.0	.7	.1									2.8	2.7
SSE	1.1	.7										1.8	3.1
S	1.6	1.9										3.5	3.5
SSW	1.5	1.1	.7									3.3	4.3
SW	1.6	1.0	.1									2.7	3.5
WSW	1.5	1.0	1.7	.2								4.4	5.7
W	2.7	4.1	5.1	1.9	.1							13.9	7.0
WNW	1.1	2.0	1.7	.5	.1							5.4	6.3
NW	1.7	.9	.7									3.3	4.1
NNW			.1									.1	9.0
VARIABLE			3.6	1.9								5.5	10.1
CALM	////////////////////											34.2	////
TOTALS	24.7	20.6	15.3	5.0	.2							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN 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	.3	.3	.1								.8	4.4
NNE	.2	.1	.0								.3	3.0
NE	.6	.6	.1	.1							1.4	4.1
ENE	1.3	2.2	.8	.1							4.3	4.8
E	3.4	3.2	.6	.1							7.3	3.9
ESE	3.6	1.2	.1								4.9	2.7
SE	2.3	1.0	.1	.0							3.4	2.9
SSE	1.5	.8	.1								2.4	3.1
S	1.7	2.0	.2								4.0	3.8
SSW	1.0	1.1	.4	.0							2.5	4.3
SW	.8	1.1	.4	.0							2.4	4.5
WSW	1.4	2.1	1.4	.2							5.0	5.5
W	2.4	5.1	4.9	1.9	.0						14.3	6.8
WNW	1.0	1.6	2.1	.8	.1						5.5	7.0
NW	1.2	1.2	1.0	.2							3.6	5.3
NNW	.4	.4	.3	.1							1.2	5.1
VARIABLE	.0	4.3	2.1	.1	.0						6.5	10.2
CALM	////////////////////										30.2	////
TOTALS	23.1	24.1	16.9	5.4	.2	.0					100.0	3.8

TOTAL NUMBER OF OBSERVATIONS: 7063

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LOCAL): 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	.4	.1									.9	3.9
NNE	.7	.6										1.3	3.3
NE	1.5	1.3	.2									3.1	3.5
ENE	2.5	2.8	.5									5.8	3.9
E	4.6	5.3	1.1	.1								11.1	4.1
ESE	3.3	.5	.5									4.3	2.8
SE	.7	.5										1.2	3.0
SSE	1.1											1.1	1.7
S	.2	1.1	.1									1.4	4.8
SSW	.5		.4									.8	4.4
SW	.6		.1									.7	3.0
WSW	1.2	.6	.7									2.5	4.5
W	1.9	3.0	1.7	.1								6.6	5.2
WNW	.6	.6	.4	.1								1.7	5.0
NW	.6	.7	.1	.2								1.7	5.0
NNW	.7	.2										.9	2.4
VARIABLE			1.8	1.2	.1							3.1	10.3
CALM	////////////////////											51.9	////
TOTALS	21.2	17.5	7.6	1.8	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 846

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB 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	1.1	1.1										2.1	3.6
NNE	.5	.1										.6	2.0
NE	2.1	.7										2.8	3.0
ENE	2.8	2.4	.5									5.7	3.6
E	5.3	4.6	.9	.1								11.0	3.9
ESE	2.8	1.1	.1									4.0	2.8
SE	1.3											1.3	1.4
SSE	.6	.2										.8	2.6
S	.5	.5										.9	3.3
SSW	.4	.2										.6	3.2
SW	.5	.6	.1									1.2	4.4
WSW	1.3	.9	.6									2.8	4.2
W	1.8	2.4	1.8	.1								6.0	5.2
WNW	.7	.2	.4									1.3	4.1
NW	1.3	.2	.1									1.7	3.1
NNW	.8	.4										1.2	2.7
VARIABLE			2.4	1.3								3.7	9.9
CALM	////////////////////											52.2	////
TOTALS	23.9	15.6	6.9	1.5								100.0	2.0

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 7P-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	.5	.6										1.1	3.4
NNE	.4											.4	1.7
NE	1.5	.5										2.0	2.9
ENE	2.6	2.2	1.1									5.9	4.4
E	5.7	4.3	1.1	.1								11.1	3.9
ESE	4.6	1.3										5.9	2.5
SE	2.1	.2										2.4	2.0
SSE	.8											.8	2.0
S	.8	.4	.2									1.4	4.0
SSW	.8	.1										.9	2.4
SW	.5	.1	.2									.8	4.0
WSW	1.1	1.3	.7									3.1	4.7
W	1.3	2.7	1.5	.5								6.0	5.8
WNW	1.2	.5	.5	.2								2.4	4.9
NW	1.1	1.2	.1									2.4	3.7
NNW	1.2	.4	.1									1.7	2.9
VARIABLE			2.0	.7								2.7	10.2
CALM	////////////////////											49.1	////
TOTALS	26.1	15.7	7.6	1.5								100.0	2.1

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB 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	.5	.6										1.1	4.0
NNE	1.1	.2	.1									1.4	2.7
NE	1.1	1.5	.1									2.7	3.8
ENE	1.4	4.0	.7	.1								6.3	4.8
E	3.7	6.3	2.0									11.9	4.8
ESE	6.6	.9	.1									7.7	2.2
SE	3.5	.8										4.4	2.4
ESE	.9	.1										1.1	2.4
S	1.5	1.3	.1									3.0	3.6
SSW	.6	.2	.1									.9	3.6
SW	.4	.4										.7	3.7
WSW	.7	1.7	.5									2.8	4.8
W	2.5	3.4	3.2	.1								9.6	5.7
WNW	.9	.9	1.1	.4								3.3	5.9
NW	.9	.9	.1									2.0	3.9
NNW	.4	.9	.1									1.4	4.3
VARIABLE			4.1	.5								4.6	8.6
CALM	////////////////////											35.1	////
TOTALS	26.7	24.3	12.4	1.4								100.0	2.9

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	1.2	.1									1.4	5.2
NNE	.8	.6	.1									1.5	3.8
NE	2.4	1.9	.4									4.6	3.6
ENE	2.1	3.7	1.1	.1								7.0	4.8
E	2.0	7.1	2.1	.2								11.5	5.3
ESE	6.0	4.5	.5									11.0	3.6
SE	4.1	2.2	.7									7.1	3.5
SSE	1.5	1.1	.2									2.8	3.8
S	2.1	2.0	.5									4.6	3.8
SSW	1.5	.4										1.9	2.6
SW	.4	.5	.1									.9	4.5
WSW	.7	1.2	.4									2.2	4.7
W	1.5	4.1	2.8	.6								9.1	6.3
WNW	1.3	1.5	1.3	.2								4.4	5.9
NW	1.9	1.4	.6	.8								4.7	5.6
NNW	.5	.9	.4	.1								1.9	5.0
VARIABLE			7.1	1.3								8.4	9.0
CALM	////////////////////											14.9	////
TOTALS	29.1	34.3	18.3	3.4								100.0	4.3

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: 1C6873 STATION NAME: GRAFENWOHR AAF GFR

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	1.3	.8	.1									2.2	3.5
NNE	1.3	.6	.1									2.0	3.0
NE	3.0	2.0										5.0	3.2
ENE	2.5	4.8	1.4									8.7	4.7
E	3.9	7.7	1.4	.4								13.4	4.9
ESE	3.7	4.3	.1									8.0	3.4
SE	3.3	2.4	.2									5.9	3.3
SSE	1.2	.7	.4									2.2	4.0
S	2.2	1.2	.5									3.9	3.7
SSW	1.1	.6										1.7	2.9
SW	.7	1.2										1.9	3.7
WSW	1.3	1.4	.6									3.3	4.4
W	1.3	2.8	2.1	.4	.1							6.7	6.3
WNW	.9	2.5	.9	.6								5.0	5.8
NW	1.8	2.0	.7	.2	.1							4.8	5.0
NNW	2.2	1.2	.4									3.8	3.6
VARIABLE		.2	3.5	1.7	.1							5.6	9.5
CALM	////////////////////											15.8	////
TOTALS	31.7	36.4	12.5	3.2	.4							100.0	9.9

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	1.4	.6	.1									2.1	2.8
NNE	1.1	.1										1.2	2.4
NE	3.2	.4										3.5	2.1
ENE	3.4	2.7	.7									6.9	3.9
E	7.1	7.9	.7	.1								15.8	3.9
ESE	2.4	1.7	.1									4.1	3.3
SE	.9	.6	.1									1.7	3.4
SSE	.6	.1										.7	2.5
S	.4	.6	.2	.1								1.3	4.9
SSW	.2	.4										.6	3.6
SW	1.1	.2	.1									1.4	3.0
WSW	.9	.8	.4									2.0	4.2
W	2.4	3.1	1.4	.2	.2							7.3	5.4
WNW	.9	.9	.5	.1								2.5	4.9
NW	1.3	.9	.2	.1								2.6	4.0
NNW	2.9	.4	.2									3.4	2.6
VARIABLE			2.5	.4								2.9	9.0
CALM	////////////////////											40.0	////
TOTALS	30.0	21.4	7.3	1.1	.2							100.0	2.4

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB 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	1.2	.7										1.9	3.1
NNE	.7	.5										1.2	3.0
NE	1.5	1.3	.2									3.1	3.7
ENE	2.7	3.1	.2	.2								6.3	4.2
E	6.3	7.0	1.1									14.3	3.9
ESE	3.4	1.2										4.6	2.5
SE	1.1	.2										1.3	2.4
SSE	.5	.4										.8	2.5
S	.2	.2	.1									.6	4.4
SSW	.2	.6	.1									.9	4.4
SW	.4		.1									.5	3.5
WSW	1.3	1.3	.4									3.0	4.1
W	2.0	2.8	1.2	.5								6.5	5.4
WNW	.6	1.2	.4	.1								2.2	5.2
NW	1.1	.2	.1	.2								1.7	4.2
NNW	.6	.6		.1								1.3	3.8
VARIABLE			1.5	.								2.2	9.7
CALM	////////////////////											47.6	////
TOTALS	23.8	21.3	5.4	1.4								100.0	2.2

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: 106670 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB 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	.8	.7	.1									1.6	3.6
NNE	.8	.3	.0									1.2	2.9
NE	2.0	1.2	.1									3.4	3.2
ENE	2.5	3.2	.8	.1								6.6	4.3
E	4.8	6.2	1.3	.1								12.5	4.3
ESE	4.1	1.9	.2									6.2	3.8
SE	2.1	.9	.1									3.1	2.9
SSE	.9	.1	.1									1.3	1.1
S	1.0	.9	.2	.0								2.1	3.9
SSW	.7	.3	.1									1.0	3.2
SW	.5	.4	.1									1.0	1.7
WSW	1.0	1.2	.5									2.7	4.4
W	1.3	3.0	2.0	.4	.0							7.2	5.7
WNW	.9	1.0	.7	.2								2.9	5.4
NW	1.2	1.0	.3	.2	.0							2.7	4.5
NNW	1.2	.6	.1	.0								2.0	3.4
VARIABLE	.0	3.1	1.0	.0								4.1	5.4
CALM	////////////////////											38.3	////
TOTALS	26.5	23.3	9.8	2.0	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAL
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 136873 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DIRECTIONS)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N	.4	.2	.1									.8	4.0
NNE	.2											.2	2.0
NE	1.2	.2	.1									1.5	3.2
NNE	2.0	1.7	.3									4.1	3.6
E	4.6	1.6	.5									6.8	3.0
ESE	1.9	.1										1.9	1.8
SE	.4	.2										.6	2.5
SSE	1.0	.3										1.3	2.6
S	1.0	1.4	.1									2.5	4.1
SSW	1.2	.6	.3									1.9	3.9
SW	1.5	.2		.1								1.7	2.9
WSW	1.2	2.0	1.1	.2								4.5	5.7
W	2.2	4.5	2.6									9.1	5.1
WNW	.6	1.6	.9									3.1	5.4
NW	.2	.5	.1									.9	4.1
NNW	1.1	.1	.1									1.3	2.6
VARIABLE		.1	2.5	.3								2.9	6.8
CALM	////////////////////											54.6	////
TOTALS	20.4	15.7	8.6	.6								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/CLAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 16670 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR 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	.3	.1	.2									.6	4.7
NNE	.2											.2	1.5
NE	.8	.6	.1									1.5	3.6
ENE	2.4	1.0	.2									3.5	3.1
E	3.9	2.2	.1									6.1	2.9
ESE	3.1	.5	.2									3.9	2.6
SE	1.1	.2										1.3	2.3
SSE	.4	.6										1.1	3.4
S	1.5	.9	.1									2.5	3.5
SSW	.6	.9	.1									1.6	3.9
SW	1.5	.8	.2									2.5	3.6
WSW	1.1	2.5	1.1	.2								4.8	5.4
W	2.9	4.0	1.8	.3	.1							9.1	4.9
WNW	1.0	2.3	1.0	.2								4.4	5.4
NW	1.3	.4	.1	.3								1.8	5.3
NNW	1.1	.1										1.2	1.9
VARIABLE			1.9	.9								2.8	9.6
CALM	////////////////////											51.0	////
TOTALS	22.3	17.0	7.2	1.0	.1							100.0	2.1

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR 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	.3										1.0	2.7
NNE	.3	.1										.4	2.5
NE	.5	.2										.8	2.7
NNE	2.2	.8	.4									3.3	3.6
E	4.3	4.5	.2									9.6	3.4
ESE	3.2	.8										4.0	2.4
SE	2.3	1.0										3.2	2.7
SSE	.8	1.0										1.7	3.4
S	1.1	.8	.4									2.3	4.0
SSW	1.2	.5										1.7	3.3
SW	1.3	1.7	.1									3.1	3.7
WSW	2.2	1.7	.4	.1								4.4	4.2
W	1.8	5.1	3.2	.5								10.6	5.7
WNW	.6	1.3	1.1	.4								3.4	6.6
NW	.3	.4	.2	.1								1.1	5.5
NNW	1.1	.3	.3	.1								1.8	4.4
VARIABLE			1.9	.5								2.5	8.9
CALM	////////////////////											45.1	////
TOTALS	24.3	20.4	6.4	1.8								100.0	2.4

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	34-40	41-47	48-55	GE 56		
N	.5	.9	.1									1.5	4.0
NNE	.4	.1	.1									.6	3.3
NE	.6	1.0										1.6	3.7
ENE	2.5	2.8	.4									5.7	4.1
E	3.7	3.9	.5									8.1	3.8
ESE	4.0	1.6	.2									5.8	2.9
SE	3.0	2.4	.4									5.8	3.8
SSE	.5	1.7	.6									3.0	4.4
S	1.7	2.9	.4	.3								5.4	4.7
SSW	1.8	2.4	1.2									5.4	4.8
SW	1.5	1.3	.4									3.2	4.1
WSW	1.6	3.1	1.5	.4								6.7	5.6
W	.5	3.4	4.0	1.2								9.1	7.4
WNW	.9	1.6	2.3	1.1								5.7	7.1
NW	.9	.9	1.0	.4								3.0	6.1
NNW	.6	1.1	.3	.1								2.2	4.7
VARIABLE			7.8	1.9								9.8	9.2
CALM	////////////////////											17.4	////
TOTALS	24.7	31.0	21.4	5.5								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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	.4	1.1	.2									1.7	4.5
NNE	.6	.5										1.2	3.3
NE	1.5	2.3	.2									4.0	4.1
ENE	1.9	2.7	.3									4.9	4.1
E	1.3	2.8	.2									4.3	4.3
ESE	2.5	3.7	.2									6.3	3.9
SE	1.7	2.5	1.1									5.3	4.4
SSE	.9	2.2	.6									3.7	4.9
S	1.5	2.6	1.2	.3								5.6	5.3
SSW	1.4	2.8	1.0	.2								5.4	5.1
SW	.7	2.2	1.3									3.7	6.1
WSW	.8	2.6	1.6	.2								5.2	6.0
W	.6	3.9	4.0	1.5								10.0	7.4
WNW	.6	2.3	4.1	.8								7.7	7.3
NW	.4	.6	1.8	.8	.1							3.8	8.2
NNW	1.1	1.4	1.1	.1								3.7	5.4
VARIABLE			12.9	2.8	.1							15.8	9.5
CALM	////////////////////											7.8	////
TOTALS	17.5	35.9	31.8	6.7	.2							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF TAC
AIR CATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DEGR-ES)	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	.9	.2								1.6	4.2
NNE	1.3	.6									1.9	2.8
NE	2.2	1.6									3.8	3.3
ENE	2.3	2.6	.6								5.6	4.1
E	2.9	3.9	.5								7.3	3.9
ESE	2.3	3.1	.4								5.8	4.0
SE	1.8	1.5	.4								3.8	4.1
SSE	1.3	1.0	.3								2.6	4.0
S	.9	2.2	.8								3.9	4.6
SSW	1.6	2.6	.5								4.7	4.3
SW	1.8	3.2	1.2	.1							6.3	4.9
WSW	1.0	1.6	1.7								4.3	5.6
W	1.0	5.6	5.6	1.2	.1						13.4	7.1
WNW	1.2	1.8	3.1	.4	.1						6.7	7.0
NW	1.3	1.0	1.2	.3							3.8	5.8
NNW	1.8	2.2	1.0	.1							5.1	4.8
VARIABLE		9.0	2.9	.2							12.2	9.5
CALM	////////////////////										7.4	////
TOTALS	25.1	35.3	26.8	5.1	.4						100.0	5.2

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR 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	GE 56		
N	1.4	.5	.1									2.0	2.9
NNE	.6	.4										1.1	2.5
NE	2.0	1.0	.1									3.1	3.2
ENE	2.0	1.9	.3									4.3	3.7
E	5.5	2.9	.9									9.2	3.4
ESE	3.3	.4										3.8	2.0
SE	1.3	.1										1.4	2.4
SSE	1.1	.5	.1									1.7	3.7
S	2.2	.6	.2	.1								3.1	3.5
SSW	2.6	.8	.4									3.8	3.4
SW	1.3	1.2	.5									3.0	4.0
WSW	2.7	2.2	.4									5.3	3.8
W	4.3	4.9	2.8									12.0	4.7
WNW	1.0	2.5	.9	.3								4.6	5.3
NW	.3	.5	.3									1.2	4.9
NNW	1.3	1.1	.1									3.0	3.2
VARIABLE			2.7	.2								2.9	8.8
CALM	////////////////////											34.4	////
TOTALS	33.4	21.6	9.9	.6								100.0	2.6

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.4	.1									.5	2.4
NNE	.1	.1									.4	2.8
NE	1.3	.5	.1								1.9	3.0
ENE	1.8	1.6	.3								3.8	3.9
E	5.2	3.0	.2								8.4	3.0
ESE	1.5	.3									1.8	2.0
SE	.5										.5	2.2
SSE	1.2	.3	.1								1.6	2.9
S	1.1	.8	.1								1.9	3.8
SSW	1.1	.5	.5	.1							2.3	4.3
SW	1.2	1.0	.6	.1							2.9	4.7
WSW	1.8	1.6	.9	.1							4.4	4.8
W	3.1	4.1	1.1								8.3	4.4
WNW	.6	1.0	1.2	.1							2.9	5.9
NW	.6	.3	.3								1.3	4.5
NNW	1.5	.3	.1	.1							2.0	3.1
VARIABLE			1.7	.4							2.2	9.4
CALM	////////////////////										52.8	////
TOTALS	23.3	15.6	7.3	1.0							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/ITAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.6	.5	.1									1.2	3.7
NNE	.5	.2	.0									.9	2.8
NE	1.3	.9	.1									2.3	3.5
ENE	2.1	1.9	.4									4.4	3.8
E	4.0	2.1	.4									7.5	3.4
ESE	2.7	1.3	.1									4.2	3.0
SE	1.5	1.0	.2									2.7	3.6
SSE	.9	1.0	.2									2.1	3.9
S	1.4	1.5	.4	.1								3.4	4.4
SSW	1.4	1.4	.5	.0								3.3	4.3
SW	1.3	1.5	.6	.0								3.3	4.4
WSW	1.5	2.2	1.1	.2								4.9	5.2
W	2.1	4.4	3.1	.6	.0							10.2	5.9
WNW	.8	1.8	1.8	.4	.0							4.8	6.5
NW	.6	.6	.6	.2	.0							2.1	6.1
NNW	1.3	.8	.4	.1								2.5	4.1
VARIABLE		.0	5.1	1.2	.0							6.4	9.3
CALM	////////////////////											33.8	////
TOTALS	24.0	24.1	15.2	2.9	.1							100.0	3.3

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	.5	.5									.9	3.4
NNE		.3									.3	5.0
NE	1.8	.2									2.0	2.4
ENE	2.2	.7	.1								2.8	2.9
E	1.7	1.1	.3								3.2	3.6
ESE	1.1	.3									1.5	2.6
SE	.1										.1	2.0
SSE	.6										.6	2.0
S	.3	.1									.5	2.0
SSW	.1	.2									.6	3.0
SW	.5	.1									.6	3.0
WSW	1.8	1.1	.8								3.7	4.1
W	4.1	3.4	2.5	.3							10.5	4.8
WNW	1.2	1.9	.8	.2							4.2	4.8
NW	1.9	1.5	.3	.1							3.8	4.1
NNW	1.6	.9	.1								2.6	3.0
VARIABLE		.1	.3								.5	7.8
CALM	////////////////////										61.7	////
TOTALS	19.9	12.6	5.3	.7							100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 864

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: APR 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	.9										1.8	3.3
NNE	.6											.6	2.0
NE	.7	.6										1.2	3.2
ENE	1.0	1.4	.2									2.6	3.8
E	1.7	1.4	.1									3.2	3.4
ESE	1.4	.1										1.5	1.9
SE	.6	.1										.7	2.2
SSE		.2										.2	5.5
S	.8		.1									.9	2.6
SSW	.2	.1										.3	3.0
SW	.6	.9										1.5	3.7
WSW	1.1	1.2	.6									2.9	4.3
W	3.4	4.9	2.5	.5								11.2	5.0
WNW	1.2	2.4	.3									4.0	4.1
NW	1.4	1.0	.7									3.1	4.3
NNW	1.4	1.1										2.5	3.1
VARIABLE			.9	.2								1.1	8.7
CALM	////////////////////											60.8	////
TOTALS	16.8	16.3	5.4	.7								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: APR 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	1.0										2.0	3.5
NNE	.1	.3										.5	3.8
NE	.9	.7										1.6	3.2
ENE	2.1	1.0	.5									3.6	3.6
E	2.7	2.0	.3									5.1	3.4
ESE	1.7	.6	.1									2.4	2.6
SE	1.2	.1										1.4	2.2
SSE	.1	.1										.5	2.5
S	.7	.5										1.1	2.9
SSW	.8	.7	.1									1.6	3.6
SW	.7	1.2	.2									2.1	4.4
WSW	.8	2.0	.8									3.6	5.1
W	3.0	4.3	2.5	.6								10.4	5.5
WNW	.6	2.1	1.1									3.8	5.5
NW	2.1	1.8	.8	.1								4.8	4.4
NNW	2.0	1.4	.3									3.7	3.5
VARIABLE		.1	1.2	.4								2.1	6.4
CALM	////////////////////											49.7	////
TOTALS	20.9	20.0	8.0	1.5								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AAF GFR

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	1.2	1.8	.4									3.5	4.3
NNE	1.2	1.2	.2									2.7	3.7
NE	.4	2.4	.1									2.9	4.9
ENE	1.0	3.7	.6									5.3	4.7
E	1.9	4.3	.3									6.5	4.2
ESE	3.8	3.0	.2									7.1	3.3
SE	2.9	1.8	.2									4.9	3.3
SSE	1.6	1.1										2.7	3.2
S	1.0	.8	.2									2.0	3.8
SSW	1.1	1.7	.3									3.1	4.4
SW	1.0	1.0	.3	.1								2.5	4.8
WSW	.8	2.2	.7									3.7	5.2
W	2.4	4.7	3.4	1.0								11.4	6.3
WNW	1.9	2.0	2.7	.8								7.4	6.3
NW	1.9	2.1	2.2	.1								6.4	5.3
NNW	1.0	2.4	.6									3.9	4.6
VARIABLE		.1	10.2	1.6	.2							12.1	9.0
CALM	////////////////////											11.8	////
TOTALS	25.3	36.4	22.8	3.6	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 841

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

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	1.0	1.7	.4	.1								3.3	4.9
NNE	1.7	1.8	.3									3.9	3.9
NE	1.2	1.9	.3									3.4	4.4
ENE	.9	3.5	.4	.1								4.9	4.8
E	1.7	3.0	.1									4.8	4.2
ESE	1.9	3.6	.1									5.6	4.2
SE	.9	2.7	1.3	.1								5.1	5.6
SSE	2.0	1.6	.3									3.9	3.6
S	1.3	1.7	.3									3.4	3.9
SSW	1.0	1.2	.4									2.7	4.4
SW	.7	2.0	.2	.1								3.0	4.9
WSW	1.6	2.8	1.7									6.1	5.2
W	2.0	4.7	3.9	.7								11.3	6.1
WNW	1.6	2.8	3.1	.7								8.2	6.4
NW	.9	2.7	2.7	.4								6.3	6.6
NNW	1.0	2.9	1.2									5.2	5.2
VARIABLE	.1	.4	12.6	3.3								16.4	6.7
CALM	////////////////////////////////////											2.7	////
TOTALS	21.5	40.5	29.7	5.5								107.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: APR 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	34-40	41-47	48-55	GE 56		
N	1.5	2.8	.5									4.7	4.4
NNE	1.5	1.1	.1									2.7	3.3
NE	1.2	2.5	.5	.1								4.3	4.9
ENE	2.0	2.1	.9									5.1	4.4
E	2.0	4.7	.3									7.1	4.5
ESE	1.5	3.2	.2	.2								5.1	4.5
SE	.9	1.9	.1									2.9	4.1
SSE	1.6	1.5	.3									3.4	3.8
S	1.4	1.8	.6									3.7	4.5
SSW	1.5	.9										2.4	3.1
SW	.7	1.4	.1									2.1	4.3
WSW	1.0	2.6	1.4	.2								5.2	5.4
W	2.1	6.3	4.7	.6								13.7	6.1
WNW	1.6	2.7	2.8	.2								4.0	6.5
NW	1.0	3.9	3.4	.5								8.8	6.3
NNW	1.4	3.2	1.2	.3								6.6	5.0
VARIABLE			7.7	1.6	.1							9.3	6.1
CALM	////////////////////											4.8	////
TOTALS	27.1	42.6	24.9	4.4	.1							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFH

PERIOD OF RECORD: 7A-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	56-59		
N	4.2	2.4	.1									6.7	3.3
NNE	1.9	.6										2.5	2.9
NE	2.4	.7	.3									3.4	3.1
ENE	2.4	1.1	.1									3.6	3.2
E	5.1	2.9	.3									8.4	3.2
ESE	1.6	.7	.2									2.5	2.9
SE	.6	.1										.7	2.5
SSE	1.5	.6										2.0	2.8
S	.6	.3										.9	3.3
SSW	1.8	.6	.2									2.6	3.1
SW	1.0	.6										1.6	3.2
WSW	1.7	1.2	.3									3.3	4.0
W	2.2	6.7	2.5	.2								11.6	5.1
WNW	2.7	2.5	2.2	.1								7.5	5.0
NW	1.1	2.5	1.0									4.6	5.0
NNW	3.3	1.1	.3									4.8	3.2
VARIABLE		.1	1.5	.2	.1							1.9	4.2
CALM	////////////////////											31.5	////
TOTALS	34.0	24.7	9.2	.6	.1							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 176870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: APR 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	1.6	.1								2.8	3.5
NNE	1.5	.3									1.8	2.3
NE	2.2	.5	.1								2.7	2.4
ENE	1.6	1.1									2.7	3.2
E	3.7	1.6	.1								5.4	3.0
ESE	.6	.3									.9	3.0
SE	.2										.2	2.0
SSE	.1	.1									.2	3.5
S	.8	.3									1.1	2.8
SSW	.7	.3	.1								1.1	3.9
SW	.7	.2	.2								1.1	4.1
WSW	1.6	.6	.9								3.1	4.2
W	2.6	4.8	2.0		.1						9.5	5.0
WNW	1.1	1.2	1.2	.1							3.7	5.2
NW	1.6	1.6	.2	.1							3.5	4.0
NNW	2.3	.7	.1								3.1	2.9
VARIABLE			.5	.2							.7	9.7
CALM	////////////////////										56.1	////
TOTALS	22.3	15.3	5.7	.4	.1						100.0	1.7

TOTAL NUMBER OF OBSERVATIONS: 882

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 72-87
MONTH: APR 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	1.4	1.6	.2	.0							3.2	3.9
NNE	1.1	.7	.1								1.9	3.3
NL	1.4	1.2	.2	.0							2.7	3.8
ENE	1.6	1.8	.4	.0							3.8	4.0
E	2.6	2.6	.3								5.5	3.7
ESE	1.7	1.5	.1	.0							3.3	3.5
SE	.9	.8	.2	.0							2.0	4.0
SSE	1.0	.6	.1								1.7	3.4
S	.9	.7	.2								1.7	3.7
SSW	.9	.7	.2								1.8	3.7
SW	.7	.9	.1	.0							1.8	4.3
WSW	1.3	1.7	.9	.0							3.9	4.6
W	2.7	5.0	3.0	.5	.0						11.2	5.5
WNW	1.5	2.2	1.8	.4							5.9	5.7
NW	1.5	2.1	1.4	.2							5.2	5.2
NNW	1.8	1.7	.5	.0							4.0	4.1
VARIABLE	.0	.1	4.4	1.0	.1						5.5	9.1
CALM	////////////////////										34.8	////
TOTALS	21.0	26.1	13.9	2.2	.1						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 7091

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(1ST): 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	.7	.1										.8	2.4
NNE	.4	.1										.5	2.2
NE	1.3	.1										1.4	2.2
ENE	2.2	1.3										3.3	3.1
E	2.6	1.6	.2									4.5	3.2
ESE	1.1											1.1	2.1
SE	.2											.2	1.5
SSE	.1	.4										.9	4.0
S	.7											.7	2.2
SSW	.9											.9	2.0
SW	.5	.2										.8	2.7
WSW	2.2	1.1	.2									3.5	3.0
W	3.2	2.5	.9									6.5	3.9
WNW	1.2	1.6	.7	.1	.1							3.7	5.0
NW	1.3	.9	.3									2.5	3.8
NNW	1.3	.4										1.7	2.6
VARIABLE			.7									.7	7.8
CALM	////////////////////											66.6	////
TOTALS	19.8	10.6	2.9	.1	.1							100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY 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											.9	1.9
NNE	.7	.1										.8	2.6
NE	.5	.3										.9	3.1
NNE	1.4	.7	.2									2.3	3.3
E	2.8	1.4	.3									4.6	3.3
ESE	1.7											1.7	1.6
SE	.4	.1										.5	2.6
SSE	.5	.1										.7	2.3
S	.4	.4										.9	3.4
SSW	1.0											1.0	1.8
SW	.5	.7										1.2	3.6
WSW	1.4	1.1	.2									2.7	3.5
W	3.6	2.9	.8	.1								7.4	4.0
WNW	1.1	1.6	.1									2.8	4.0
NW	.8	.7										1.4	3.2
NNW	1.7	.3										2.1	2.5
VARIABLE			.7									.7	8.0
CALM	////////////////////											67.5	////
TOTALS	19.6	10.5	2.3	.1								100.0	1.1

TOTAL NUMBER OF OBSERVATIONS: 918

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
 MONTH: MAY HOURS/LS11: 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	56-60		
N	.3	.5										.9	3.6
NNE	.6	.2										.9	3.0
NE	1.2	.6										1.8	2.9
ENE	2.4	2.1										4.4	3.3
E	4.5	2.6	.3									7.5	3.5
ESE	4.2	.6										4.9	2.3
SE	3.4	.2										3.6	2.1
SSE	1.5	.2										1.7	1.9
S	2.1	1.3										3.4	2.6
SSW	1.1	.4										1.5	3.1
SW	.7	.4										1.3	2.8
WSW	2.7	2.4	.2									5.3	3.5
W	3.2	3.7	1.4	.2								8.5	4.6
WNW	1.7	2.5	.1									4.3	3.7
NW	2.2	1.1										3.2	3.0
NNW	1.9	.5										2.5	2.3
VARIABLE			1.3	.1								1.4	8.7
CALM	////////////////////											42.9	////
TOTALS	34.0	19.5	3.4	.3								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY 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	1.2	.4										1.6	2.9
NNE	1.8	.4										2.3	2.4
NE	1.5	1.2										2.7	3.4
ENE	1.3	2.4	.4									4.1	4.6
E	3.2	3.7	.4									7.1	3.8
ESE	5.7	4.0	.5									10.2	3.4
SE	3.1	2.3	.3									5.7	3.5
SSE	1.7	1.7	.5									4.0	4.0
S	2.4	2.8	1.0									6.1	4.3
SSW	1.4	2.5	.2									4.1	4.1
SW	1.5	1.9	.3									3.8	4.0
WSW	1.6	2.9	.8	.1								5.4	4.8
W	2.4	4.3	2.4	.2								9.2	5.3
WNW	1.2	2.9	1.1	.3								5.5	5.4
NW	1.1	2.3	1.3									4.6	4.9
NNW	3.4	2.0	.3									5.8	3.6
VARIABLE			7.3	.3								7.6	8.3
CALM	////////////////////											10.2	////
TOTALS	34.3	37.6	16.9	1.0								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 930 1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

PERIOD OF RECORD: 78-87
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	34-40	41-47	48-55	GE 56		
N	2.3	1.6	.2	.1								4.2	4.1
NNE	1.0	1.4										2.4	3.6
NE	1.6	1.3	.1									3.0	3.4
ENE	1.8	2.6	.3									4.7	4.1
E	2.4	3.1	.1									5.6	3.8
ESE	3.2	4.4	.5									8.2	4.2
SE	1.2	2.3	.9									4.3	5.0
SSE	1.2	1.8	.3	.1								3.4	4.6
S	1.6	2.9	.5									5.1	4.5
SSW	1.8	2.9	.2									4.9	3.8
SW	1.1	3.4	.4	.1								5.3	4.7
WSW	1.4	2.6	1.2	.1								5.3	5.1
W	1.5	4.9	3.1	.5								10.1	6.1
WNW	1.8	4.5	3.9	.2								10.1	5.7
NW	1.1	2.0	1.0	.1								4.2	5.4
NNW	1.7	1.5	.8									4.0	4.3
VARIABLE			10.6	.9	.1							11.6	8.4
CALM	////////////////////											3.7	////
TOTALS	26.9	43.3	23.9	2.2	.1							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 9930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY 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	1.9	1.6	.4									4.0	3.9
NNE	1.9	1.1										3.0	3.4
NE	1.3	.9										2.2	3.1
ENE	1.7	1.6	1.1									4.4	4.6
E	2.5	4.4	.4									7.3	4.1
ESE	3.1	2.0	.4									5.6	3.8
SE	2.2	1.9	.2									4.3	3.8
SSE	.4	1.9	.4	.1								3.2	5.2
S	2.3	2.3	.6									5.2	4.0
SSW	2.5	2.5	.2									5.2	3.8
SW	1.5	2.5	.1									4.1	4.1
WSW	1.2	2.9	1.1									5.2	4.9
W	2.6	6.6	3.6	.4	.1							13.3	5.8
WNW	1.3	3.2	2.7	.9								8.1	6.4
NW	1.2	2.9	1.7	.2								5.8	5.7
NNW	2.2	2.7	.9	.1								5.8	4.5
VARIABLE		.2	7.1	1.0	.3							8.6	8.9
CALM	////////////////////											4.6	////
TOTALS	29.9	41.7	21.0	2.7	.4							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	34-40	41-47	48-55	GE 56	
N	2.7	1.1	.1								3.9	3.0
NNE	1.5	.2									1.7	2.4
NE	1.7	.8									2.5	2.8
ENE	2.5	.7	.1								3.3	2.8
E	6.5	3.4	.4								10.3	3.2
ESE	2.5	1.4									3.9	3.1
SE	1.5	.4	.1								2.1	2.9
SSE	1.3	.1	.1								1.5	2.6
S	2.1	.9	.1								3.0	3.0
SSW	.7	.4	.1								1.2	3.3
SW	1.6	1.1	.2								2.9	3.6
WSW	2.9	2.1	.5	.1							5.6	3.9
W	3.8	5.1	1.2	.3							10.4	4.6
WNW	1.6	2.8	2.2	.1							6.7	5.4
NW	2.0	1.3	1.2								4.5	4.5
NNW	2.4	2.8	.2								5.4	3.6
VARIABLE		.1	2.8	.3	.1						3.4	8.5
CALM	////////////////////										27.6	////
TOTALS	37.4	24.6	9.4	.9	.1						100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	.9	.4										1.3	3.0
NNE	.9											.9	1.5
NE	2.0	.3										2.3	2.2
ENE	3.3	1.0										4.2	2.5
E	5.2	2.0	.1									7.3	2.8
ESE	1.1	.2										1.3	2.4
SE	.2											.2	1.5
SSE	.8											.8	1.9
S	.7	.1										.8	2.3
SSW	.3		.1									.4	3.3
SW	.5	.2		.1								.9	4.1
WSW	2.0	1.3										3.3	3.1
W	2.7	2.6	1.2									6.5	4.3
WNW	2.0	2.1	.9	.1								5.0	4.8
NW	1.7	1.1	.4	.2								3.5	4.2
NNW	1.7	.3										2.4	2.5
VARIABLE			.4									.4	7.5
CALP	////////////////////											58.7	////
TOTALS	25.8	11.9	3.1	.4								100.0	1.4

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY FOUR (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	1.4	.7	.1	.0								2.2	3.4
NNE	1.1	.4										1.6	2.9
NE	1.4	.7	.0									2.1	3.0
ENE	2.0	1.5	.3									3.8	3.6
E	3.7	2.8	.3									6.8	3.5
ESE	2.9	1.6	.2									4.6	3.3
SE	1.5	.9	.2									2.6	3.5
SSE	1.0	.6	.2	.0								2.0	3.8
S	1.5	1.3	.3									3.1	3.8
SSW	1.2	1.1	.1									2.4	3.6
SW	1.1	1.3	.1	.0								2.5	4.0
WSW	1.9	2.0	.5	.0								4.5	4.1
W	2.9	4.1	1.8	.2	.0							9.0	5.0
WNW	1.5	2.7	1.4	.2	.0							5.9	5.2
NW	1.4	1.5	.7	.1								3.7	4.6
NNW	2.1	1.4	.7	.0								3.7	3.5
VARIABLE		.0	3.9	.3	.1							4.3	4.5
CALM	////////////////////											35.1	////
TOTALS	28.5	25.0	10.4	1.0	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 7390

GLOBAL CLIMATOLOGY BRANCH
USAF/FLTC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	.3										.9	3.0
NNE	.1	.1										.2	3.0
NE	.3											.3	1.7
NNE	.9	.3										1.2	2.4
E	1.3	.2										1.6	2.2
ESE	.6											.6	1.2
SE	.4											.4	2.0
ESE	.6											.6	1.8
S	.3											.3	2.0
SSW	.4	.4	.1									1.0	3.4
SW	1.0	.1										1.1	2.3
WSW	2.2	.9	.1									3.2	3.2
W	5.6	3.6	1.3	.1								10.6	3.9
WNW	1.5	1.2	.3	.1								3.2	4.3
NW	1.1	.4	.4									2.0	3.4
NNW	1.5	.1										1.6	2.2
VARIABLE			.4	.1								.5	4.2
CALM	////////////////////											70.0	////
TOTALS	19.1	7.4	2.8	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS (LST): 0100-0500

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	.2										.8	2.6
NNE													
NE	.4											.4	2.8
NNE	.3	.3										.7	2.8
E	.4	.2										1.7	2.3
ESE	.6	.1										.7	1.8
SE	.2											.2	1.5
SSE	.6											.6	2.4
S	1.1	.3										1.4	2.2
SSW	.8		.1									.9	2.5
SW	.8	.6	.1									1.4	3.6
WSW	1.3	.8	.7									3.2	4.0
W	5.1	4.3	1.1									10.6	3.8
WNW	1.7	1.8	.3	.1								3.9	4.0
NW	1.1	.6	.6									2.2	4.3
NNW	1.6	.3										1.9	2.8
VARIABLE				.9								.9	4.5
CALM	////////////////////											68.5	////
TOTALS	10.0	9.6	3.8	.1								100.0	1.1

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 136970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN 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	1.1	.1										1.2	2.2
NNE	.1	.1										.2	2.5
NL	.7	.7										.9	2.9
NNE	1.2	.3	.1									1.7	3.3
E	2.2	1.4										3.7	2.9
ESE	2.9	.7										3.6	2.3
SE	2.3	.7										2.6	2.3
ESE	1.3	.1										1.4	1.8
S	1.7	.4	.1									2.2	2.8
SSW	1.0	.4	.7	.1								1.8	4.0
SW	1.1	.8										1.9	3.4
WSW	1.9	1.7	.3									3.9	3.8
W	4.1	2.4	2.9	.2								14.7	4.9
WNW	2.3	3.1	.7	.4								6.6	5.0
NW	2.1	2.0	.2									4.3	3.7
NNW	2.1	.2	.2									2.6	2.5
VARIABLE			2.4	.4								2.9	4.7
CALM	////////////////////////////////////											44.0	////
TOTALS	28.2	19.3	7.2	1.2								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN 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	56-60		
N	.8	.8	.1									1.7	3.8
NNE	.9	.3										1.2	2.9
NE	1.0	.6										1.6	2.8
ENE	1.9	.4	.1									2.3	2.9
E	2.6	2.0	.3									4.9	3.7
ESE	3.1	1.8	.1									5.2	3.2
SE	2.2	1.8	.2									4.2	3.6
SSE	2.8	1.2	.1									4.1	3.1
S	2.9	2.3	.1									5.3	3.3
SSW	1.0	1.0	.4									2.4	4.5
SW	1.2	1.6	.3									2.9	4.3
WSW	1.3	4.3	1.6									7.2	5.3
W	3.0	9.3	4.8	.3								17.4	5.7
WNW	1.9	3.7	3.6	.6								9.7	6.1
NW	.9	1.8	1.8	.2								4.7	6.0
NNW	2.0	2.1	.3									4.4	4.0
VARIABLE		.2	8.6	1.6	.1							10.4	8.9
CALM	////////////////////											10.2	////
TOTALS	29.3	35.2	22.4	2.7	.1							100.0	4.6

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 HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	1.8	.8	.1									2.7	3.1
NNE	.8	.7										1.4	3.2
NE	.8	1.2	.1									2.1	4.0
ENE	1.8	.4										2.2	2.7
E	2.3	2.3	.1									4.8	3.5
ESE	1.4	1.6	.3									3.3	4.0
SE	1.4	1.4	.3									3.2	4.1
SSE	1.2	.9	.1	.1								2.3	4.1
S	1.6	2.3	.8									4.7	4.4
SSW	1.4	2.9	.1									4.4	4.1
SW	.9	1.9	.9	.1								3.8	5.4
WSW	1.6	3.0	.9									5.4	4.8
W	1.9	7.3	4.8	.3								14.3	6.0
WNW	1.3	4.3	5.9	1.0								12.6	7.0
NW	1.1	3.1	1.8	.4								6.4	6.0
NNW	2.3	2.6	.4									5.3	3.8
VARIABLE		.7	13.8	2.1								16.8	8.9
CALM	////////////////////											4.1	////
TOTALS	23.7	37.4	30.4	4.3								100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MSC

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

STATION NUMBER: 196870 STATION NAME: GRAFENWOHR AAF GFR

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	1.9	2.0	.1									4.0	3.5	
NNE	1.3	1.2										2.6	3.2	
NE	1.8	.8										2.6	3.2	
ENE	1.6	1.4										3.0	3.3	
E	1.6	2.3	.1									4.0	3.8	
ESE	2.3	1.8	.1									4.2	3.5	
SE	1.3	1.1	.1									2.6	3.3	
SSE	1.1	.7	.3									2.1	3.9	
S	1.1	1.4	.4									3.0	4.4	
SSW	1.7	1.8	.7	.1								3.8	4.5	
SW	1.1	1.7	.3									3.1	4.4	
WSW	1.7	1.2	1.1									6.4	4.9	
W	2.6	7.0	4.9	.8								15.2	6.0	
WNW	1.3	4.4	5.1	1.6								12.4	7.1	
NW	1.4	2.3	3.1	.4								7.3	6.1	
NNW	2.1	3.6	1.2	.1								7.0	4.8	
VARIABLE		.7	4.9	2.6								12.1	9.0	
CALM	////////////////////												4.6	////
TOTALS	25.9	37.4	27.1	5.0								103.0	5.3	

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN 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	GE 56		
N	2.8	1.0										3.8	2.7
NNE	1.9	.7										2.6	2.4
NF	1.4	.3										1.8	2.3
ENE	3.1	.3	.2									3.7	2.5
E	3.7	1.7										5.3	2.8
ESE	1.7	1.0	.1									2.8	3.2
SE	.8	.3	.3									1.4	3.7
SSE	.3	.3										.7	3.0
S	1.1	.6	.1									1.8	3.3
SSW	1.4	.3										1.8	2.8
SW	1.7	.6	.4									2.7	3.6
WSW	2.4	2.6	.8									5.8	4.2
W	6.4	7.3	2.9	.6								17.2	4.6
WNW	2.6	4.8	2.9	.4								10.7	5.4
NN	1.6	3.2	1.2	.2								6.2	4.9
NNW	4.1	2.3	.7									7.1	3.4
VARIABLE		2.6	.2									2.9	8.7
CALM	////////////////////											22.0	////
TOTALS	37.0	27.3	12.2	1.4								100.0	3.2

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN FOURS (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	1.2	.6										1.8	2.6
NNE	.8											.8	2.0
NE	.2	.1										.3	3.0
ENE	2.0	.1										2.1	1.7
E	1.4	.9										2.3	2.8
ESE	.9		.1									.9	2.4
SE	.1	.1										.2	3.0
SSE	.3											.3	1.0
S	1.1	.1										1.2	2.5
SSW	.7	.3										1.0	2.9
SW	1.2	.3	.2									1.8	3.2
WSW	3.5	.8	.3									4.6	2.8
W	5.6	4.1	.6									10.2	3.4
WNW	1.1	1.1	.7									2.9	4.5
NW	1.2	1.2	.3									2.8	4.1
NNW	2.2	.2	.2									2.7	2.6
VARIABLE			.2	.4								.7	10.2
CALM	////////////////////											63.4	////
TOTALS	23.5	10.0	2.7	.4								100.0	1.2

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: 106473 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN 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	1.3	.7	.0									2.1	3.0
NNE	.7	.4										1.1	2.8
NE	.8	.4	.0									1.3	3.0
ENE	1.6	.5	.1									2.1	2.7
E	2.1	1.4	.1									3.5	3.1
ESE	1.7	.9	.1									2.7	3.1
SE	1.1	.6	.1									1.9	3.3
SSE	1.0	.4	.1	.0								1.5	3.1
S	1.4	.9	.2									2.5	3.5
SSW	1.1	.9	.2	.0								2.1	3.9
SW	1.2	.9	.3	.0								2.4	4.0
WSW	2.0	2.2	.7									5.0	4.3
W	4.3	6.3	2.9	.3								13.4	4.9
WNW	1.7	3.1	2.4	.5								7.7	5.9
NW	1.3	1.8	1.2	.2								4.5	5.2
NNW	2.2	1.4	.4	.0								4.1	3.6
VARIABLE		.1	4.9	.9	.0							5.9	8.9
CALM	////////////////////											35.8	////
TOTALS	25.6	23.0	13.6	1.9	.0							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GFR

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

WIND SPEED IN KNOTS

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4											.4	2.0
NNE	.2											.2	2.0
NE	.5											.5	1.4
ENE	.4											.4	2.5
E	.8	.1										.9	2.3
ESE	.2											.2	2.5
SE		.1										.1	4.0
SSE	.3	.1										.4	2.8
S	.1	.2										.3	3.3
SSW	.8	.6										1.4	3.0
SW	1.3	.9										2.2	3.3
WSW	2.9	2.2	.4									5.5	3.5
W	3.5	2.7	.3	.1								6.6	3.8
WNW	1.1	.4	.2	.3								2.1	4.8
NW	1.2	.4	.2									1.8	3.3
NNW	1.0	.2	.1									1.3	2.9
VARIABLE			.4									.4	8.0
CALM	////////////////////											75.1	////
TOTALS	14.7	8.0	1.7	.4								100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL 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	.3	.2		.1							.6	4.5
NNE												
NE	.2	.1									.3	3.3
ENE	.8										.8	1.9
E	1.4	.2									1.6	2.0
ESE	.5										.5	1.8
SE												
SSE	.2										.2	2.0
S	1.3	.1									1.4	2.1
SSW	.9	.3									1.2	2.9
SW	1.4	.9	.1								2.4	3.4
WSW	2.6	1.9	.1								4.7	3.4
W	3.6	2.6	.4	.3							6.9	3.8
WNW	.9	.8	.6								2.3	4.7
NW	1.5	.1	.1								1.7	2.4
NNW	1.5	.2									1.7	2.1
VARIABLE				.1							.1	12.0
CALM	////////////////////										73.5	////
TOTALS	17.1	7.5	1.4	.5							100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENVOHR AAF GFR

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

DIRECTION (DEGREE)	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										.5	3.4
NNE	.1	.1										.2	3.0
NE	.2	.1										.3	2.7
ENE	.6	.4										1.1	2.9
E	1.6											1.6	1.8
ESE	1.8	.3										2.2	2.3
SE	1.5	.2										1.7	2.4
SSE	2.1	.1										2.2	2.2
S	1.6	1.4	.1									3.1	3.3
SSW	1.2	.6	.3									2.2	3.4
SW	1.3	1.2										2.5	3.4
WSW	2.2	2.9	.6									5.7	4.1
W	3.8	5.5	2.2									11.5	4.6
WNW	1.7	1.5	1.0									4.2	4.6
NW	1.6	1.9	.8									4.3	4.4
NNW	1.9	.9										2.8	3.0
VARIABLE			.9									.9	7.9
CALM	////////////////////											52.9	////
TOTALS	23.7	17.5	5.8									100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DEGR-FT)	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	.9	.1								2.5	3.1
NNE	.8	.2	.2								1.2	3.5
NE	.3	.6									1.0	3.8
ENE	1.0	1.5	.1								2.6	3.9
E	2.3	1.1	.1								3.5	3.2
ESE	3.2	1.3	.1								4.7	2.8
SE	2.7	1.6									4.3	2.8
SSE	3.5	.5	.2								4.2	2.6
S	1.8	2.6	.2								4.7	4.0
SSW	1.3	2.1	.2								4.1	3.7
SW	1.4	2.3	.6								4.3	4.6
WSW	2.6	1.8	1.0								5.4	4.2
W	2.7	8.5	5.1	.3							16.7	5.6
WNW	3.7	4.3	2.4	.3							10.7	5.1
NW	1.9	3.4	1.4								6.7	4.7
NNW	1.9	1.7	.6								4.3	4.3
VARIABLE	.1	.1	4.8	.4							5.4	8.1
CALM	////////////////////										13.7	////
TOTALS	33.3	34.6	17.2	1.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

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

AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL FOURS (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	.8	1.2	.3	.1								2.4	4.7
NNE	1.0	.6										1.6	3.5
NE	1.0	.9										1.9	3.2
ENE	1.6	1.8	.1									3.6	3.6
E	1.9	.8	.6									3.4	3.8
ESE	1.8	1.4										3.2	3.5
SE	1.4	1.3	.1									2.8	3.8
SSE	1.7	1.0	.1									2.8	3.2
S	1.7	2.2	.5									4.4	4.3
SSW	1.5	1.1	.5									3.1	4.3
SW	.3	1.6	.4									2.4	5.5
WSW	1.7	4.8	1.4	.2								8.1	5.2
W	3.0	2.7	6.3	.6								17.6	6.1
WNW	2.7	4.3	5.8	.9								13.7	6.3
NW	1.9	3.4	2.9	.4								8.7	5.8
NNW	2.6	2.7	1.1	.2								6.6	4.4
VARIABLE		.2	8.4	.8								9.4	8.6
CALM	////////////////////											4.2	////
TOTALS	26.8	36.9	28.8	3.2								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (OF GUSTS)	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	.4	.1							2.5	4.9
NNE	1.7	1.0									2.7	3.2
NE	.5	1.0									1.5	3.9
ENE	1.4	1.2	.1								2.7	3.3
E	2.1	1.7	.1								3.9	3.5
ESE	1.9	1.1	.1								3.1	3.1
SE	2.2	.3	.3								2.8	3.0
ESE	1.5	1.6	.8								4.1	4.4
S	1.8	1.6	.2								3.9	3.8
SSW	1.3	1.2	.2								2.7	3.9
SW	1.5	1.6	.4								3.8	4.2
WSW	1.6	2.8	1.4	.2							6.1	5.3
W	3.9	7.7	5.7	.6							18.0	5.7
WNW	1.9	4.2	4.4	.9							11.5	6.5
NW	1.5	4.8	2.2	.1	.1						8.7	5.6
NNW	2.7	3.1	1.2	.1							7.1	4.7
VARIABLE			6.9	1.8							8.8	5.2
CALM	////////////////////										6.2	////
TOTALS	28.5	36.8	24.6	3.4	.1						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAF STAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 156870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL 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	GE 56		
N	2.7	.8	.3									3.8	3.0
NNE	1.5	.7	.2									2.4	3.2
NE	1.2	.5										1.7	2.4
NNE	2.0	.7										2.6	2.4
E	2.7	.5	.1									3.4	2.6
ESE	2.2	.3										2.5	2.4
SE	.9	.7										1.5	3.1
SSE	1.1	.1										1.2	2.1
S	1.7	1.1										2.8	3.3
SSW	1.2	.5	.2									2.0	2.3
SW	1.7	.5										2.3	2.9
WSW	2.7	2.3	.9									5.9	4.2
W	4.7	6.5	3.0	.1								14.3	4.8
WNW	2.7	5.4	2.7									10.8	5.1
NW	3.3	4.4	.9	.1								8.7	4.2
NNW	2.7	1.8	.5									5.1	4.0
VARIABLE		.1	1.5	.4								2.1	4.7
CALM	////////////////////											27.0	////
TOTALS	34.7	27.0	10.4	.7								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 947

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.8	.2	.1									1.1	3.2
NNE	.3											.3	2.0
NE	.5											.5	2.0
ENE	1.4											1.4	1.6
E	1.4											1.4	1.5
ESE	.5											.5	1.4
SE	.2											.2	2.0
SSE	.3	.2										.5	2.6
S	1.0	.2										1.3	3.0
SSW	.7	.1										.8	2.7
SW	1.1	.4	.1									1.6	3.1
WSW	2.1	2.0										4.0	3.5
W	4.7	3.0	.4	.2								8.6	3.6
WNW	1.0	1.2	.7									2.8	5.6
NW	1.5	.3	.4									2.3	3.4
NNW	1.3	.3	.4									2.6	3.4
VARIABLE			.4	.1								.5	9.0
CALM	////////////////////////////////////											69.4	////
TOTALS	19.5	8.1	2.6	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 942

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106873 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL 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	.9	.6	.2	.0							1.7	3.7
NNE	.7	.3	.1								1.1	3.2
NE	.6	.4									1.0	3.0
ENE	1.2	.7	.0								1.9	3.0
E	1.8	.6	.1								2.4	2.9
ESE	1.5	.6	.0								2.1	2.8
SE	1.1	.5	.1								1.7	3.0
SSE	1.3	.5	.1								2.0	3.1
S	1.4	1.2	.1								2.7	3.6
SSW	1.2	.8	.2								2.2	3.6
SW	1.3	1.2	.2								2.7	3.9
WSW	2.3	2.6	.7	.1							5.7	4.3
W	3.7	5.5	2.9	.3							12.5	5.1
WNW	2.0	2.8	2.2	.3							7.3	5.6
NW	1.9	2.3	1.1	.1	.0						5.4	4.7
NNW	2.0	1.4	.5	.0							4.0	4.0
VARIABLE	.3	.1	2.9	.5							3.5	8.7
CALM	////////////////////										40.3	////
TOTALS	24.8	22.1	11.6	1.3	.0						100.0	2.7

TOTAL NUMBER OF OBSERVATIONS: 7388

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.1										.2	3.0
NNE	.1											.1	1.0
NE	.2		.1									.3	3.7
ENE	.9	.2										1.1	2.4
E	.6	.6	.1									1.4	3.6
ESE	.1	.1										.2	3.0
SE	.1											.1	2.0
SSE	.2											.2	2.5
S	.4											.4	1.5
SSW	.1	.2										.3	3.7
SW	.3	.3										.6	2.8
WSW	1.5	.9	.3									2.7	3.4
W	3.1	3.9	1.3	.1								8.4	4.4
WNW	2.5	1.6	.4	.1								4.6	4.0
NW	1.1	.6	.1	.1								1.9	3.8
NNW	.7	.3	.3									1.5	4.2
VARIABLE													
CALM	////////////////////											75.8	////
TOTALS	12.3	8.9	2.7	.3								100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF/AFM
AFM WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG 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	.1	.1									.4	4.0
NNE	.2	.1										.3	3.0
NE	.4											.4	2.0
ENE	.9	.3										1.2	2.4
E	.8	.3	.1									1.2	3.6
ESE	.8											.8	1.6
SE	.3											.3	1.7
SSE	.8	.1										.9	1.9
S		.1										.1	5.0
SSW	.2	.1										.3	2.3
SW	.9	.1										1.0	2.0
WSW	1.3	.9										2.2	3.0
W	5.1	1.6	1.0									7.6	3.4
WNW	1.8	1.4	.9	.1								4.2	4.6
NW	1.4	.5	.3									2.3	3.6
NNW	.4	.1										.5	2.6
VARIABLE			.3	.1								.4	0.8
CALM	////////////////////											75.9	////
TOTALS	15.4	5.8	2.7	.2								100.0	.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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG 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												
NNE	.5										.5	1.8
NE	.2	.2									.4	3.3
ENE	.6	.2									.9	2.4
E	1.9	.6	.1								2.7	2.9
ESE	2.4	.1									2.5	1.4
SE	1.7										1.7	1.9
SSE	.9	.5	.1								1.5	1.1
S	.8	.2									1.0	1.1
SSW	1.0		.1								1.1	1.1
SW	1.0	.6									1.6	1.1
WSW	3.0	1.4	.4								4.8	1.1
W	4.4	3.0	1.4								8.8	1.1
WNW	1.7	1.9	1.5								5.1	1.1
NW	1.5	1.1	.9	.2							3.7	1.1
NNW	.5		.2								.7	1.1
VARIABLE			.4								.4	
CALM	////////////////////											
TOTALS	22.2	10.0	5.2	.2								

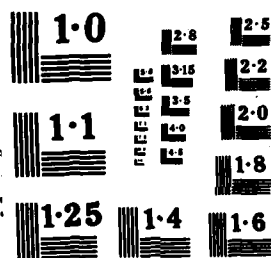
TOTAL NUMBER OF OBSERVATIONS: 934

AD-A186 616

GRAFENWOHR AAF GERMANY REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A. ~~OCT~~ 87
UNCLASSIFIED USAFETAC/DS-87/063 17C 4/2

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENBOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG 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	.8	.1	.1								1.0	2.9
NNE	.9										.4	1.8
NE	.6										.6	2.3
ENE	1.4	1.0	.1								2.5	3.3
E	3.0	2.6	.2								5.8	3.5
ESE	4.3	2.3	.1								6.7	3.1
SE	3.2	1.4	.1								4.7	2.8
SSE	3.8	1.4	.3								5.5	3.2
S	3.2	1.5	.1								4.8	2.9
SSW	2.5	1.6	.1								4.2	3.2
SW	1.6	1.3	.3								3.2	3.9
WSW	2.4	2.4	1.2								5.9	4.5
W	3.9	6.2	3.8	.8							14.6	5.3
WNW	3.9	3.2	2.6	.2	.1						10.0	5.1
NW	2.0	1.8	1.5	.3							5.7	5.4
NNW	1.5	1.3	.2								3.0	3.2
VARIABLE		.1	3.0	.4							3.5	8.6
CALM	////////////////////////////////////										17.7	////
TOTALS	38.5	28.2	13.8	1.7	.1						100.0	3.5

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: 106670 STATION NAME: GRAFENWOHR AAF GFR

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	.9	.4	.2									1.5	3.8
NNE	1.3	.2										1.5	2.9
NE	.8	.2										1.0	2.7
ENE	1.2	1.0	.1									2.3	3.5
E	2.0	2.3	.2									4.5	3.7
ESE	2.3	2.3	.1									4.6	3.7
SE	2.5	2.7	.1									5.3	3.5
SSE	3.9	.9	.4									5.2	3.1
S	2.6	2.6	.9									6.0	4.0
SSW	1.9	2.8	.1									4.7	4.0
SW	1.1	1.7	.5									3.3	4.6
WSW	2.0	3.9	2.0	.1								8.1	5.1
W	4.5	6.9	6.1	1.3								18.8	5.9
WNW	2.5	4.9	2.7	.6								10.8	5.7
NW	1.4	3.2	1.5	.4								6.6	5.5
NNW	1.8	2.3	.2									4.3	4.0
VARIABLE		.4	6.3	.8	.2	.1						7.8	8.8
CALM	////////////////////											3.8	////
TOTALS	32.5	38.6	21.6	3.2	.2	.1						100.0	4.8

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	2.8	1.3	.1								4.2	3.0
NNE	1.1	.2									1.3	2.3
NE	.6	.9									1.5	3.8
ENE	1.4	1.2	.2								2.8	3.8
E	2.7	1.7	.3								4.7	3.4
ESE	2.9	1.4	.1								4.0	3.5
SE	1.5	1.9	.2								3.7	4.0
SSE	1.7	.5	.1								2.4	2.9
S	2.6	2.2									4.7	3.6
SSW	2.1	2.4									4.6	3.4
SW	1.0	1.4	.7								2.9	4.4
WSW	3.5	3.8	.9	.1							8.3	4.1
W	4.1	8.6	4.1	.4							17.2	5.3
WNW	2.4	5.1	4.4	.4							12.3	6.1
NW	1.5	4.2	1.3	.3							7.4	5.3
NNW	2.6	1.9	.8	.1							5.4	4.2
VARIABLE		.1	5.5	.9	.1						6.6	4.0
CALM	////////////////////										6.1	////
TOTALS	34.2	39.7	18.3	2.3	.1						100.0	4.5

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: 106870 STATION NAME: GRAFENWCHH AAF GFR

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	1.7	.4										2.2	2.2
NNE	1.2											1.2	1.7
NE	1.3	.3										1.6	2.0
ENE	1.1	.9										1.9	3.2
E	3.5	1.0										4.5	2.5
ESE	1.4	.6										2.0	2.9
SE	1.7	.9										1.4	2.6
SSE	.5	.3										.9	3.0
S	1.3	.3										1.6	2.5
SSW	.6	.4										1.1	2.9
SW	1.9	.3	.1									2.4	2.7
WSW	3.5	1.7	.1									5.4	3.0
W	6.1	5.7	1.7	.7								14.0	4.2
WNW	2.3	3.5	2.2	.2								8.2	5.1
NW	2.2	2.3	1.0	.1								5.5	4.5
NNW	3.0	1.2	.2									4.4	3.0
VARIABLE			1.1	.3								1.4	9.2
CALM	////////////////////											40.4	////
TOTALS	32.9	19.5	6.1	.9								100.0	2.2

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: 106870 STATION NAME: GRAFENWOHR AAF GFH

PERIOD OF RECORD: 77-86
MONTH: AUG 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	.4	.7										.8	2.9
NNE	.5											.5	1.4
NE	.5											.5	2.2
ENE	.8	.4										1.2	2.6
E	1.0	.1										1.1	2.1
ESE	.6	.3										1.0	2.9
SE	.3	.1										.4	2.3
SSE	.3											.3	1.7
S	.5	.1										.6	1.8
SSW		.1										.1	4.0
SW	.1	.2										.5	3.6
WSW	1.5	1.1	.1									2.7	3.5
W	5.3	3.1	.6									9.2	3.5
WNW	2.3	1.7	.3									4.3	3.5
NW	1.9	.3	.1									2.4	2.5
NNW	1.0	.5										1.5	2.9
VARIABLE			.8									.8	8.0
CALM	////////////////////////////////////											72.0	////
TOTALS	17.1	8.7	1.9									100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
 SAFETAC
 AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 176870 STATION NAME: GRAFENWOHR AAF GFH

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	.9	.3	.1									1.3	3.0
NNE	.7	.1										.7	2.1
NE	.6	.2	.0									.8	2.9
ENE	1.0	.6	.1									1.7	3.2
E	1.9	1.2	.1									3.2	3.2
ESE	1.8	.9	.0									2.7	3.1
SE	1.1	.8	.1									2.2	3.1
SSE	1.5	.5	.1									2.1	3.0
S	1.4	.9	.1									2.4	3.3
SSW	1.1	1.0	.0									2.1	3.4
SW	1.0	.8	.2									1.9	3.7
WSW	2.4	2.0	.6	.1								5.0	4.0
W	4.6	4.9	2.5	.3								12.3	4.8
WNW	2.4	2.9	1.9	.2	.0							7.4	5.1
NW	1.6	1.8	.8	.2								4.4	4.8
NNW	1.5	1.0	.2	.0								2.7	3.6
VARIABLE	.1	2.2	.3	.0	.0	.0						2.6	8.9
CALM	////////////////////											44.3	////
TOTALS	25.6	19.8	9.3	1.1	.1	.0						100.0	2.4

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(1ST): 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	2.3
NNE	.2											.2	2.0
NE	.4	.1										.6	2.8
ENE	.7	.1										.9	2.6
E	1.5	.2										1.6	2.2
ESE	.6	.1										.7	1.8
SE	.9											.9	2.0
SSE	.2	.2										.3	3.0
S	.6	.9										1.0	2.9
SSW	.6	.6										1.1	3.2
SW	.9	.7										1.6	3.4
WSW	1.9	1.7	.2									3.9	3.8
W	3.9	5.1	1.8	.1								11.0	4.4
WNW	1.0	1.0	.9	.1								2.6	4.6
NW	1.2	.6	.2									2.0	3.5
NNW	1.6	.8	.1									2.5	3.0
VARIABLE			.4	.7								.7	9.0
CALM	////////////////////											68.9	////
TOTALS	16.5	11.4	3.2	.4								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.2	.2									.4	3.8
NNE	.3										.3	1.3
NE	.4										.4	1.3
ENE	.9										.9	2.0
E	1.3	.2									1.6	2.1
ESE	.7										.7	1.5
SE	.6										.6	1.2
SSE	.8										.8	2.4
S	.6	.3									.9	2.8
SSW	.4										.4	2.0
SW	.6	.7									1.2	3.8
WSW	1.2	1.9	.3								3.5	4.5
W	4.1	3.7	1.2	.1							9.2	4.1
WNW	1.3	1.7	.8	.6							4.4	5.6
NW	.9	.8	.2								1.9	3.8
NNW	1.7	.2									1.9	2.1
VARIABLE			.8	.1							.9	9.5
CALM	////////////////////										70.0	////
TOTALS	16.1	9.7	3.4	.8							100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 136870 STATION NAME: GRAFENVOHR AAF GFR

PERIOD OF RECORD: 77-86
 MONTH: SEP 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	.8	.3										1.1	2.7
NNE	.2											.2	1.0
NE	.3											.3	2.0
ENE	1.0	.4										1.5	2.6
E	1.8	.2										2.0	2.1
ESE	1.9											1.9	1.7
SE	.7											.7	1.7
SSE	1.1	.1										1.2	2.1
S	1.2	.8										2.0	3.2
SSW	.9	.7										1.6	3.3
SW	1.0	.8	.1									1.9	3.9
WSW	2.2	2.0	.8									5.0	4.0
W	3.6	5.7	2.1									11.4	4.6
WNW	1.5	1.3	.6	.2								3.6	4.5
NW	1.3	.7	.3	.2								2.6	4.7
NNW	1.5	.2	.1									1.8	2.6
VARIABLE			.4	.3								1.1	9.8
CALM	////////////////////											60.1	////
TOTALS	21.0	13.3	4.8	.8								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 1C6870 STATION NAME: GRAFENVOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(1ST): 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	.7	.8										1.5	3.4
NNE	.4	.1										.6	2.4
NE	1.0	.4										1.5	2.6
ENE	1.8	1.3										3.1	3.0
E	2.5	1.6	.3									4.4	3.7
ESE	3.2	1.9	.4									5.6	3.4
SE	4.1	1.0	.1									5.3	2.6
SSE	2.7	1.1	.1									3.9	3.0
S	1.9	2.2	.4									4.6	4.1
SSW	1.6	2.1	.2									3.9	3.8
SW	.6	1.3	.2									2.1	4.6
WSW	1.2	3.9	1.9									7.0	5.2
W	2.0	6.3	3.8	1.1								13.2	6.1
WNW	1.5	2.3	2.9	.1								6.8	5.9
NW	.8	1.0	.7	.1								2.6	5.2
NNW	1.3	1.1	.3									2.8	3.9
VARIABLE		.1	4.8	.9								5.8	9.1
CALM	////////////////////											25.4	////
TOTALS	27.3	28.7	16.3	2.2								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP 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	1.7	1.0									2.7	3.4
NNE	1.2	.2									1.5	2.8
NE	1.2	.9									1.7	3.1
ENE	1.7	1.5									3.1	3.3
E	3.6	2.2	.1								5.9	3.6
ESE	3.0	1.3	.2								4.6	3.2
SE	2.1	2.0									4.1	3.5
SSE	1.6	1.2	.1								2.9	3.4
S	3.0	4.1	.3								7.5	4.0
SSW	2.2	2.1	1.0								5.4	4.3
SW	1.9	2.2	1.3								5.5	4.7
WSW	2.0	2.3	1.9	.1							6.4	5.4
W	2.1	8.5	6.2	1.1							17.9	6.4
WNW	1.5	3.8	2.6	.7							8.5	6.1
NW	.7	1.2	2.1	.2							4.3	6.7
NNW	1.3	1.0	.4								2.8	3.9
VARIABLE		.6	7.7	2.3							10.6	9.0
CALM	////////////////////										4.7	////
TOTALS	30.9	35.9	24.0	4.5							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
LAFAYETTE
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(EST): 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	.7	.1									2.0	3.2
NNE	1.7											1.7	1.8
NE	.7	.7										1.3	3.3
ENE	2.1	1.0										3.1	2.9
E	3.4	1.9										5.3	3.1
ESE	2.0	1.2										3.2	2.8
SE	1.9	1.3	.1									3.2	3.5
SSE	2.0	1.0	.1									3.6	3.3
S	2.0	2.3	.2									4.6	3.9
SSW	1.6	2.1	.4									4.1	4.2
SW	2.5	2.2	.2									4.9	3.8
WSW	2.9	2.8	1.2									6.9	4.6
W	3.2	10.4	6.4	.3								20.4	5.7
WNW	1.3	5.3	2.6	.6								9.7	5.8
NW	.8	3.2	1.7	.1								5.8	5.7
NNW	1.9	1.7	.2	.1								3.6	3.7
VARIABLE		.1	5.3	1.3	.1							6.8	9.1
CALM	////////////////////											9.6	////
TOTALS	31.1	38.1	18.6	2.5	.1							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(1ST): 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	.7	.2	.1									1.0	3.2
NNE	.6											.6	1.6
NE	1.0	.2										1.2	2.0
ENE	1.6	.1										1.7	2.0
E	2.1	.9										3.0	2.4
ESE	1.0											1.0	2.1
SE	.7	.1										.8	2.3
SSE	.6	.2										.8	3.0
S	1.2	.8										2.0	3.1
SSW	.6	.6										1.1	3.3
SW	1.6	.7										2.2	3.3
WSW	2.7	1.6	.4	.1								5.1	3.8
W	7.0	6.0	1.8									14.7	3.8
WNW	1.5	2.0	.7	.2								4.4	5.1
NW	1.9	1.0	.9	.1								3.9	4.6
NNW	1.5	1.3										2.8	3.4
VARIABLE			1.1	.1								1.2	6.0
CALM	////////////////////											52.4	////
TOTALS	26.3	15.7	5.1	.6								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106873 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP 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	.2	.1										.3	2.0
NNE	.3											.3	1.0
NE	.6											.6	1.8
ENE	1.5											1.5	1.8
E	2.4	.3										2.7	2.2
ESE	.3											.3	1.3
SE	.1	.1										.2	3.5
SSE	.2	.1										.3	3.0
S	.6	.4										1.0	3.4
SSW	1.5	.6										2.0	2.9
SW	.8	.7										1.5	3.2
WSW	1.9	2.0	.3									4.3	3.7
W	3.4	4.8	1.3									9.6	4.3
WNW	1.0	2.0	.6									3.6	4.5
NW	1.3	1.3	.1									2.8	3.6
NNW	1.2	.2										2.1	2.4
VARIABLE			.8	.7								1.0	9.1
CALM	////////////////////											65.8	////
TOTALS	18.0	12.4	3.1	.2								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 136870 STATION NAME: GRAFENWOHR AAF GFR

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	.7	.4	.0									1.2	3.2
NNE	.6	.7										.7	2.0
NE	.7	.2										1.0	2.6
ENE	1.4	.6										2.0	2.7
E	2.3	.9	.1									3.3	2.9
ESE	1.6	.6	.1									2.3	2.8
SE	1.3	.6	.0									1.9	2.9
SSE	1.1	.5	.0									1.7	3.1
S	1.4	1.4	.1									3.0	3.7
SSW	1.2	1.1	.2									2.5	3.8
SW	1.2	1.2	.2									2.6	4.0
WSW	2.0	2.3	.9	.0								5.2	4.5
W	3.7	6.3	3.1	.3								13.4	5.1
WNW	1.3	2.4	1.4	.3								5.4	5.5
NW	1.1	1.2	.8	.1								3.2	5.0
NNW	1.6	.8	.2	.0								2.5	3.2
VARIABLE		.1	2.7	.7	.0							3.5	9.1
CALM	////////////////////											44.6	////
TOTALS	23.3	20.7	9.8	1.5	.0							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 7144

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(151): 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	.1										.3	3.0
NNE	.1											.3	1.7
NE	.1											.3	2.3
ENE	1.9	.8	.1									2.3	3.0
E	2.5	2.4	.3									5.2	3.8
ESE	1.9	.1										2.0	2.0
SE	1.2											1.2	2.4
SSE	1.1	.5	.1	.2								1.9	4.1
S	1.3	.3	.1									1.7	3.3
SSW	1.1	.5	.3									1.9	3.6
SW	1.6	1.0										2.6	3.2
WSW	2.3	1.9	.8									5.0	4.2
W	1.4	5.0	1.6	.1								8.1	5.0
WNW	1.0	.4	.5									1.9	4.1
NW	.5	.5		.1								1.2	3.6
NNW	.8	.4										1.2	3.0
VARIABLE		.1	.8	.2								1.1	4.6
CALM	////////////////////											61.4	////
TOTALS	18.8	14.1	4.6	.6								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT 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											.1	1.0
NNE	.2	.2										.4	3.1
NE	.8	.1										.9	2.5
ENE	1.7	1.1										2.8	3.0
E	4.4	1.1	.1									5.6	2.8
ESE	3.5	.2										3.7	1.8
SE	2.4	.4										2.8	2.3
SSE	1.0	.4										1.4	2.6
S	1.0	.8	.1									1.9	3.6
SSW	1.6	.4	.1									2.2	3.1
SW	1.5	.6	.1									2.6	3.4
WSW	1.3	2.6	.8									4.7	4.8
W	2.5	4.2	1.4	.2								8.3	4.9
WNW	.9	.6	.9									1.9	4.4
NW	1.0	.1	.1									1.2	2.7
NNW	.9	.5										1.4	2.8
VARIABLE			1.2	.5								1.7	9.6
CALM	////////////////////											56.3	////
TOTALS	24.7	13.4	4.7	.8								103.0	1.6

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.9										.9	2.0
NNE	.5										.5	1.2
NE	.3	.2									.5	3.2
ENE	2.3	.3									2.6	2.3
E	4.0	1.9	.3								6.2	3.1
ESE	3.7	.5									4.2	2.0
SE	2.5	.5									3.0	2.4
SSE	1.7	.3									2.0	2.6
S	1.9	1.8									3.8	3.1
SSW	1.4	.8	.4								2.6	4.0
SW	1.1	.8	.2								2.0	3.9
WSW	3.1	1.8	.5								5.5	3.7
W	2.6	3.7	1.7	.1							8.1	5.0
WNW	1.1	.6	.4		.1						2.5	4.6
NW	.8	.3	.1								1.2	3.3
NNW	.4	.2	.1								.8	4.0
VARIABLE			1.4	.4							1.8	8.8
CALM	////////////////////										51.8	////
TOTALS	24.4	13.4	5.3	.5	.1						100.0	1.8

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 FOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: GRAFFENHOFER AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT 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	.8	.2										1.0	2.7
NNE		.1										.1	4.0
NE	.6	.4	.1									1.2	3.5
ENE	1.6	.9	.2									2.7	3.4
E	4.7	4.1	.3		.1							9.2	3.8
ESE	6.3	1.8	.1									8.3	2.5
SE	3.1	1.2	.1									4.4	2.9
SSE	2.7	2.5	.2									4.7	3.7
S	2.9	2.6	.6									6.1	3.8
SSW	1.4	1.3	.2									2.9	3.6
SW	1.3	1.3	.4									3.0	4.0
WSW	1.7	2.9	.8									5.4	4.4
W	2.5	4.6	3.1	.3								10.5	5.6
WNW	1.3	1.2	1.1		.2							3.8	5.6
NW	1.2	1.2	.4									2.8	4.2
NNW	1.1	.6	.1									1.8	3.5
VARIABLE			6.6	1.1								7.6	6.9
CALM	////////////////////											24.4	////
TOTALS	32.6	26.9	14.4	1.4	.3							100.0	3.4

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 POLARLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFH

PERIOD OF RECORD: 77-86
MONTH: OCT 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	.6	.8										1.1	3.2
NNE	.3	.2										.5	2.8
NE	.3	.4	.1									.9	4.5
ENE	1.2	1.4	.2									2.8	3.9
E	1.7	2.6	.6									4.9	4.7
ESE	3.3	3.2	.2									6.6	3.6
SE	3.7	4.4	.3									8.4	3.8
SSE	3.1	3.4	.3									6.9	3.8
S	3.2	4.5	.6									8.2	4.1
SSW	1.7	1.9	.4									4.1	3.9
SW	1.9	1.6	1.0									4.5	4.4
WSW	1.9	2.3	1.5									5.7	4.9
W	3.0	4.9	2.7	.3								11.0	5.2
WNW	2.0	2.7	1.4	.2								6.3	5.0
NW	1.2	1.8	1.3	.1								4.4	5.4
NNW	.4	1.8	.1									2.4	3.9
VARIABLE		.2	9.0	2.2	.5							12.0	6.3
CALM	////////////////////											8.7	////
TOTALS	30.0	38.1	19.9	2.8	.5							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

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

STATION NUMBER: 106873 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	PLAN 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	.2										1.9	2.4
NNE	.4	.2										.6	2.7
NE	.4	.2										.6	2.8
ENE	1.9	.6	.1									2.7	3.0
E	2.4	3.2	.4									7.1	3.6
ESE	4.3	3.1	.1									7.5	3.2
SE	4.3	2.0	.1									6.5	3.1
SSE	2.5	2.0	.1									4.6	3.2
S	2.9	2.4	.4									5.7	3.7
SSW	1.4	1.4	.6									3.4	4.1
SW	1.6	1.1	.2									2.9	3.7
WSW	3.2	3.7	.3									7.2	3.8
W	3.0	2.7	1.9	.2								10.9	5.0
WNW	2.4	3.0	1.8	.1								7.7	4.8
NW	1.3	1.4	.3	.1								3.7	3.9
NNW	1.0	.5	.1									1.6	3.1
VARIABLE			6.7	.9		.1						7.6	6.2
CALC	////////////////////////////////////											17.6	////
TOTALS	36.4	31.9	17.3	1.7		.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHN AAF GFR

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

DIRECTION (DEGREES)	1-4	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL	MEAN WIND
N	1.4	.2	.1									1.7	2.8
NNE	.2											.2	1.5
NE	1.0	.1										1.1	2.1
ENE	1.7	.5	.1									2.4	2.6
E	5.6	1.3	.2									9.1	3.2
ESE	2.2	.2	.2									2.6	2.5
SE	.9	.5										1.4	3.2
SSE	1.1	.3										1.4	2.5
S	1.0	.5										1.5	3.0
SSW	.8	.6	.2									1.6	4.1
SW	1.0	.9	.2									1.6	4.0
WSW	2.6	1.9	.4									4.9	3.6
W	3.1	1.8	1.7	.2								9.0	4.5
WNW	1.0	1.5	.8									3.2	4.8
WW	.8	.9	.1	.1								1.9	4.0
NNW	.8	.1										.9	2.4
VARIABLE			1.5	.4								2.3	9.5
CALM	////////////////////											53.7	////
TOTALS	25.1	14.6	5.6	1.1								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOEAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT 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	.2	.4										.6	4.2
NNE	.6											.6	2.0
NE	.6	.1										.8	2.6
ENE	1.1	1.0										2.0	3.2
E	3.4	1.8	.6									5.9	3.5
ESE	1.4	.1	.1									1.6	2.3
SE	1.9	.2										2.0	2.1
SSE	1.0	.4	.1									1.5	3.0
S	1.2	.3	.1									1.6	3.2
SSW	1.0	.1	.3									1.4	4.2
SW	1.4	.6	.1									2.2	3.4
WSW	2.0	1.2	.3									3.5	3.8
W	2.3	4.5	1.3	.3	.1	.1						8.6	5.4
WNW	1.1	1.6	.5									3.2	4.5
NW	.6	.2										.9	2.4
NNW	.5	.2										.8	2.9
VARIABLE			1.5	.3								1.8	4.2
CALM	////////////////////											60.9	////
TOTALS	20.3	12.9	5.1	.6	.1	.1						100.0	1.6

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 POLARLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.7	.2	.0									1.0	2.7
NNE	.3	.1										.4	2.3
NE	.6	.2	.0									.9	3.0
ENE	1.6	.8	.1									2.5	3.1
E	3.7	2.6	.4		.0							6.7	3.5
ESE	3.3	1.2	.1									4.6	2.7
SE	2.5	1.2	.1									3.7	3.0
SSE	1.7	1.7	.1	.0								3.1	3.4
S	1.9	1.7	.3									3.8	3.7
SSW	1.3	.9	.3									2.5	3.8
SW	1.4	.9	.3									2.7	3.8
WSW	2.3	2.3	.7									5.2	4.1
W	2.6	4.5	1.9	.2	.0	.7						9.3	5.1
WNW	1.4	1.5	.9	.0	.0							3.8	4.8
WW	1.0	.9	.3	.1								2.1	4.1
WNW	.8	.6	.1									1.4	3.3
VARIABLE		.1	3.6	.8	.1	.0						4.5	9.2
CALM	////////////////////											41.9	////
TOTALS	27.1	20.6	9.1	1.1	.1	.7						100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 7459

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: NOV 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	.1									.8	3.1
NNE	.2											.2	1.0
NE	.3	.1										.5	2.8
ENE	2.0	.6										2.6	2.9
E	5.1	2.5	.2									7.8	3.1
ESE	2.3	.9										3.2	2.8
SE	2.7	1.2										3.9	2.8
SSE	1.1	1.1	.1									2.4	3.4
S	2.4	1.1	.1									3.6	3.1
SSW	1.0	1.0										2.0	3.5
SW	1.2	1.1	.1									2.5	3.5
WSW	2.4	1.5	1.6	.1								5.6	4.9
W	2.6	3.6	2.9	.6								9.7	5.6
WNW	1.4	1.0	.5	.2								3.0	4.8
NW	.6	.8	.7	.1								2.1	5.3
NNW	1.1	.5	.1									1.7	3.5
VARIABLE			2.7	1.2								4.0	10.1
CALM	////////////////////											45.1	////
TOTALS	26.3	17.2	9.1	2.3								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 446

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.7	.2									.9	2.9
NNE		.1									.1	6.0
NE	.3	.3									.7	3.2
NNE	1.2	1.8	.1								3.2	3.7
E	5.1	2.8	.1								8.0	3.0
ESE	3.5	1.4									4.9	2.5
SE	1.7	.6									2.3	2.9
SSE	2.2	.6									2.6	2.4
S	2.3	1.6									3.7	3.2
SSW	1.1	1.4	.2								2.7	3.6
SW	1.1	1.1	.3								2.6	3.8
WSW	1.7	1.7	1.0	.3							4.7	5.3
W	3.6	3.8	2.0	.3							9.8	4.9
WNW	1.1	1.4	.6	.2							3.3	5.1
NW	.6	1.2	.5	.1							2.4	4.9
NNW	.5	.3									.8	3.1
VARIABLE			3.6	.7	.1		.1				4.4	10.2
CALM	////////////////////////////////////										42.9	////
TOTALS	26.4	20.3	6.4	1.7	.1		.1				100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 965

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.2	.2										.5	3.5
NNE	.3											.3	2.3
NE	.2	.2										.5	3.5
ENE	1.0	1.6	.1									2.7	4.1
E	3.9	2.8										6.6	3.2
ESE	4.2	.9										5.1	2.3
SE	1.8	.9										2.7	2.8
SSE	2.2	.8										2.8	2.8
S	2.7	1.2	.1									4.1	3.3
SSW	2.1	.9										3.0	2.7
SW	2.3	2.1										5.0	3.1
WSW	2.7	1.2	.7	.3								5.0	4.2
W	3.4	2.9	2.0	.9								9.2	5.4
WNW	1.9	1.7	.5	.2	.1							4.4	4.7
NW	.9	1.4	.3	.3								2.9	5.2
NNW	1.0	.2										1.2	2.6
VARIABLE		.1	3.4	.8	.3	.2						4.8	10.6
CALM	////////////////////											39.2	////
TOTALS	31.2	19.3	7.1	2.6	.5	.2						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DEGR=ES)	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	.6	.1									1.5	3.5
NNE	.1	.1										.2	3.0
NE	.9	.5										1.4	2.8
ENE	1.0	1.0	.1									2.1	3.8
E	4.4	2.7	.5									7.5	3.3
ESE	5.4	1.1										6.5	2.4
SE	3.3	1.6										4.8	2.8
SSE	1.9	1.5	.1									3.5	3.3
S	3.9	2.1	.6									6.6	3.4
SSW	2.9	1.7	.3									5.0	3.4
SW	1.5	1.8	.5									3.7	4.2
WSW	2.3	3.4	1.2	.5								7.9	4.7
W	2.4	3.9	2.9	1.1								10.4	6.0
WNW	1.4	2.3	.6		.1							4.3	5.0
NW	.9	1.7	.6	.1								3.3	4.9
NNW	.8	.7		.1								1.6	3.9
VARIABLE			5.3	1.2	.3		.1					7.0	9.9
CALM	////////////////////											22.7	////
TOTALS	34.3	26.6	12.7	3.0	.5		.1					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	.7	.2								1.1	5.7
NNE	.6	.2	.1								.9	2.9
NE	.7	.6	.2								1.5	4.2
ENE	.7	.8	.3								1.8	4.8
E	1.7	2.7	.3								4.7	4.1
ESE	4.4	2.5	.1								7.0	3.1
SE	2.8	1.9	.1								4.9	3.3
SSE	3.6	1.6	.3								5.7	3.2
S	3.7	3.8	.5								8.0	3.6
SSW	1.8	3.4	.5								5.6	4.3
SW	1.6	1.1	.3								3.0	3.9
WSW	1.8	3.9	1.5	.5							7.7	5.4
W	2.5	7.0	3.0	1.5							14.0	6.1
WNW	1.2	2.5	1.1	.2							5.2	5.7
NW	1.2	2.0	1.2	.1							4.6	5.4
NNW	2.0	1.4	.5								3.9	3.7
VARIABLE		.2	6.7	1.6	.3	.1					8.9	9.7
CALM	////////////////////										11.5	////
TOTALS	30.6	36.5	17.0	3.9	.3	.1					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 136873 STATION NAME: GRAFENWOHR AFB GFR

PERIOD OF RECORD: 77-86
MONTH: NOV 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	.9	.6										1.5	3.0
NNE	.6	.2										.8	3.1
NE	.7	.2										.9	2.5
ENE	.5	.9	.1									1.5	4.2
E	3.2	4.7	.3									8.2	3.9
ESE	3.0	1.2	.1									4.4	2.8
SE	3.6	1.5										5.1	2.7
SSE	2.8	1.8	.2									4.8	3.3
S	3.8	2.0	.2									6.1	3.3
SSW	2.4	1.7										4.1	3.3
SW	2.5	.9	.2									3.6	3.2
WSW	2.9	3.3	.8	.2								7.1	4.6
W	5.1	6.6	2.1	.3								14.2	4.7
WNW	1.5	1.2	1.0	.2								3.9	5.6
NW	1.7	1.7	1.1	.1								4.6	4.9
NNW	1.9	.6	.1									2.6	3.1
VARIABLE			4.5	.6	.2							5.3	8.9
CALM	////////////////////											21.4	////
TOTALS	36.3	29.2	10.9	1.5	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(EST): 1400-2000

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		
N	.9	.3									1.2	2.7
NNE												
NE	.3	.3									.7	3.2
ENE	.9	.6	.1								1.6	3.6
E	4.3	3.7	.7								8.7	3.7
ESE	3.8	.3									4.2	2.0
SE	2.5	.8	.1								3.4	2.8
SSE	1.9	1.1									3.0	2.8
S	3.4	1.5	.2								5.1	3.0
SSW	1.5	.3	.1								1.9	2.9
SW	2.0	1.6									3.6	3.1
WSW	1.7	2.3	.8	.2							5.0	5.0
W	2.3	5.2	2.4	.3							10.1	5.4
WNW	1.1	1.2	.2								2.6	4.1
NW	1.1	1.1	.3	.2							2.8	4.6
NNW	1.5	.5	.3	.1							2.4	4.0
VARIABLE		.1	3.2	.5	.2						3.9	9.4
CALN	////////////////////										39.9	////
TOTALS	29.2	20.9	6.4	1.4	.2						100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106470 STATION NAME: GRAFENWOHR AAF GFR

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	.7	.5	.1									1.2	3.6
NNE	.1	.1										.2	4.0
NL	.1											.1	2.0
NNE	1.6	.7	.1									2.4	3.3
E	5.1	3.6	.6									9.2	3.5
ESE	3.2	.6										3.7	2.3
SE	1.5	.7										1.8	2.6
SSE	1.9	.9										2.8	2.6
S	2.5	1.4										3.9	3.0
SSW	1.7	.9	.1									2.7	3.4
SW	1.1	.9	.1									2.1	3.7
WSW	1.4	2.5	.6									4.4	4.4
W	2.3	4.4	4.5	.7								11.5	6.0
WNW	1.4	1.0	.3									2.7	4.0
NW	1.1	.7	.7									2.5	4.5
NNW	.5	.5	.2	.1								1.2	4.7
VARIABLE			3.5	.2								3.8	8.5
CALM	////////////////////											43.6	////
TOTALS	25.9	18.8	10.8	.8								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	PLAN 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	.9	.1									1.1	3.5
NNE	.2	.1	.0									.4	3.0
NE	.5	.3	.0									.8	3.2
ENE	1.1	1.0	.1									2.2	3.7
E	4.1	3.2	.3									7.6	3.5
ESE	3.7	1.1	.0									4.9	2.6
SE	2.4	1.1	.0									3.5	2.9
SSE	2.2	1.2	.1									3.5	3.0
S	3.1	1.8	.2									5.1	3.3
SSW	1.8	1.4	.2									3.4	3.5
SW	1.7	1.1	.2									3.1	3.6
WSW	2.2	2.5	1.0	.3								5.9	4.8
W	3.0	4.2	2.7	.7								11.1	5.5
WNW	1.4	1.5	.6	.2	.0							3.7	5.0
NW	1.0	1.3	.7	.1								3.2	5.0
NNW	1.2	.6	.2	.0								1.9	3.6
VARIABLE		.1	4.1	.9	.2	.1	.0					5.3	9.7
CALM	////////////////////											33.3	////
TOTALS	30.1	23.6	10.6	2.1	.2	.1	.0					100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 7097

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AFB GFR

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS: 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	.7	.3										.9	2.7
NNE	.4	.3										.7	2.8
NE	.3	.1										.4	4.0
ENE	.3	.7	.3									1.2	5.2
E	4.6	1.8	.3									6.6	3.1
ESE	5.7	.8										6.5	2.3
SE	3.7	1.2										4.8	2.9
SSE	2.1	.3	.3									2.6	2.8
S	1.7	1.6	.3									3.5	3.6
SSW	1.0	1.0	.1	.1								2.3	4.2
SW	1.0	1.3										2.3	3.5
WSW	2.1	1.6	1.8		.3							5.7	5.7
W	2.0	5.0	6.1	1.0	.1							14.2	6.7
WNW	.7	1.7	1.3	.5								4.2	6.6
NW	.5	2.0	.7									3.1	4.9
NNW	.2	.7										.9	4.4
VARIABLE			3.0	1.4								4.4	10.0
CALM	////////////////////											35.5	////
TOTALS	26.9	20.1	14.1	3.1	.4							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 767

GLOBAL CLIMATOLOGY BRANCH
USAF/AFAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 116470 STATION NAME: GRAFENWOHR AFB GER

PERIOD OF RECORD: 77-86
MONTH: DEC 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	.4										1.2	2.8
NNE	.5	.1										.6	1.8
NE		.2										.2	4.5
NNE	.9	.6	.4									1.9	4.1
E	5.1	2.4	.2									7.7	3.0
ESE	5.3	1.6	.4									7.3	2.9
SE	3.9	.4										4.5	2.2
SSE	1.6	.6	.1									2.4	3.1
S	2.4	2.2	.2									4.9	3.5
SSW	.7	1.1	.1									2.0	3.8
SW	1.4	.2	.7									2.4	4.4
WSW	2.1	2.5	1.2	.1								6.0	4.7
W	2.0	4.8	5.1	2.4								14.3	7.0
WNW	.6	1.1	1.5		.1							3.4	6.4
NW	1.6	1.5	.2									3.4	4.0
NNW	.5	.4										.9	3.4
VARIABLE			2.7	1.0	.1							3.9	9.9
CALM	////////////////////////////////////											32.8	////
TOTALS	29.4	21.0	13.0	7.7	.2							200.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 205

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 176P70 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(15): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	.2									.8	2.4
NNE	.2										.2	1.5
NE	.5										.5	2.3
NNE	1.6	.5	.1								2.2	2.9
E	5.2	2.8	.2								7.8	3.1
ESE	5.1	.9									6.1	2.6
SE	2.7	.4	.1								3.2	2.6
SSE	2.2	.8	.1								2.9	3.2
S	2.5	1.9	.1								4.4	3.6
SSE	1.5	1.2	.4								2.8	4.2
SW	1.3	1.4	.1								2.8	3.7
WSW	1.5	2.1	1.4								5.0	5.2
W	1.2	4.6	2.9	1.4							12.0	6.9
WNW	1.1	1.7	.7	.4							3.4	5.5
WW	1.1	.7	.1	.1							2.0	3.9
WNW	.5	.1	.4								1.3	4.9
VAR/FALL			.1	1.4	.1						3.6	17.7
CALM	////////////////////////////////////										34.9	////
TOTALS	22.7	18.9	9.7	3.6	.1						100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 456

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 116870 STATION NAME: GRAFFENHOFER AFB GIN

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	.5	.3	.1									.9	3.9	
NNE														
NE	.9	.2										1.2	3.0	
NNE	1.4	.1										1.5	2.5	
E	4.1	4.4	.6									9.1	3.8	
ESE	6.5	1.2	.1									7.8	2.3	
SE	3.7	.8	.1									4.7	2.5	
SSE	1.7	1.0										2.8	3.0	
S	3.0	2.4	.5									5.9	3.9	
SSW	1.5	1.2	.1									2.9	3.7	
SW	1.2	1.9	.5	.1								3.6	4.9	
WSW	1.2	1.9	.9	.1								5.6	5.2	
W	2.2	4.5	5.7	1.7	.1	.2						14.5	7.4	
WSW	1.2	1.1	.7	.2								4.2	5.5	
NW	.7	.6	.5	.1								2.2	6.2	
NNW	.6	.2	.1									1.0	3.4	
VARIABLE			2.6	1.5	.1							4.2	10.1	
CALC	////////////////////////////////////												28.0	////
TOTALS	30.2	24.5	17.4	4.7	.2	.7						100.0	3.5	

TOTAL NUMBER OF OBSERVATIONS: 607

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC 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	.6	.5									1.1	3.1
NNE	.1										.1	1.0
NE	1.1	.8									1.9	3.3
ENE	1.1	1.2	.1								2.4	3.7
E	3.6	3.4	.1								7.2	3.7
ESE	5.3	3.2	.1								8.6	3.2
SE	3.5	1.5	.1								5.2	3.0
SSE	2.4	1.5									3.9	3.0
S	2.7	2.7	.5								5.9	3.8
SSW	2.1	2.1	.2								4.5	3.8
SV	1.3	1.4	.9	.1							3.8	5.1
WSW	2.1	2.6	1.4	.2							6.3	4.9
W	2.1	4.7	5.8	2.2	.5						15.3	7.6
WNW	.6	1.3	1.9	.4							4.1	7.0
NW	.8	2.1	.7	.2							3.9	5.3
NNW	.6	1.2	.1								1.9	4.1
VARIABLE			4.8	1.5	.4						6.7	10.1
CALM											17.5	////
TOTALS	30.0	30.2	16.8	4.7	.8						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 851

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC 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	.8	.2										1.1	2.8
NNE													
NE	.5	.1										.6	3.2
ENE	.9	.9										1.9	3.2
E	4.5	3.9	.6									9.0	3.6
ESE	5.7	2.5										8.2	2.9
SE	3.0	1.1	.1									4.1	2.7
SSE	2.5	.9	.4									3.8	3.5
S	1.5	1.9										3.4	3.7
SSW	1.3	1.7	.1									3.1	3.8
SW	1.3	1.7	.2									3.2	4.2
WSW	1.5	3.1	.9									5.6	4.9
W	3.3	4.7	7.5	1.8	.4							17.7	7.0
WNW	.6	2.0	.8	.5	.1							4.0	6.7
NW	.6	1.4	.5									2.5	4.7
NNW	1.2	.1										1.3	2.4
VARIABLE	.1	.1	3.8	.7	.4							5.1	9.5
CALM	////////////////////											25.5	////
TOTALS	29.4	26.4	14.9	3.0	.8							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 844

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC 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	.2										.2	2.0
NNE	.2	.1									.4	3.3
NE	.2										.2	2.5
ENE	.8	.8	.2								1.9	4.1
E	4.7	2.8	.6								7.4	3.5
ESE	5.6	1.1	.1								6.8	2.9
SE	3.1	.8	.2								4.2	2.7
SSE	2.1	.7	.5								3.3	3.5
S	1.1	1.3	.6								3.0	4.4
SSW	.8	.8	.1								1.8	3.9
SW	1.1	1.5	1.0								3.6	4.7
WSW	1.9	1.9	1.8	.1							5.8	5.2
W	3.0	5.0	5.7	1.5	.4						15.5	6.8
WNW	1.1	1.5	.8	.6							4.0	6.8
WW	.9	.6	.4								1.8	4.0
NNW	.5	.5	.1								1.1	3.7
VARIABLE			2.1	1.2	.1						3.4	10.0
CALM	////////////////////										35.4	////
TOTALS	27.0	19.5	14.3	3.4	.5						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 826

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LOCAL): 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											.6	1.6
NNE	.5											.5	1.8
NE	.3	.5										.8	3.8
ENE	.9	.4										1.3	3.1
E	4.2	2.4	1.0									7.7	3.6
ESE	4.5	.9										5.4	2.3
SE	2.3	.9										3.2	2.8
SSE	2.2	.6	.1									3.0	2.9
S	1.3	2.6	.1									4.0	4.1
SSW	1.3	1.0	.5									2.8	4.4
SW	1.0	1.0	1.0									3.1	5.3
WSW	1.5	2.8	1.0	.3								5.7	5.2
W	2.2	4.5	7.6	1.7								15.9	7.1
WNN	.8	.6	1.0	.1	.1							2.7	6.1
NW	.8	1.3	.6	.4								3.1	5.9
NNW	.4	.1	.4									.9	4.7
VARIABLE		.1	2.3	.3								2.7	8.6
CALM	////////////////////											36.6	////
TOTALS	24.8	19.9	15.8	2.7	.1							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 778

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	34-40	41-47	48-55	GE 56		
N	.6	.2	.0									.9	2.8
NNE	.2	.1										.3	2.2
NE	.5	.3										.7	3.3
ENE	1.0	.7	.1									1.8	3.5
E	4.4	3.0	.5									7.8	3.4
ESE	5.5	1.5	.1									7.1	2.6
SE	3.2	.9	.1									4.2	2.7
SSE	2.1	.8	.2									3.1	3.2
S	2.0	2.1	.3									4.4	3.8
SSW	1.3	1.3	.2	.0								2.8	3.9
SW	1.2	1.4	.6	.0								3.2	4.5
WSW	1.7	2.5	1.3	.1	.0							5.7	5.1
W	2.3	4.7	5.9	1.8	.2	.0						14.9	7.1
WNW	.8	1.5	1.1	.3	.0							3.7	6.3
NW	.9	1.7	.5	.2								2.7	4.9
NNW	.6	.5	.1									1.2	3.9
VARIABLE	.0	.0	2.9	1.1	.2							4.3	9.9
CALM	////////////////////											31.1	////
TOTALS	28.4	22.7	13.9	3.6	.4	.0						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS: 6567

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87
MONTH: ALL 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	.9	.6	.1	.0								1.5	3.4
NNE	.6	.7	.0									.9	2.8
NE	.9	.5	.0	.0								1.5	3.3
NNE	1.5	1.3	.3	.0								3.1	3.7
E	3.2	2.5	.4	.0	.0							6.1	3.6
ESE	2.8	1.2	.1	.0								4.1	2.9
SE	1.9	.9	.1	.0								2.7	3.1
SSE	1.4	.7	.1	.0								2.2	3.1
S	1.6	1.4	.2	.0								3.2	3.7
SSW	1.2	1.0	.2	.0								2.4	3.8
SW	1.1	1.1	.3	.0								2.5	4.1
WSW	1.8	2.1	.9	.1	.0							4.9	4.6
W	3.0	4.9	3.0	.6	.0	.0						11.6	5.6
WNW	1.4	2.1	1.5	.3	.0							5.4	5.7
NW	1.2	1.4	.8	.1	.0							3.6	5.0
NNW	1.4	.9	.3	.0								2.6	3.8
VARIABLE	.0	.1	3.7	.9	.1	.0	.0					4.7	9.3
CALM	////////////////////											37.0	////
TOTALS	25.3	22.9	12.0	2.2	.1	.0	.0					100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 86040

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

WIND SPEED IN KNOTS

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL	MEAN WIND
N	.6	.2	.0	.0								.8	3.0
NNE	.4	.1	.0									.5	2.4
NE	.7	.3	.0									1.0	3.0
ENE	1.3	1.0	.3									2.5	3.7
E	3.3	1.4	.2	.0								4.9	3.0
ESE	4.0	.8	.0									4.9	2.4
SE	2.6	1.0	.0	.0								3.6	2.8
SSE	1.8	.8	.1									2.7	3.0
S	1.9	1.4	.1									3.5	3.3
SSW	1.1	.7	.1	.0								2.0	3.4
SW	1.1	.9	.2	.0								2.2	3.8
WSW	2.0	2.0	.6	.1	.0							4.5	4.2
W	3.5	5.0	2.9	.5	.0							11.8	5.2
WNW	1.6	2.1	1.1	.2	.0							5.0	5.1
NW	1.3	1.2	.4	.1	.0							3.0	4.4
NNW	1.1	.5	.1	.0								1.8	3.4
VARIABLE	.0	1.6	.4	.0	.0							2.1	9.4
CALM	////////////////////											43.1	////
TOTALS	28.3	19.3	7.9	1.2	.0	.0						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS: 20160

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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-HOUR 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
UNSCUED	-	10/10

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN FOUR (1ST): 0000-0200

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	160	90	80	60	40	32	24	20	16	12	10	8	5	4	0		
NO CEIL	7.0	8.4	11.8	15.1	15.9	17.1	18.3	18.4	19.8	20.1	20.2	20.2	20.9	20.9	20.9		
GE 20000	7.9	9.6	13.2	16.6	17.4	18.6	19.8	20.0	21.3	21.6	21.7	21.7	22.4	22.4	22.4		
GE 16000	8.5	10.2	14.2	17.5	18.3	19.5	20.8	20.9	22.3	22.5	22.6	22.6	23.3	23.3	23.3		
GE 14000	8.5	10.2	14.2	17.5	18.3	19.5	20.8	20.9	22.3	22.5	22.6	22.6	23.3	23.3	23.3		
GE 14000	8.5	10.2	14.2	17.5	18.3	19.5	20.8	20.9	22.3	22.5	22.6	22.6	23.3	23.3	23.3		
GE 12000	8.6	10.4	14.4	17.7	18.6	19.7	21.0	21.1	22.5	22.7	22.9	22.9	23.5	23.5	23.5		
GE 10000	9.0	10.9	15.4	18.8	19.6	21.1	22.5	22.6	24.2	24.5	24.6	24.6	25.3	25.3	25.3		
GE 9000	9.3	11.1	15.7	19.0	19.8	21.3	22.7	22.9	24.5	24.7	24.8	24.8	25.5	25.5	25.5		
GE 8000	10.6	12.4	17.2	20.6	21.7	23.3	24.7	24.8	26.5	26.7	26.8	26.8	27.5	27.5	27.5		
GE 7000	11.4	13.2	18.6	22.4	23.4	25.4	26.9	27.0	28.7	28.9	29.0	29.0	29.7	29.7	29.7		
GE 6000	11.8	13.7	19.0	22.9	23.9	25.9	27.4	27.5	29.1	29.4	29.5	29.5	30.2	30.2	30.2		
GE 5000	13.0	14.8	20.4	24.4	25.5	27.5	29.0	29.4	31.0	31.2	31.3	31.4	32.1	32.1	32.1		
GE 4500	14.4	16.2	22.4	26.5	27.6	29.8	31.3	31.7	33.3	33.5	33.6	33.8	34.5	34.5	34.5		
GE 4000	16.1	18.0	24.1	28.9	30.0	32.4	34.0	34.5	36.1	36.3	36.4	36.5	37.2	37.2	37.2		
GE 3500	17.2	19.4	25.8	30.5	31.7	34.2	36.2	36.8	38.4	38.7	39.0	39.1	39.8	39.8	39.8		
GE 3000	20.0	22.5	29.9	35.0	36.2	39.0	41.4	42.0	43.9	44.2	44.4	44.8	45.6	45.7	45.7		
GE 2500	22.2	24.7	32.6	37.9	39.1	42.6	45.2	45.8	47.8	48.1	48.4	48.7	49.5	49.7	49.7		
GE 2000	24.4	27.3	35.6	44.1	45.4	49.4	53.0	53.9	56.5	56.8	57.1	57.4	58.2	58.4	58.4		
GE 1800	24.9	28.1	38.9	45.6	46.9	51.2	54.9	55.9	58.5	58.8	59.0	59.4	60.2	60.3	60.3		
GE 1500	26.5	30.4	42.2	50.0	51.7	57.7	62.3	63.3	65.9	66.2	66.5	66.8	67.6	67.7	67.7		
GE 1200	27.1	31.9	45.6	53.7	55.7	62.5	67.4	68.6	71.9	72.3	72.7	73.1	73.9	74.0	74.0		
GE 1000	28.1	33.4	47.7	56.0	56.4	65.8	71.8	73.0	77.3	78.0	78.5	79.0	79.9	80.0	80.0		
GE 900	28.2	33.9	49.2	57.5	59.9	67.4	73.5	74.7	79.2	80.0	80.6	81.1	82.0	82.1	82.1		
GE 800	28.3	34.1	50.3	59.0	61.4	69.4	75.5	76.7	81.2	82.0	82.6	83.4	84.3	84.5	84.5		
GE 700	28.3	34.1	50.5	59.2	61.5	70.1	76.8	78.2	82.9	83.9	84.8	85.4	86.3	86.4	86.4		
GE 600	28.3	34.1	50.7	59.5	62.1	71.0	78.0	79.6	84.8	85.7	86.7	87.2	88.4	88.5	88.5		
GE 500	28.3	34.3	50.9	59.7	62.3	71.2	78.5	80.6	86.1	87.4	88.5	89.7	90.8	91.0	91.0		
GE 400	28.3	34.3	51.0	60.0	62.5	72.2	80.3	82.4	88.9	90.3	91.6	92.8	94.1	94.2	94.2		
GE 300	28.3	34.3	51.0	60.2	62.6	72.7	81.0	83.2	89.9	91.3	92.9	94.1	95.6	96.1	96.1		
GE 200	28.3	34.3	51.0	60.2	62.8	72.7	81.2	83.4	90.3	91.8	93.7	94.9	97.0	97.7	98.0		
GE 100	28.3	34.3	51.0	60.2	62.8	72.9	81.3	83.5	90.6	92.2	94.4	95.6	97.8	98.6	100.0		

TOTAL NUMBER OF OBSERVATIONS: 862

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 46	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	6.2	7.9	11.6	14.9	16.6	17.5	18.4	18.7	19.5	19.6	19.7	19.7	20.3	20.6	20.6	
GE 20000	6.9	9.1	12.9	16.2	17.3	18.8	19.7	20.1	20.9	21.0	21.1	21.1	21.7	21.9	21.9	
GE 18000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 16000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 14000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 12000	7.0	9.2	13.2	16.5	17.7	19.2	20.1	20.4	21.2	21.4	21.5	21.5	22.0	22.3	22.3	
GE 10000	7.6	9.8	14.4	17.7	18.8	20.3	21.2	21.6	22.7	22.8	23.0	23.0	23.5	23.8	23.8	
GE 9000	7.7	9.9	14.5	17.8	18.9	20.4	21.4	21.7	22.8	23.0	23.1	23.1	23.7	23.9	23.9	
GE 8000	8.5	11.7	15.4	18.9	20.1	21.7	22.7	23.1	24.2	24.3	24.5	24.5	25.0	25.3	25.3	
GE 7000	10.0	12.3	17.8	21.4	22.5	24.2	25.3	25.7	26.9	27.0	27.1	27.1	27.7	27.9	27.9	
GE 6000	10.0	12.3	17.8	21.4	22.5	24.2	25.3	25.7	26.9	27.0	27.1	27.1	27.7	27.9	27.9	
GE 5000	11.3	14.2	20.1	24.2	25.7	27.8	28.8	29.5	30.7	30.8	30.9	30.9	31.5	31.7	31.7	
GE 4500	11.9	15.0	21.0	25.3	26.8	28.8	30.2	30.9	32.0	32.1	32.3	32.3	32.8	33.1	33.1	
GE 4000	13.7	16.9	24.2	28.7	30.2	32.6	34.4	35.1	36.3	36.4	36.5	36.5	37.1	37.3	37.3	
GE 3500	15.0	18.3	25.7	30.4	32.0	34.6	36.4	37.1	38.2	38.3	38.5	38.5	39.0	39.3	39.3	
GE 3000	16.9	20.9	29.0	34.2	36.1	39.0	41.2	41.9	43.2	43.6	43.7	43.9	44.4	44.7	44.7	
GE 2500	18.5	22.6	31.3	36.7	38.7	42.1	45.4	46.0	47.3	47.8	47.9	48.0	48.6	48.8	48.8	
GE 2000	20.7	25.3	35.8	42.5	44.4	48.0	51.5	52.2	53.6	54.2	54.3	54.4	55.0	55.2	55.2	
GE 1800	21.5	26.1	36.7	43.5	45.5	49.4	53.0	53.7	55.1	55.7	55.8	56.0	56.6	56.8	56.8	
GE 1500	23.4	28.1	39.8	47.6	49.8	54.8	58.8	59.6	61.3	62.0	62.2	62.6	63.1	63.4	63.4	
GE 1200	24.3	29.9	43.9	52.8	55.3	61.3	65.9	66.8	69.1	69.8	70.3	70.6	71.2	71.4	71.4	
GE 1000	24.9	31.3	46.5	56.3	59.0	66.1	71.0	72.0	74.7	75.7	76.2	76.6	77.2	77.4	77.4	
GE 900	25.1	31.8	47.8	57.5	60.3	67.4	72.4	73.5	77.2	78.1	78.9	79.2	79.8	80.0	80.0	
GE 800	25.1	31.9	48.8	58.8	61.5	69.1	74.3	75.4	79.1	80.1	81.1	81.4	82.0	82.2	82.2	
GE 700	25.1	31.9	49.1	59.2	62.0	69.7	75.5	76.9	80.6	81.7	82.9	83.4	84.2	84.4	84.4	
GE 600	25.1	31.9	49.1	59.5	62.5	70.6	77.2	78.5	82.7	83.8	85.1	85.9	86.9	87.3	87.3	
GE 500	25.1	31.9	49.4	60.2	63.3	71.9	78.5	80.4	85.0	86.6	88.1	89.1	90.1	90.5	90.5	
GE 400	25.1	31.9	49.4	60.2	63.3	72.3	79.6	82.0	87.6	89.6	91.4	92.5	93.6	93.9	93.9	
GE 300	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.5	90.5	93.0	94.3	95.3	96.0	96.0	
GE 200	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.6	90.6	93.5	94.7	96.4	98.0	98.5	
GE 100	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.7	90.7	94.0	95.3	97.0	98.7	100.0	
GE 0	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.7	90.7	94.0	95.3	97.0	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 871

GLOBAL CLIMATOLOGY BRANCH
LAFLYAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(1ST): 0600-0800

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0		
NO CEIL		5.3	6.2	10.3	12.7	13.3	14.5	14.9	14.9	16.1	16.1	16.3	16.6	16.8	16.8	16.8	
GE 20000		5.5	6.8	11.0	13.6	14.2	15.4	15.9	15.9	17.1	17.1	17.3	17.7	17.8	17.8	17.8	
GE 18000		5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 16000		5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 14000		5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 12000		5.8	7.0	11.2	13.9	14.5	15.9	16.3	16.3	17.6	17.6	17.8	18.1	18.2	18.2	18.2	
GE 10000		6.7	7.9	12.2	15.3	15.9	17.4	18.1	18.1	19.5	19.5	19.7	20.2	20.3	20.3	20.3	
GE 9000		6.9	8.2	12.6	15.6	16.2	17.8	18.5	18.5	19.8	19.8	20.0	20.5	20.6	20.6	20.6	
GE 8000		7.2	8.6	13.1	16.4	17.1	19.1	19.8	19.9	21.3	21.3	21.5	22.0	22.1	22.1	22.1	
GE 7000		8.3	9.6	14.6	18.1	18.9	21.5	22.2	22.3	23.8	23.8	24.0	24.5	24.6	24.7	24.7	
GE 6000		8.4	9.7	14.7	18.5	19.3	21.9	22.5	22.7	24.1	24.1	24.3	24.8	24.9	25.0	25.0	
GE 5000		9.3	10.8	15.7	19.6	20.5	23.1	23.8	23.9	25.4	25.4	25.6	26.0	26.2	26.3	26.3	
GE 4000		9.7	11.7	17.0	20.8	21.7	24.5	25.4	25.5	27.0	27.0	27.2	27.6	27.7	27.9	27.9	
GE 3000		11.0	13.6	19.4	23.4	24.5	27.2	28.2	28.3	29.8	29.8	30.0	30.5	30.6	30.7	30.7	
GE 2500		13.0	16.0	22.3	26.5	27.7	30.5	31.5	31.7	33.3	33.3	33.5	34.0	34.1	34.2	34.2	
GE 2000		15.7	18.9	26.6	31.6	33.3	36.1	37.1	37.5	39.2	39.2	39.4	39.9	40.0	40.1	40.1	
GE 1500		17.2	20.5	28.9	33.9	36.0	39.3	40.4	41.1	43.0	43.0	43.3	43.7	43.9	44.1	44.1	
GE 1000		20.4	24.5	34.6	41.2	43.6	48.0	49.4	50.2	52.7	52.7	53.0	53.5	53.7	53.8	53.8	
GE 800		20.5	24.6	35.0	41.4	44.1	48.6	49.9	50.7	53.3	53.3	53.8	54.2	54.5	54.6	54.6	
GE 600		22.9	27.5	39.4	46.7	49.6	55.0	57.5	58.4	61.3	61.3	61.7	62.3	62.5	62.6	62.6	
GE 400		23.7	28.9	43.2	52.0	55.4	62.3	64.9	65.8	69.3	69.4	69.9	70.7	70.9	71.0	71.0	
GE 300		24.6	30.5	45.2	54.2	57.9	65.5	68.4	69.5	73.5	73.8	74.4	75.3	75.5	75.7	75.7	
GE 200		24.6	30.5	46.5	56.1	59.7	67.5	70.8	71.9	76.4	76.8	77.3	78.4	78.7	78.8	78.8	
GE 100		24.7	31.4	47.9	57.6	61.5	70.0	73.5	74.6	79.5	79.8	80.5	81.8	82.1	82.2	82.2	
GE 50		24.9	31.6	48.5	58.2	62.1	70.6	74.5	75.7	81.0	81.4	82.1	83.5	84.0	84.1	84.1	
GE 0		24.9	31.6	48.7	58.8	63.0	71.9	76.0	77.2	83.4	83.8	84.6	86.2	86.9	87.0	87.0	
GE 5000		24.9	31.6	49.0	59.3	63.5	73.3	78.0	79.3	86.0	86.7	87.5	89.4	90.1	90.3	90.3	
GE 4000		24.9	31.6	49.3	59.7	64.0	74.1	79.3	80.6	87.5	88.4	89.6	91.8	93.0	93.1	93.1	
GE 3000		24.9	31.6	49.4	59.8	64.2	74.3	80.0	81.3	89.0	90.0	91.5	93.9	95.4	95.9	95.9	
GE 2000		24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.6	90.7	92.4	95.4	97.5	98.3	98.5	
GE 1000		24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.8	90.9	92.9	95.8	98.0	99.3	100.0	
GE 0		24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.8	90.9	92.9	95.8	98.0	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 83

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOLLY OBSERVATIONS

STATION NUMBER: 106470 STATION NAME: GRAFENWOHLE AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(IST): 0000-1100

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GF 80	GE 60	GE 40	GE 30	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CLIL		5.6	7.3	11.4	13.4	14.2	15.7	16.8	16.8	18.1	18.1	18.6	18.6	18.7
GE 20000		6.6	8.4	13.5	15.6	16.5	18.2	19.2	19.2	20.8	20.8	21.3	21.3	21.5
GE 18000		6.6	8.4	13.5	15.6	16.5	18.4	19.5	19.5	21.0	21.0	21.5	21.5	21.7
GE 16000		6.6	8.4	13.5	15.6	16.5	18.4	19.5	19.5	21.0	21.0	21.5	21.5	21.7
GE 14000		6.9	8.7	13.7	15.9	16.6	18.7	19.7	19.7	21.3	21.3	21.7	21.7	21.9
GE 12000		7.1	8.9	13.9	16.1	17.0	19.0	20.0	20.0	21.6	21.6	22.0	22.0	22.3
GE 10000		7.2	9.1	14.3	16.6	17.5	19.7	20.7	20.7	22.3	22.3	22.7	22.7	22.9
GE 9000		7.2	9.1	14.3	16.9	17.8	19.9	20.9	20.9	22.5	22.5	22.9	22.9	23.2
GE 8000		8.2	10.2	16.0	18.8	19.7	22.7	23.2	23.2	24.7	24.7	25.2	25.2	25.4
GE 7000		9.7	12.0	18.2	21.0	22.6	24.6	25.6	25.6	27.3	27.3	27.8	27.8	28.0
GE 6000		9.8	12.1	18.4	21.4	22.5	25.1	26.1	26.1	27.8	27.8	28.2	28.2	28.5
GE 5000		10.5	12.9	19.7	22.9	24.1	26.7	27.7	27.7	29.4	29.4	29.8	29.8	30.0
GE 4500		11.1	13.8	21.1	24.4	25.5	28.1	29.1	29.2	30.9	31.0	31.5	31.5	31.7
GE 4000		12.6	15.3	23.2	26.4	27.7	30.3	31.4	31.5	33.2	33.3	33.7	33.7	34.1
GE 3500		14.4	17.1	25.1	28.5	29.7	32.3	33.5	33.6	35.4	35.5	36.0	36.0	36.4
GE 3000		18.3	21.4	30.0	33.9	35.7	38.7	40.0	40.3	42.2	42.3	42.7	42.7	43.1
GE 2500		21.0	24.7	34.3	38.2	40.4	43.6	45.4	45.9	47.8	47.9	48.4	48.4	48.7
GE 2000		24.6	28.6	39.3	44.0	46.3	50.1	52.2	52.9	55.0	55.1	55.8	55.8	56.1
GE 1800		25.2	29.1	40.0	44.8	47.1	50.8	53.1	53.9	56.1	56.2	56.9	56.9	57.3
GE 1600		26.3	30.4	42.5	49.3	52.0	56.7	59.6	60.6	63.7	63.9	64.8	64.9	65.2
GE 1400		28.1	32.3	45.3	53.9	56.7	62.3	66.3	67.3	71.0	71.3	72.2	72.3	72.7
GE 1200		28.6	32.8	46.6	55.7	58.6	64.8	69.0	70.1	74.6	75.4	76.4	76.6	77.1
GE 1000		28.8	33.4	47.4	56.9	60.0	66.6	70.9	72.2	77.3	78.1	79.3	79.5	80.0
GE 900		29.0	33.6	48.0	58.2	61.2	68.6	73.0	74.4	80.0	80.8	82.2	82.7	83.1
GE 800		29.1	33.9	48.8	59.2	62.5	70.5	75.3	76.6	83.5	84.3	85.8	86.5	87.1
GE 700		29.4	34.1	49.2	59.6	63.7	72.1	76.8	78.3	85.2	85.9	87.7	89.1	89.9
GE 600		29.5	34.3	49.4	60.2	64.5	73.3	78.3	79.8	86.8	87.6	90.0	92.1	93.4
GE 500		29.7	34.5	49.6	61.0	65.6	74.6	80.3	81.8	89.3	90.1	92.6	94.8	96.4
GE 400		29.7	34.5	49.6	61.0	65.6	74.9	80.8	82.2	90.0	91.0	94.0	96.5	98.6
GE 300		29.7	34.5	49.6	61.0	65.6	74.9	80.8	82.2	90.0	91.0	94.0	96.5	98.6
GE 200		29.7	34.5	49.6	61.0	65.6	74.9	80.8	82.2	90.0	91.0	94.0	96.5	98.6
GE 100		29.9	34.8	49.8	61.3	65.9	75.3	81.1	82.6	90.3	91.3	94.4	96.9	99.2

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	GE 2	GE 1	GE 0
NO CEIL		10.7	13.9	15.6	18.9	21.2	22.2	23.5	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
GE 20000		12.3	12.6	18.6	22.1	23.6	25.6	26.6	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
GE 18000		13.2	13.5	19.5	23.0	24.5	26.6	27.8	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
GE 16000		13.2	13.5	19.5	23.0	24.5	26.6	27.8	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
GE 14000		13.6	13.8	19.9	23.3	24.6	26.9	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
GE 12000		14.0	14.3	20.3	23.8	25.3	27.4	28.6	28.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
GE 10000		14.5	14.7	21.0	24.5	25.9	28.1	29.3	29.3	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5
GE 9000		14.6	14.8	21.4	24.9	26.4	28.5	29.7	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GE 8000		15.3	15.5	22.2	25.4	27.5	29.9	31.1	31.1	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3
GE 7000		16.2	16.4	23.9	27.9	29.5	32.0	33.2	33.2	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4
GE 6000		16.3	16.5	24.1	28.2	29.7	32.2	33.4	33.4	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 5000		16.5	17.1	24.4	29.3	30.4	33.3	34.6	34.6	34.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 4500		17.4	17.6	25.6	30.0	31.5	34.1	35.8	35.8	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 4000		19.6	19.9	28.3	32.8	34.5	37.0	38.6	38.8	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 3500		21.6	22.1	30.8	35.5	37.1	39.7	41.5	41.5	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 3000		27.2	28.2	37.3	42.3	44.6	47.4	49.4	49.4	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 2500		29.5	30.6	40.3	45.6	47.9	50.8	53.0	53.2	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 2000		33.0	35.0	46.1	51.6	54.3	57.7	60.0	60.4	60.5	60.7	61.1	61.1	61.1	61.1	61.1	61.1
GE 1800		33.3	35.4	46.7	52.6	55.7	59.1	61.5	61.8	62.0	62.2	62.5	62.5	62.5	62.5	62.5	62.5
GE 1500		36.3	38.6	52.0	59.4	62.6	66.8	69.7	70.1	70.6	70.8	71.2	71.3	71.3	71.3	71.3	71.3
GE 1200		37.1	40.2	55.2	64.4	67.8	72.7	75.6	76.2	77.9	78.1	78.6	78.7	78.7	78.7	78.7	78.7
GE 1000		37.5	40.6	56.6	66.3	69.9	75.4	79.0	79.8	82.5	83.1	83.6	84.1	84.1	84.1	84.1	84.1
GE 900		37.7	41.1	57.1	67.2	70.9	76.5	80.1	80.9	83.7	84.4	85.0	85.4	85.4	85.4	85.4	85.4
GE 800		38.0	41.5	57.7	68.2	71.9	78.1	81.9	82.9	86.0	86.6	87.2	87.7	87.7	87.7	87.7	87.7
GE 700		38.2	41.6	58.1	69.0	73.0	79.8	84.1	85.2	89.0	89.7	90.6	91.0	91.0	91.0	91.0	91.0
GE 600		38.2	41.6	58.4	69.6	73.6	80.6	85.1	86.3	90.6	91.4	92.8	93.5	93.5	93.5	93.5	93.5
GE 500		38.2	41.6	58.4	70.0	74.1	81.4	86.0	87.4	92.4	93.4	95.2	96.1	96.4	96.4	96.4	96.4
GE 400		38.2	41.6	58.6	70.9	75.0	82.3	87.2	88.7	93.8	94.8	97.1	98.0	98.3	98.3	98.3	98.3
GE 300		38.2	41.6	58.6	70.9	75.0	82.3	87.2	88.7	94.1	95.1	97.4	98.4	98.9	98.9	98.9	98.9
GE 200		38.2	41.6	58.6	70.9	75.0	82.6	87.5	89.0	94.5	95.5	97.9	98.9	99.3	99.3	99.3	99.3
GE 100		38.2	41.6	58.6	70.9	75.0	82.6	87.5	89.0	94.5	95.5	97.9	98.9	99.4	99.6	99.6	99.6
GE 0		38.3	41.8	58.7	71.0	75.1	82.7	87.7	89.1	94.6	95.6	98.0	99.0	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS(LST): 1500-1700

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	ST 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		10.3	10.5	16.6	18.9	20.3	22.4	23.6	23.7	24.0	24.0	24.0	24.0	24.0	24.1	24.1	
GE 2000		12.1	12.6	20.0	22.9	24.4	26.5	27.7	27.8	28.3	28.3	28.3	28.3	28.3	28.4	28.4	
GE 1800		12.6	13.0	20.4	23.3	24.8	26.9	28.2	28.3	28.7	28.7	28.7	28.7	28.7	28.8	28.8	
GE 1600		12.6	13.0	20.4	23.3	24.8	26.9	28.2	28.3	28.7	28.7	28.7	28.7	28.7	28.8	28.8	
GE 1400		13.0	13.5	20.9	23.8	25.3	27.4	28.7	28.8	29.3	29.3	29.3	29.3	29.3	29.4	29.4	
GE 1200		13.6	14.3	21.7	24.6	26.0	28.2	29.5	29.6	30.1	30.1	30.1	30.1	30.1	30.2	30.2	
GE 1000		13.9	14.7	22.3	25.4	26.9	29.1	30.5	30.6	31.1	31.1	31.1	31.1	31.1	31.2	31.2	
GE 900		14.1	14.9	22.7	25.7	27.3	29.4	30.9	31.0	31.4	31.4	31.4	31.4	31.4	31.5	31.5	
GE 800		14.7	15.7	23.9	27.4	29.0	31.1	32.5	32.7	33.1	33.1	33.1	33.1	33.2	33.3	33.3	
GE 700		16.3	17.5	26.4	30.2	32.0	34.1	35.6	35.7	36.1	36.1	36.1	36.1	36.3	36.4	36.4	
GE 600		16.8	18.1	27.0	30.9	32.7	34.8	36.3	36.4	36.8	36.8	36.8	36.8	36.9	37.0	37.0	
GE 500		17.8	19.1	28.3	32.1	34.2	36.4	37.8	37.9	38.4	38.4	38.4	38.4	38.5	38.6	38.6	
GE 400		18.4	19.6	29.0	32.8	35.0	37.3	38.8	38.9	39.4	39.4	39.4	39.4	39.5	39.6	39.6	
GE 300		20.5	21.8	31.5	35.4	37.6	39.8	41.4	41.5	42.0	42.0	42.0	42.0	42.1	42.2	42.2	
GE 250		22.8	24.1	34.3	38.7	41.0	43.4	45.3	45.5	45.9	45.9	45.9	45.9	46.0	46.1	46.1	
GE 200		26.9	29.3	41.4	45.9	48.3	51.2	53.2	53.3	53.9	53.9	54.0	54.0	54.2	54.3	54.3	
GE 1500		28.7	31.4	44.1	48.9	51.3	54.2	56.3	56.5	57.0	57.1	57.2	57.2	57.5	57.6	57.6	
GE 1200		32.1	35.0	48.7	54.4	57.0	60.0	62.4	62.5	63.1	63.3	63.5	63.5	63.7	63.9	63.9	
GE 1000		32.6	35.8	49.0	55.0	58.5	61.6	64.1	64.2	64.8	65.0	65.2	65.2	65.4	65.5	65.5	
GE 800		35.7	39.6	54.4	61.2	64.1	67.6	71.0	71.3	71.9	72.3	72.5	72.6	72.8	73.0	73.0	
GE 600		37.5	41.5	57.5	65.2	68.6	73.2	77.6	78.0	79.1	79.8	80.5	80.6	80.9	81.0	81.0	
GE 500		38.0	42.1	59.4	67.7	71.5	76.7	81.9	82.6	84.4	85.3	86.2	86.3	86.8	86.9	86.9	
GE 400		38.3	42.4	60.2	68.5	72.3	77.6	83.5	84.4	86.2	87.3	88.3	88.4	88.9	89.0	89.0	
GE 300		38.3	42.5	60.4	68.7	72.5	77.9	84.0	85.0	86.6	87.0	88.1	88.3	88.9	89.0	89.0	
GE 250		38.5	42.9	60.8	69.2	73.2	78.7	84.7	85.9	87.8	89.1	90.2	90.5	91.0	91.1	91.1	
GE 200		38.5	42.9	61.3	69.9	74.1	80.4	86.6	87.8	90.6	92.0	93.2	93.7	94.4	94.5	94.5	
GE 150		38.5	42.9	61.3	70.0	74.5	81.4	88.1	89.3	92.7	94.3	95.5	96.2	97.1	97.2	97.2	
GE 100		38.5	42.9	61.3	70.0	74.6	81.5	88.2	89.5	92.8	94.4	96.1	96.7	97.6	97.8	97.8	
GE 50		38.5	42.9	61.3	70.0	74.6	81.5	88.4	89.7	93.0	94.6	96.3	97.5	98.7	98.8	98.9	
GE 20		38.5	42.9	61.3	70.0	74.6	81.6	88.6	89.8	93.2	94.7	96.5	98.0	99.1	99.4	99.6	
GE 10		38.5	42.9	61.3	70.0	74.6	81.6	88.6	89.8	93.2	94.7	96.5	98.0	99.1	99.6	99.8	
GE 5		38.6	43.0	61.5	70.3	74.9	81.8	88.8	90.0	93.4	94.9	96.7	98.2	99.3	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		8.5	9.5	14.5	17.2	17.4	19.2	21.1	21.3	22.7	22.8	22.8	23.0	23.6	23.6	23.8
GE 2000		9.3	10.5	16.7	20.0	20.2	22.0	24.0	24.2	25.6	25.9	26.0	26.3	26.8	26.8	27.0
GE 1800		10.0	11.2	17.4	20.7	21.0	22.8	24.8	25.0	26.6	26.7	26.8	27.0	27.6	27.6	27.8
GE 1600		10.0	11.2	17.4	20.7	21.0	22.8	24.8	25.0	26.6	26.7	26.8	27.0	27.6	27.6	27.8
GE 1400		10.7	11.9	18.1	21.3	21.7	23.5	25.5	25.7	27.3	27.4	27.5	27.7	28.3	28.3	28.5
GE 1200		11.3	12.7	18.9	22.1	22.4	24.2	26.4	26.6	28.2	28.3	28.4	28.6	29.2	29.2	29.4
GE 1000		12.0	13.4	19.8	23.1	23.5	25.3	28.4	28.6	30.2	30.3	30.4	30.6	31.2	31.2	31.4
GE 900		12.1	13.5	19.9	23.2	23.6	25.4	28.5	28.7	30.3	30.4	30.5	30.8	31.3	31.3	31.5
GE 800		13.0	14.4	21.5	24.9	25.3	27.0	30.2	30.4	32.0	32.1	32.2	32.4	33.1	33.4	33.8
GE 700		14.8	16.2	23.8	27.5	27.9	29.7	33.1	33.3	34.9	35.0	35.1	35.4	36.0	36.4	36.7
GE 600		15.5	16.9	24.7	28.4	28.8	31.0	34.3	34.6	36.1	36.3	36.4	36.6	37.3	37.6	37.9
GE 500		16.3	17.8	25.6	29.4	30.2	32.4	35.9	36.1	37.7	37.8	37.9	38.2	38.8	39.2	39.5
GE 450		17.1	18.7	26.6	30.4	31.2	33.7	37.1	37.4	38.9	39.1	39.2	39.4	40.1	40.4	40.7
GE 400		19.8	21.5	30.0	33.8	34.6	37.0	40.5	40.7	42.3	42.4	42.5	42.8	43.4	43.8	44.1
GE 350		20.5	22.7	31.3	35.7	36.5	39.2	42.9	43.2	44.9	45.0	45.1	45.3	46.0	46.4	46.7
GE 300		22.4	25.0	34.5	39.1	40.0	43.4	47.6	48.0	49.7	49.8	49.9	50.5	51.2	51.5	51.9
GE 250		23.7	26.4	36.6	41.9	42.8	46.5	50.6	51.1	52.7	52.9	53.0	53.6	54.3	54.7	55.0
GE 200		27.8	31.3	44.0	50.6	51.6	56.6	61.4	61.8	63.5	63.6	63.7	64.5	65.2	65.5	65.9
GE 180		28.3	32.3	45.2	51.9	52.9	57.8	62.6	63.1	64.8	64.9	65.0	65.8	66.6	66.9	67.2
GE 150		29.6	33.8	48.1	55.1	56.2	62.1	67.5	68.0	70.0	70.1	70.3	71.0	71.8	72.2	72.5
GE 120		31.5	36.1	51.2	58.6	59.6	66.9	72.7	73.4	75.6	76.1	76.2	77.0	77.8	78.2	78.6
GE 100		31.9	36.5	52.4	60.6	62.6	70.1	77.0	77.7	80.7	81.1	81.3	82.0	82.9	83.4	83.7
GE 90		32.5	37.3	53.4	61.6	63.6	71.4	78.9	79.7	82.7	83.2	83.4	84.3	85.2	85.6	86.0
GE 80		32.5	37.4	53.6	62.1	64.1	72.1	79.7	80.6	83.8	84.5	85.2	86.1	87.0	87.4	87.6
GE 70		32.5	37.4	54.0	62.9	65.1	73.1	81.3	82.3	85.7	86.6	87.3	88.3	89.2	89.9	90.2
GE 60		32.5	37.5	54.1	63.0	65.3	73.5	82.0	83.1	87.7	88.6	89.2	90.3	91.2	91.9	92.3
GE 50		32.5	37.5	54.3	63.2	65.5	74.5	84.3	85.3	90.5	91.6	92.3	93.6	94.8	95.5	95.8
GE 40		32.5	37.5	54.3	63.2	65.5	74.5	84.4	85.4	91.0	92.1	92.9	94.3	95.7	96.4	96.9
GE 30		32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.6	92.9	93.9	95.5	97.0	97.6	98.1
GE 20		32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.0	99.4
GE 10		32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.1	99.7
GE 0		32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE U
NO CEIL		6.3	5.1	12.5	14.5	15.3	16.5	18.6	18.8	20.8	21.0	21.0	21.4	21.9	22.0	22.3
GE 2000		7.3	9.2	14.2	16.6	17.4	18.8	20.9	21.0	23.1	23.3	23.3	23.6	24.2	24.3	24.5
GE 1800		7.6	9.8	15.4	17.7	18.5	19.9	22.0	22.1	24.2	24.4	24.4	24.7	25.3	25.4	25.6
GE 1600		7.9	9.9	15.5	17.9	18.6	20.0	22.1	22.3	24.3	24.5	24.5	24.9	25.4	25.5	25.8
GE 1400		8.0	10.1	15.6	18.0	18.8	20.1	22.3	22.4	24.4	24.6	24.6	25.0	25.5	25.6	25.9
GE 1200		8.2	10.4	15.9	18.3	19.1	20.5	22.6	22.7	24.7	25.0	25.0	25.3	25.9	26.0	26.2
GE 1000		8.7	10.8	16.4	19.2	20.0	21.6	24.3	24.4	26.7	26.9	26.9	27.2	27.8	27.9	28.1
GE 900		9.2	11.3	16.6	19.7	20.5	22.0	24.7	24.9	27.1	27.3	27.3	27.7	28.2	28.4	28.6
GE 800		10.3	12.7	18.9	21.8	22.6	24.2	26.9	27.0	29.3	29.5	29.5	29.9	30.5	30.7	31.0
GE 700		11.6	14.2	21.0	24.1	25.1	27.0	29.7	29.8	32.1	32.3	32.3	32.8	33.3	33.6	33.8
GE 600		12.1	14.8	21.7	24.9	25.9	28.1	30.8	31.0	33.2	33.4	33.4	33.9	34.5	34.7	34.9
GE 500		12.8	15.6	22.9	26.4	27.5	29.8	33.0	33.1	35.4	35.6	35.7	36.2	36.7	36.9	37.2
GE 450		13.3	16.2	23.6	27.2	28.2	30.6	33.9	34.0	36.3	36.5	36.6	37.1	37.6	37.9	38.1
GE 400		17.2	20.0	27.9	31.8	32.8	35.1	38.5	38.6	41.0	41.2	41.4	41.8	42.4	42.6	42.8
GE 350		18.1	20.9	29.7	33.8	34.6	37.2	40.8	40.9	43.5	43.7	44.0	44.4	45.0	45.2	45.4
GE 300		20.0	23.5	33.2	37.6	38.6	41.5	45.3	45.4	48.0	48.2	48.5	48.9	49.5	49.8	50.1
GE 250		22.3	25.8	36.7	41.7	42.7	45.9	49.7	49.8	52.7	52.9	53.1	53.6	54.1	54.5	54.7
GE 200		25.4	29.4	42.4	48.6	49.9	53.6	57.9	58.1	60.9	61.1	61.5	61.9	62.5	62.8	63.1
GE 180		25.9	29.8	43.6	49.9	51.3	55.4	59.7	59.9	62.8	63.1	63.4	63.8	64.4	64.7	65.0
GE 150		27.5	31.5	46.8	53.7	55.1	60.1	64.9	65.2	68.5	68.9	69.4	69.8	70.4	70.7	71.0
GE 120		28.5	32.9	49.3	56.9	58.4	64.4	69.7	70.1	74.4	74.8	75.3	75.7	76.3	76.6	76.8
GE 100		29.0	33.7	50.8	59.0	60.8	67.6	73.9	74.4	79.4	79.9	80.3	80.8	81.4	81.7	81.9
GE 90		29.5	34.6	52.1	60.2	62.0	69.2	75.9	76.5	81.6	82.1	82.6	83.1	83.6	84.0	84.2
GE 80		29.8	34.9	53.2	61.7	63.5	71.0	77.7	78.4	83.7	84.3	85.0	85.4	86.1	86.4	86.7
GE 70		29.9	35.0	53.3	61.8	63.7	71.4	78.6	79.7	85.1	85.6	86.4	86.9	87.6	87.9	88.1
GE 60		29.9	35.0	53.3	61.8	63.7	72.0	79.4	80.2	86.4	87.3	88.4	88.8	89.5	89.8	90.1
GE 50		29.9	35.0	53.6	62.0	64.0	72.8	80.7	81.7	88.5	89.4	90.4	90.8	91.5	91.9	92.1
GE 40		29.9	35.0	53.6	62.0	64.0	73.6	82.0	83.1	90.8	91.8	93.1	93.6	94.2	94.7	94.9
GE 30		29.9	35.0	53.6	62.1	64.1	73.7	82.6	83.6	91.5	92.7	94.4	94.8	95.8	96.4	96.6
GE 20		29.9	35.0	53.6	62.1	64.1	73.7	82.6	83.7	91.9	93.0	94.6	95.5	97.2	98.0	98.5
GE 10		29.9	35.1	53.7	62.3	64.2	73.9	82.8	84.0	92.2	93.3	95.1	95.8	97.5	98.4	99.8
GE CL		29.9	35.1	53.7	62.3	64.2	73.9	82.8	84.0	92.2	93.3	95.1	95.9	97.7	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 805

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURPLY OBSERVATIONS

AIR WEATHER SERVICE/PAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 76-87

MONTH: JAN HOURS (LST): ALL

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		7.5	8.6	13.4	15.7	16.6	18.2	19.4	19.5	20.6	20.7	20.8	20.9	21.2	21.3	21.3
GE 20000		8.5	9.9	15.0	18.0	18.9	20.5	21.8	21.9	23.0	23.1	23.3	23.4	23.7	23.8	23.8
GE 18000		8.9	10.3	15.6	18.5	19.5	21.1	22.4	22.5	23.7	23.8	23.9	24.0	24.3	24.4	24.5
GE 16000		8.9	10.3	15.6	18.5	19.5	21.1	22.4	22.5	23.7	23.8	23.9	24.0	24.4	24.4	24.5
GE 14000		9.1	10.5	15.8	18.8	19.7	21.4	22.7	22.8	23.9	24.0	24.2	24.3	24.6	24.7	24.7
GE 12000		9.5	10.9	16.2	19.2	20.1	21.8	23.1	23.2	24.4	24.4	24.6	24.7	25.0	25.1	25.1
GE 10000		10.0	11.4	17.0	20.1	21.0	22.8	24.4	24.5	25.8	25.9	26.0	26.1	26.5	26.5	26.6
GE 9000		10.2	11.6	17.3	20.4	21.3	23.1	24.7	24.8	26.1	26.2	26.3	26.4	26.8	26.8	26.9
GE 8000		11.0	12.5	18.5	21.9	22.9	24.8	26.4	26.5	27.8	27.9	28.0	28.2	28.5	28.7	28.7
GE 7000		12.3	13.9	20.6	24.1	25.2	27.4	29.0	29.1	30.4	30.5	30.6	30.8	31.1	31.3	31.3
GE 6000		12.6	14.3	21.0	24.6	25.7	27.9	29.5	29.7	31.0	31.1	31.2	31.3	31.7	31.8	31.9
GE 5000		13.5	15.3	22.2	26.1	27.3	29.6	31.3	31.5	32.8	32.9	33.1	33.2	33.6	33.7	33.8
GE 4500		14.2	16.1	23.3	27.2	28.5	30.9	32.7	32.9	34.2	34.3	34.5	34.6	35.0	35.1	35.2
GE 4000		16.3	18.4	26.1	30.2	31.5	34.0	35.9	36.2	37.5	37.6	37.7	37.9	38.3	38.4	38.5
GE 3500		17.9	20.1	28.1	32.5	33.8	36.4	38.5	38.8	40.2	40.3	40.5	40.6	41.0	41.2	41.2
GE 3000		21.0	23.7	32.8	37.5	39.1	42.1	44.4	44.8	46.2	46.4	46.6	46.8	47.2	47.4	47.5
GE 2500		22.9	25.9	35.6	40.6	42.4	45.7	48.3	48.7	50.2	50.4	50.6	50.9	51.3	51.5	51.5
GE 2000		26.1	29.6	41.1	47.2	49.1	53.0	56.0	56.5	58.2	58.5	58.8	59.0	59.5	59.6	59.7
GE 1800		26.6	30.2	42.0	48.2	50.3	54.3	57.4	57.9	59.7	59.9	60.2	60.5	61.0	61.1	61.2
GE 1600		28.5	32.5	45.7	52.9	55.2	60.1	63.9	64.6	66.7	67.0	67.3	67.7	68.1	68.3	68.4
GE 1400		29.8	34.2	48.9	57.2	59.7	65.7	70.0	70.8	73.6	74.0	74.5	74.9	75.3	75.5	75.6
GE 1000		30.4	35.1	50.7	59.5	62.4	69.0	74.0	74.9	78.4	79.0	79.6	80.1	80.6	80.8	80.9
GE 900		30.6	35.7	51.7	60.7	63.6	70.5	75.8	76.8	80.6	81.3	81.9	82.4	83.0	83.2	83.2
GE 800		30.8	35.9	52.5	61.8	64.7	72.0	77.5	78.5	82.5	83.3	84.2	84.7	85.3	85.5	85.5
GE 700		30.9	36.1	52.9	62.4	65.4	73.0	78.9	80.1	84.5	85.3	86.3	86.9	87.6	87.8	87.9
GE 600		30.9	36.1	53.1	62.7	66.0	74.0	80.2	81.4	86.4	87.3	88.5	89.4	90.1	90.3	90.4
GE 500		30.9	36.2	53.3	63.1	66.5	75.0	81.6	83.0	88.5	89.6	91.0	92.1	93.1	93.3	93.4
GE 400		30.9	36.2	53.4	63.4	66.8	75.6	82.7	84.2	90.2	91.4	93.1	94.3	95.4	95.6	95.7
GE 300		31.0	36.2	53.4	63.5	66.9	75.8	83.1	84.6	90.9	92.2	94.1	95.6	96.8	97.2	97.3
GE 200		31.0	36.2	53.4	63.5	66.9	76.0	83.3	84.8	91.2	92.5	94.6	96.2	97.9	98.6	98.9
GE 100		31.0	36.2	53.4	63.5	67.0	76.0	83.3	84.9	91.4	92.7	94.9	96.4	98.2	99.1	99.8
GE 0		71.0	36.3	53.5	63.6	67.0	76.1	83.4	84.9	91.4	92.8	94.9	96.5	98.3	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 7063

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(1511): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 40	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	14.9	17.8	26.4	28.3	28.8	32.4	34.0	34.5	36.6	36.6	37.8	37.8	38.3	38.4	38.7	
GE 20000	15.7	19.0	27.8	30.0	30.6	34.5	36.3	36.8	38.9	38.9	40.1	40.1	40.5	40.7	40.9	
GE 18000	15.8	19.1	27.9	30.7	31.7	35.6	37.4	37.8	40.0	40.0	41.1	41.1	41.6	41.7	42.0	
GE 16000	15.8	19.1	27.9	30.7	31.7	35.6	37.4	37.8	40.0	40.0	41.1	41.1	41.6	41.7	42.0	
GE 14000	16.0	19.4	28.1	31.0	31.9	35.8	37.6	38.1	40.2	40.2	41.4	41.4	41.8	42.0	42.2	
GE 12000	16.0	19.4	28.1	31.3	32.3	36.2	38.2	38.7	40.8	40.8	42.0	42.0	42.4	42.6	42.6	
GE 10000	16.5	21.1	29.6	32.6	33.6	37.5	39.5	40.0	42.1	42.1	43.3	43.3	43.7	43.9	44.1	
GE 9000	16.5	21.1	29.6	32.6	33.6	37.5	39.5	40.0	42.1	42.1	43.3	43.3	43.7	43.9	44.1	
GE 8000	17.1	20.8	30.6	33.7	34.6	38.7	40.7	41.1	43.3	43.3	44.4	44.4	44.9	45.0	45.3	
GE 7000	17.6	21.3	31.4	34.5	35.5	39.6	41.6	42.1	44.2	44.2	45.4	45.4	45.9	46.0	46.2	
GE 6000	17.6	21.3	31.4	34.6	35.6	39.7	41.7	42.2	44.3	44.3	45.5	45.5	46.0	46.1	46.3	
GE 5000	17.6	21.3	31.4	34.8	35.8	40.0	42.2	42.7	45.4	45.4	46.7	46.7	47.2	47.3	47.5	
GE 4000	18.4	22.1	33.2	36.5	37.6	41.7	44.3	44.9	48.1	48.1	49.4	49.4	49.9	50.0	50.2	
GE 3500	19.0	23.0	34.6	38.2	39.2	43.4	46.0	46.6	49.8	49.8	51.1	51.1	51.5	51.9	52.1	
GE 3000	19.7	24.1	36.4	40.1	41.1	45.3	48.2	48.8	52.0	52.0	53.3	53.3	53.8	54.1	54.4	
GE 2500	21.2	25.7	40.2	44.0	45.2	49.9	54.3	54.8	58.4	58.4	59.7	59.7	60.2	60.5	60.8	
GE 2000	21.9	26.8	42.6	46.7	47.9	53.7	58.2	58.7	62.5	62.5	63.8	63.8	64.3	64.7	64.9	
GE 1800	23.4	28.6	46.7	51.5	52.7	59.1	63.8	64.5	68.8	68.8	70.1	70.1	70.6	70.9	71.2	
GE 1600	24.2	29.4	47.6	52.5	53.7	60.3	65.0	65.7	70.3	70.3	71.7	71.7	72.2	72.6	72.8	
GE 1400	25.3	30.5	51.2	56.7	57.9	64.6	69.7	70.4	75.1	75.2	76.6	76.6	77.1	77.4	77.7	
GE 1200	25.9	31.2	53.0	59.6	61.1	68.4	74.1	74.8	79.6	79.7	81.1	81.1	81.6	81.9	82.2	
GE 1000	26.0	31.3	53.8	61.1	62.8	70.9	77.2	78.0	83.1	83.3	85.0	85.0	85.5	85.8	86.1	
GE 900	26.0	31.4	54.1	61.7	63.4	71.5	77.8	78.6	83.7	83.9	85.6	85.6	86.1	86.4	86.9	
GE 800	26.1	32.0	54.6	62.4	64.1	72.6	79.0	79.8	85.0	85.2	86.9	86.9	87.5	87.8	88.4	
GE 700	26.1	32.0	54.6	62.5	64.2	73.3	79.9	80.7	85.9	86.2	87.8	87.8	88.5	88.9	89.6	
GE 600	26.1	32.0	54.6	62.5	64.2	73.5	80.4	81.2	86.6	87.0	88.7	88.7	89.4	89.7	90.4	
GE 500	26.1	32.2	55.1	63.0	64.7	74.7	81.4	82.3	88.1	88.4	90.1	90.1	91.4	91.7	92.4	
GE 400	26.1	32.2	55.3	63.4	65.0	74.5	81.8	82.9	88.8	89.1	91.0	91.0	92.3	92.7	93.4	
GE 300	26.1	32.2	55.3	63.4	65.0	74.6	81.9	83.2	89.5	89.8	91.8	92.6	94.2	94.6	95.3	
GE 200	26.1	32.2	55.3	63.4	65.0	74.6	82.0	83.3	89.6	90.1	92.1	92.8	95.0	95.4	97.0	
GE 100	26.1	32.2	55.3	63.4	65.0	74.6	82.2	83.5	89.7	90.2	92.2	93.0	95.6	96.0	99.4	
GE 0	26.1	32.2	55.3	63.4	65.0	74.6	82.2	83.5	89.8	90.3	92.3	93.1	95.7	96.2	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 76-87
MONTH: FEB HOURS/IST: 0300-0500

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.8	10.4	22.0	25.1	25.0	29.2	31.0	31.2	34.4	34.5	35.1	35.3	35.5	35.6	35.8
GE 20000		14.5	18.0	24.8	27.3	28.0	31.9	33.9	34.2	37.4	37.5	38.1	38.3	38.4	38.5	38.8
GE 18000		14.7	18.1	24.9	27.8	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7
GE 16000		14.7	18.1	24.9	27.6	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7
GE 14000		14.7	18.1	24.9	27.8	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7
GE 12000		14.7	18.2	25.2	28.0	29.2	33.1	35.1	35.3	38.5	38.7	39.2	39.5	39.6	39.7	40.0
GE 10000		15.6	19.3	26.6	29.6	30.7	34.8	36.8	37.0	40.2	40.3	40.9	41.1	41.3	41.4	41.6
GE 9000		15.6	19.3	26.8	29.8	31.0	35.0	37.0	37.2	40.4	40.5	41.1	41.4	41.5	41.7	42.0
GE 8000		15.7	19.4	27.1	30.0	31.2	35.5	37.6	37.8	41.0	41.1	41.7	42.0	42.1	42.3	42.6
GE 7000		16.2	19.9	27.7	30.6	31.8	36.1	38.2	38.4	41.8	42.0	42.6	42.8	42.9	43.1	43.4
GE 6000		16.2	19.9	27.7	30.6	31.8	36.2	38.3	38.5	42.0	42.1	42.7	42.9	43.0	43.3	43.5
GE 5000		16.7	20.6	28.6	31.6	33.0	37.5	39.8	40.1	43.9	44.0	44.6	44.8	44.9	45.2	45.4
GE 4500		16.9	20.8	30.1	33.2	34.6	39.1	41.6	42.1	46.0	46.1	46.7	46.9	47.0	47.3	47.5
GE 4000		18.1	22.5	33.0	36.4	37.8	42.3	45.2	45.6	49.8	49.9	50.5	50.7	50.8	51.1	51.3
GE 3500		18.3	22.8	33.8	37.4	38.8	43.5	46.5	46.9	51.1	51.2	51.8	52.0	52.1	52.4	52.6
GE 3000		20.2	25.2	37.5	41.4	42.6	47.8	51.2	51.7	56.1	56.3	56.9	57.1	57.2	57.4	57.7
GE 2500		20.4	25.4	38.8	43.5	44.9	50.6	54.1	54.6	59.5	59.6	60.2	60.4	60.5	60.8	61.0
GE 2000		22.0	27.2	42.6	47.9	49.4	55.8	60.2	60.6	65.6	65.8	66.5	66.8	67.0	67.3	67.5
GE 1800		22.9	28.4	44.1	49.5	51.1	57.4	61.8	62.4	67.6	67.8	68.6	68.8	69.0	69.3	69.5
GE 1500		24.6	30.5	47.9	53.8	55.6	62.2	67.0	67.6	72.8	73.0	73.8	74.0	74.2	74.5	74.7
GE 1200		24.8	31.0	50.6	57.3	59.7	67.1	72.8	73.4	79.0	79.2	79.9	80.1	80.4	80.6	80.9
GE 1000		25.2	31.3	52.2	59.2	61.6	69.7	75.9	76.7	82.7	83.1	83.9	84.2	84.4	84.6	84.9
GE 900		25.2	31.4	52.5	59.5	61.8	70.2	76.4	77.3	83.3	83.7	84.5	84.8	85.0	85.2	85.5
GE 800		25.5	31.8	52.8	60.0	62.6	71.3	77.4	78.4	84.5	84.9	85.7	85.9	86.2	86.4	86.6
GE 700		25.5	31.8	52.8	60.3	62.9	72.2	78.5	79.4	85.9	86.3	87.1	87.4	87.7	88.1	88.3
GE 600		25.5	31.8	52.8	60.3	63.0	72.6	78.8	80.0	86.5	86.9	87.7	87.9	88.3	88.7	88.9
GE 500		25.5	31.8	53.1	60.6	63.4	72.9	79.3	80.5	87.4	87.8	88.6	89.0	89.6	90.1	90.3
GE 400		25.5	31.8	53.1	60.8	63.5	73.0	79.7	80.9	87.8	88.3	89.6	90.0	90.5	91.0	91.3
GE 300		25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.4	88.8	89.4	91.0	91.5	92.8	93.4	93.9
GE 200		25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.6	88.9	89.5	91.3	92.4	94.2	95.5	96.5
GE 100		25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.6	88.9	89.6	91.4	92.6	94.7	96.1	98.9
GE 0		25.5	31.8	53.1	60.8	63.5	73.3	80.3	81.7	89.0	89.7	91.5	92.7	95.0	96.6	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB FOUR(SLS): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	9.3	12.6	17.8	21.7	22.7	25.7	28.1	28.3	29.0	29.6	30.1	30.4	30.6	30.6	30.6	30.6
GE 20000	10.0	15.8	19.0	23.3	24.5	27.7	30.5	30.7	32.0	32.6	33.2	33.5	33.7	33.7	33.7	33.7
GE 18000	10.2	14.1	19.4	23.9	25.1	28.6	31.6	31.8	33.1	33.7	34.3	34.5	34.8	34.8	34.8	34.8
GE 16000	10.3	14.2	19.5	24.0	25.2	28.7	31.7	31.9	33.2	33.8	34.4	34.6	34.9	34.9	34.9	34.9
GE 14000	10.3	14.2	19.5	24.0	25.2	28.7	31.7	31.9	33.3	33.9	34.5	34.8	35.0	35.0	35.0	35.0
GE 12000	10.5	14.4	19.9	24.3	25.7	29.2	32.2	32.4	33.8	34.4	35.0	35.2	35.5	35.5	35.5	35.5
GE 10000	11.2	15.1	20.9	25.5	26.8	30.4	33.6	33.8	35.2	35.8	36.4	36.6	37.1	37.1	37.1	37.1
GE 9000	11.2	15.1	21.0	25.7	27.1	30.6	33.9	34.3	35.9	36.5	37.1	37.4	37.8	37.8	37.8	37.8
GE 8000	11.5	15.5	21.6	26.2	27.7	31.3	34.6	35.1	36.9	37.5	38.1	38.3	38.8	38.8	38.8	38.8
GE 7000	11.9	16.1	22.2	27.0	28.6	32.3	35.6	36.2	38.4	39.0	39.6	39.8	40.3	40.4	40.4	40.4
GE 6000	11.9	16.1	22.2	27.0	28.6	32.3	35.6	36.2	38.4	39.0	39.6	39.8	40.3	40.4	40.4	40.4
GE 5000	12.2	16.4	22.7	27.8	29.4	33.1	36.4	37.0	39.5	40.1	40.7	40.9	41.4	41.5	41.5	41.5
GE 4500	12.8	17.0	24.3	30.3	31.9	35.9	39.5	40.1	42.8	43.4	44.0	44.2	44.8	44.9	44.9	44.9
GE 4000	13.9	18.4	26.6	33.0	34.6	39.1	42.9	43.5	46.2	46.8	47.4	47.6	48.2	48.3	48.3	48.3
GE 3500	14.1	18.6	27.2	33.9	35.9	40.4	44.7	45.4	48.2	49.1	49.6	49.9	50.5	50.6	50.6	50.6
GE 3000	16.5	21.2	30.3	37.4	39.5	44.1	48.7	49.5	52.6	53.4	54.0	54.3	55.2	55.3	55.3	55.3
GE 2500	16.9	21.6	31.7	39.4	41.5	46.7	51.3	52.1	55.2	56.0	56.6	56.9	57.8	57.9	57.9	57.9
GE 2000	18.1	23.3	34.6	42.8	45.3	51.3	56.0	56.9	60.4	61.2	61.8	62.1	63.0	63.1	63.1	63.1
GE 1800	18.3	23.6	35.6	43.9	46.3	52.1	57.3	58.2	61.7	62.5	63.1	63.4	64.3	64.4	64.4	64.4
GE 1500	20.1	25.5	39.5	48.8	51.9	59.0	64.5	65.4	69.0	69.9	70.4	70.7	71.7	71.9	71.9	71.9
GE 1200	20.6	26.1	42.0	52.5	55.9	64.1	70.2	71.3	75.2	76.0	76.7	77.0	78.1	78.3	78.3	78.3
GE 1000	20.7	26.5	42.7	53.3	57.0	65.7	72.7	74.0	78.5	79.7	80.5	80.9	82.0	82.2	82.2	82.2
GE 900	20.8	26.6	42.8	53.4	57.1	65.8	73.0	74.3	78.8	80.4	81.2	81.7	82.9	83.0	83.0	83.0
GE 800	20.8	26.6	42.8	53.9	57.6	66.4	73.8	75.1	79.6	81.6	82.4	82.9	84.0	84.2	84.2	84.2
GE 700	20.8	26.6	43.0	54.5	58.3	67.4	74.7	76.0	80.5	82.5	83.3	83.9	85.2	85.3	85.3	85.3
GE 600	20.8	26.6	43.0	54.7	58.7	68.2	75.5	77.0	81.6	83.7	84.5	85.1	86.4	86.5	86.5	86.5
GE 500	20.9	26.7	43.1	55.0	59.1	68.9	77.0	78.6	83.6	85.9	86.8	87.4	88.8	88.9	88.9	88.9
GE 450	20.9	26.7	43.3	55.1	59.2	69.1	77.7	79.6	85.0	87.6	88.6	89.4	91.0	91.1	91.1	91.1
GE 400	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.3	86.1	88.7	90.3	91.0	93.1	93.6	93.9	93.9
GE 300	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	90.9	92.4	95.3	96.6	97.4	97.4
GE 200	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	91.1	92.9	96.1	97.5	99.6	99.6
GE 0	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	91.1	92.9	96.1	97.6	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 HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		9.6	11.6	19.3	23.5	25.4	27.3	29.2	29.9	30.9	31.2	31.6	31.6	31.8	31.8	31.8	
GE 2000		10.4	12.4	20.8	25.4	27.5	30.1	32.3	33.0	34.3	34.6	35.1	35.1	35.3	35.3	35.3	
GE 1800		11.5	13.5	22.3	27.0	29.1	31.9	34.2	34.9	36.2	36.5	37.0	37.0	37.2	37.2	37.2	
GE 1600		11.9	13.9	22.8	27.4	29.6	32.4	34.6	35.3	36.6	37.0	37.5	37.5	37.7	37.7	37.7	
GE 1400		12.1	14.1	22.9	27.8	29.9	32.7	35.0	35.7	37.0	37.4	37.8	37.8	38.1	38.1	38.1	
GE 1200		12.3	14.3	23.2	28.0	30.1	33.0	35.2	35.9	37.4	37.7	38.2	38.2	38.4	38.4	38.4	
GE 1000		12.5	14.5	23.8	28.6	30.7	33.8	36.4	37.1	38.8	39.1	39.7	39.7	40.0	40.0	40.0	
GE 900		12.5	14.5	23.8	28.6	30.7	34.0	36.6	37.4	39.1	39.5	40.1	40.1	40.3	40.3	40.3	
GE 800		13.5	15.6	25.1	29.9	32.0	35.6	38.2	38.9	40.7	41.0	41.6	41.6	42.0	42.0	42.0	
GE 700		14.2	16.3	25.8	30.7	32.9	36.4	39.2	40.1	42.2	42.6	43.1	43.1	43.5	43.5	43.5	
GE 600		14.2	16.3	25.8	30.9	33.0	36.5	39.4	40.2	42.4	42.8	43.4	43.5	43.9	43.9	43.9	
GE 500		15.0	17.1	27.0	32.3	34.5	38.1	40.9	41.7	44.0	44.3	44.9	45.0	45.4	45.4	45.4	
GE 450		15.2	17.7	28.3	33.8	36.2	40.0	42.8	43.7	46.0	46.3	46.9	47.0	47.4	47.4	47.4	
GE 400		16.4	19.3	30.3	36.5	39.2	43.0	45.9	46.8	49.1	49.5	50.1	50.6	50.9	50.9	50.9	
GE 350		17.0	19.9	31.0	37.4	40.1	44.0	47.0	48.0	50.7	51.2	51.8	52.2	52.6	52.6	52.6	
GE 300		19.0	22.0	33.8	41.0	44.0	48.5	51.9	53.1	56.0	56.7	57.3	57.8	58.2	58.2	58.2	
GE 2500		19.9	23.0	35.9	43.9	47.2	51.7	55.2	56.4	59.3	60.0	60.6	61.1	61.5	61.5	61.5	
GE 2000		21.6	24.9	38.4	46.6	50.2	54.8	58.9	60.2	63.5	64.4	65.1	65.6	66.0	66.0	66.0	
GE 1800		21.9	25.2	39.0	47.8	51.4	56.0	60.0	61.3	64.7	65.6	66.3	66.8	67.1	67.1	67.1	
GE 1500		23.5	27.3	42.1	51.5	55.2	62.1	66.3	67.6	71.0	72.0	72.8	73.3	73.8	73.8	73.8	
GE 1200		24.3	28.5	44.9	55.2	59.0	66.4	71.3	72.6	76.5	77.4	78.3	78.7	79.2	79.2	79.2	
GE 1000		24.8	29.4	46.8	57.3	61.5	69.3	74.8	76.4	80.7	82.0	83.6	84.3	84.9	84.8	84.8	
GE 900		24.8	29.4	47.0	57.9	62.1	70.3	75.9	77.4	81.8	83.2	85.1	85.9	86.4	86.4	86.4	
GE 800		24.9	29.6	47.3	58.2	62.6	71.2	77.0	78.5	83.1	84.5	86.4	87.4	88.1	88.1	88.1	
GE 700		24.9	29.6	47.3	58.5	63.1	71.9	77.8	79.4	84.2	85.7	87.9	89.0	89.7	89.7	89.7	
GE 600		24.9	29.6	47.3	58.9	63.6	72.7	78.6	80.6	85.7	87.2	89.5	90.7	91.5	91.5	91.5	
GE 500		24.9	29.6	47.3	59.0	63.7	72.9	79.6	81.3	87.1	89.0	91.6	92.8	93.6	93.6	93.6	
GE 450		24.9	29.6	47.3	59.0	63.8	73.0	79.9	81.7	87.9	90.0	92.9	94.1	95.0	95.2	95.3	
GE 400		24.9	29.6	47.3	59.0	63.6	73.0	80.0	81.8	88.3	90.5	93.6	94.9	96.3	96.6	96.9	
GE 300		24.9	29.6	47.3	59.0	63.6	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.6	98.7	99.2	
GE 100		24.9	29.6	47.3	59.0	63.6	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.8	98.8	99.8	
GE CI		24.9	29.6	47.3	59.0	63.8	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.8	98.8	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	GE 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	1	18.9	22.6	29.3	31.7	32.3	33.5	34.6	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 20000		20.6	24.6	32.6	35.3	35.9	37.1	38.3	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 18000		21.5	25.8	34.3	37.0	37.6	39.1	40.3	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 16000		21.9	26.1	34.6	37.4	37.9	39.5	40.7	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 14000		22.0	26.2	35.1	37.8	38.4	40.0	41.1	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 12000		22.5	26.8	35.7	38.5	39.1	40.8	42.0	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 10000		23.9	28.3	37.4	40.4	41.0	43.0	44.3	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 9000		24.1	28.5	37.6	40.7	41.3	43.3	44.6	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
GE 8000		24.6	29.0	38.3	41.7	42.3	45.0	46.3	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 7000		25.7	30.3	39.7	43.4	44.0	46.7	48.1	48.2	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 6000		25.7	30.3	39.7	43.5	44.1	46.8	48.2	48.3	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 5000		27.1	31.7	41.4	45.2	45.7	48.5	50.2	50.4	50.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 4500		27.9	32.2	43.1	46.9	47.5	50.4	52.2	52.4	52.8	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 4000		29.7	35.0	46.0	50.4	51.2	54.1	56.0	56.3	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 3500		31.1	36.4	47.4	52.4	53.5	56.5	58.4	58.6	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 3000		33.6	39.1	50.7	56.0	57.4	61.0	63.7	64.1	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 2500		35.0	40.5	53.0	58.6	60.0	63.6	66.4	66.8	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 2000		37.0	42.6	55.9	61.8	63.4	67.1	70.7	71.3	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 1800		37.6	43.1	56.7	62.8	64.3	68.1	71.6	72.3	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 1500		39.1	44.7	58.6	65.7	67.4	71.6	76.0	76.8	78.0	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 1200		39.8	45.9	60.4	68.9	71.2	75.5	80.0	80.9	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 1000		40.1	46.5	62.2	72.0	74.7	80.0	84.6	85.6	87.2	87.6	87.6	87.6	87.7	87.9	87.9	87.9
GE 900		40.1	46.5	62.3	72.5	75.2	80.9	85.6	86.5	88.3	88.8	88.8	88.8	88.9	89.1	89.1	89.1
GE 800		40.1	46.5	62.5	73.2	75.9	81.6	86.8	87.8	90.0	90.4	90.4	90.4	90.5	90.8	90.8	90.8
GE 700		40.1	46.5	62.5	73.3	76.0	81.7	87.1	88.3	90.5	91.3	91.5	91.5	91.6	92.2	92.2	92.2
GE 600		40.1	46.5	62.6	73.8	76.6	82.4	88.3	89.5	92.3	93.1	93.4	93.6	94.2	94.2	94.2	94.2
GE 500		40.1	46.5	62.8	74.0	77.0	83.5	90.2	91.6	94.9	95.9	96.5	96.7	97.5	97.5	97.5	97.5
GE 400		40.1	46.5	62.8	74.0	77.0	83.6	90.4	91.8	95.6	96.6	97.2	97.8	98.6	98.6	98.6	98.6
GE 300		40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.0	95.7	97.0	97.6	98.3	99.2	99.2	99.2	99.2
GE 200		40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	100.0	100.0
GE 100		40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	100.0	100.0
GE 0		40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	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 HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFH

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		23.4	26.0	31.7	34.2	34.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
GE 20000		25.3	28.0	35.2	37.8	38.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
GE 18000		26.1	29.0	36.4	39.0	39.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	
GE 16000		26.5	29.3	36.8	39.4	40.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	
GE 14000		26.7	29.6	37.0	39.6	40.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	
GE 12000		27.7	30.5	37.9	40.5	41.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	
GE 10000		29.4	32.6	40.2	42.8	43.5	45.0	45.0	45.0	45.2	45.2	45.3	45.3	45.3	45.3	45.3	
GE 9000		29.7	32.9	40.8	43.4	44.1	45.6	45.6	45.6	45.7	45.7	45.9	45.9	45.9	45.9	45.9	
GE 8000		30.4	33.7	41.7	45.0	46.1	48.5	48.6	48.6	48.8	48.8	48.9	48.9	48.9	48.9	48.9	
GE 7000		31.3	35.1	44.6	47.4	48.6	51.1	51.5	51.5	51.8	52.1	52.2	52.2	52.2	52.2	52.2	
GE 6000		31.4	35.2	44.3	48.1	49.3	51.8	52.2	52.2	52.5	52.8	53.0	53.0	53.0	53.0	53.0	
GE 5000		32.2	35.9	45.0	48.8	50.0	52.5	53.1	53.1	53.3	53.7	53.8	53.8	53.8	53.8	53.8	
GE 4500		33.1	36.9	46.3	50.1	51.3	53.9	54.5	54.5	54.7	55.1	55.2	55.2	55.2	55.2	55.2	
GE 4000		35.9	40.1	50.0	54.1	55.4	58.3	59.1	59.1	59.3	59.7	59.8	59.8	59.8	59.8	59.8	
GE 3500		27.7	41.8	51.9	56.9	58.2	61.1	61.9	61.9	62.4	62.8	62.9	62.9	62.9	62.9	62.9	
GE 3000		41.6	46.0	57.1	62.6	64.1	67.6	68.6	68.6	69.4	69.7	69.9	69.9	69.9	69.9	69.9	
GE 2500		42.4	46.9	58.9	64.9	66.3	69.9	71.0	71.0	71.6	72.0	72.1	72.1	72.1	72.1	72.1	
GE 2000		43.1	48.0	60.6	67.8	69.5	73.4	75.3	75.5	76.4	77.1	77.2	77.2	77.2	77.2	77.2	
GE 1800		43.3	48.1	60.8	68.1	69.7	73.9	75.8	76.0	76.8	77.5	77.7	77.7	77.7	77.7	77.7	
GE 1500		44.0	48.9	62.2	70.6	72.7	77.5	79.8	80.1	81.1	81.8	82.0	82.2	82.2	82.2	82.2	
GE 1200		44.7	49.8	63.9	73.5	75.7	80.7	83.9	84.3	85.3	86.1	86.4	86.5	86.5	86.5	86.5	
GE 1000		45.2	50.4	65.6	75.8	78.0	83.3	86.6	87.1	88.4	89.1	89.7	89.8	89.8	89.8	89.8	
GE 900		45.2	50.4	65.6	75.4	78.1	83.5	87.0	87.5	89.0	89.7	90.3	90.4	90.4	90.4	90.4	
GE 800		45.2	50.4	65.6	76.2	78.6	84.4	88.2	89.8	90.3	91.0	91.6	91.7	91.8	91.8	91.8	
GE 700		45.2	50.4	66.1	77.0	79.3	85.1	89.2	90.0	91.6	92.4	93.1	93.3	93.7	93.9	93.9	
GE 600		45.2	50.4	66.1	77.1	79.4	85.5	89.7	90.7	92.3	93.1	93.9	94.1	94.6	94.7	94.7	
GE 500		45.2	50.4	66.5	77.5	80.3	86.8	91.6	92.6	94.2	95.3	96.5	96.8	97.4	97.5	97.5	
GE 400		45.2	50.4	66.5	77.5	80.3	86.8	91.6	92.6	94.6	95.7	97.2	97.5	98.5	98.6	98.6	
GE 300		45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.2	99.3	99.4	
GE 200		45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.4	99.5	99.6	
GE 100		45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.5	99.6	100.0	
GE 0		45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.5	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		20.0	24.6	31.4	34.6	35.2	37.0	37.5	37.6	38.2	38.3	38.5	38.5	38.8	38.8	36.9	
GE 20000		20.6	25.7	33.7	37.1	37.7	39.6	40.3	40.4	41.0	41.1	41.4	41.4	41.6	41.6	41.7	
GE 18000		21.0	26.2	35.0	38.4	39.0	40.9	41.6	41.7	42.3	42.4	42.7	42.7	42.9	42.9	43.0	
GE 16000		21.0	26.2	35.0	38.4	39.0	40.9	41.6	41.7	42.3	42.4	42.7	42.7	42.9	42.9	43.0	
GE 14000		21.3	26.5	35.2	38.8	39.4	41.3	42.1	42.2	42.8	42.9	43.1	43.1	43.4	43.4	43.5	
GE 12000		21.7	27.0	35.7	39.2	39.8	41.7	42.6	42.7	43.3	43.4	43.6	43.6	43.9	43.9	44.0	
GE 10000		21.7	27.0	35.6	40.2	40.8	42.8	43.6	43.7	44.3	44.4	44.7	44.7	44.9	44.9	45.0	
GE 9000		22.0	27.3	36.5	41.0	41.6	43.6	44.4	44.6	45.2	45.3	45.5	45.5	45.9	45.9	46.0	
GE 8000		22.6	27.9	37.1	41.6	42.2	44.7	45.7	45.9	46.6	46.8	47.0	47.0	47.4	47.4	47.5	
GE 7000		22.9	28.3	38.1	42.7	43.3	45.9	47.0	47.2	47.9	48.1	48.3	48.5	48.8	48.8	48.9	
GE 6000		22.9	28.3	38.1	42.7	43.3	46.0	47.2	47.3	48.0	48.2	48.5	48.6	48.9	48.9	49.1	
GE 5000		23.3	29.0	38.8	43.7	44.3	47.0	48.2	48.3	49.1	49.3	49.5	49.6	50.0	50.0	50.1	
GE 4500		24.2	30.1	41.3	46.6	47.2	50.4	51.7	51.8	52.5	52.7	53.0	53.1	53.4	53.4	53.5	
GE 4000		25.1	31.1	42.8	48.5	49.1	53.1	54.5	54.6	55.3	55.6	55.8	56.0	56.5	56.5	56.6	
GE 3500		26.5	32.5	44.9	50.6	51.3	55.4	57.2	57.3	58.0	58.3	58.5	59.0	59.5	59.5	59.6	
GE 3000		28.1	34.5	48.1	54.7	55.9	60.4	62.5	62.8	63.6	64.1	64.5	65.0	65.5	65.5	65.6	
GE 2500		29.3	35.7	50.1	57.4	58.6	63.6	65.6	66.1	67.1	67.4	67.8	68.3	68.8	68.8	68.9	
GE 2000		31.1	37.8	52.5	60.8	62.5	68.6	71.5	72.0	73.3	73.5	74.2	74.8	75.3	75.3	75.4	
GE 1800		31.1	38.1	52.8	61.2	63.1	69.1	72.2	72.7	74.2	74.5	75.2	75.8	76.2	76.2	76.4	
GE 1500		32.0	39.2	54.8	63.9	66.0	72.3	76.6	77.1	78.7	79.0	79.7	80.3	80.7	80.7	80.9	
GE 1200		32.4	39.8	56.3	66.0	68.2	75.1	79.8	80.4	83.1	83.3	84.2	84.9	85.3	85.3	85.5	
GE 1000		33.0	40.5	57.6	68.1	70.4	78.1	83.3	84.2	87.0	87.2	88.1	88.8	89.5	89.5	89.6	
GE 900		33.0	40.5	57.6	68.1	70.4	78.1	83.5	84.3	87.1	87.4	88.2	88.9	89.6	89.6	89.7	
GE 800		33.0	40.5	57.6	68.3	70.7	78.5	83.8	84.6	87.7	88.1	88.9	89.6	90.4	90.4	90.5	
GE 700		33.0	40.5	58.2	68.7	71.2	79.1	84.5	85.6	88.8	89.4	90.2	90.9	92.1	92.1	92.2	
GE 600		33.0	40.5	58.2	68.8	71.3	79.2	85.2	86.4	89.8	90.5	91.6	92.7	93.9	93.9	94.0	
GE 500		33.0	40.5	58.4	69.0	71.5	79.6	86.2	87.4	90.8	91.5	92.9	94.0	95.2	95.2	95.3	
GE 400		33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.2	91.6	92.3	93.7	95.6	97.2	97.2	97.3	
GE 300		33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	91.8	92.6	94.2	96.1	97.6	97.8	98.2	
GE 200		33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.0	98.5	99.1	
GE 100		33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.1	98.6	99.8	
GE 0		33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.1	98.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAF/AC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
NO CEIL	16.1	20.8	28.0	31.1	31.7	34.9	35.8	36.1	36.9	37.0	37.7	37.7	37.9	37.9	38.3	
GE 20000	16.7	21.4	29.3	32.4	33.0	36.3	37.2	37.5	38.3	38.4	39.1	39.1	39.4	39.4	39.7	
GE 18000	16.7	21.4	29.6	32.7	33.3	36.6	37.6	37.8	38.7	38.8	39.5	39.5	39.7	39.7	40.1	
GE 16000	16.7	21.4	29.6	32.7	33.3	36.6	37.6	37.8	38.8	38.9	39.6	39.6	39.8	39.8	40.2	
GE 14000	16.7	21.4	29.7	33.1	33.7	37.0	37.9	38.2	39.1	39.2	40.0	40.0	40.2	40.2	40.5	
GE 12000	16.8	21.5	30.1	33.7	34.3	37.6	38.8	39.0	40.0	40.1	40.8	40.8	41.0	41.0	41.4	
GE 10000	16.9	22.1	30.9	34.5	35.1	38.8	40.1	40.3	41.3	41.4	42.1	42.1	42.3	42.3	42.7	
GE 9000	17.1	22.3	31.2	35.0	35.6	39.2	40.5	40.8	41.7	41.8	42.6	42.6	42.8	42.8	43.1	
GE 8000	17.6	22.8	32.0	35.8	36.4	40.2	41.5	41.7	42.7	42.8	43.5	43.5	43.7	43.7	44.1	
GE 7000	18.3	23.5	33.2	37.0	37.6	41.6	42.9	43.1	44.1	44.2	44.9	45.0	45.3	45.3	45.6	
GE 6000	18.3	23.5	33.2	37.0	37.6	41.6	42.9	43.1	44.2	44.3	45.0	45.2	45.4	45.4	45.9	
GE 5000	19.0	24.2	34.2	38.1	38.7	42.7	44.3	44.6	45.6	45.7	46.6	46.7	46.9	46.9	47.4	
GE 4500	19.9	25.1	36.1	40.1	40.7	45.0	46.9	47.2	48.2	48.3	49.2	49.3	49.5	49.5	50.0	
GE 4000	20.3	25.8	37.7	42.0	42.6	47.4	49.4	49.6	50.8	50.9	51.8	51.9	52.4	52.5	53.0	
GE 3500	21.2	26.7	39.5	44.1	44.7	49.6	51.8	52.0	53.2	53.3	54.1	54.3	54.7	54.8	55.3	
GE 3000	23.2	29.1	44.4	49.9	50.6	56.1	58.7	59.0	60.5	60.6	61.5	61.6	62.1	62.2	62.6	
GE 2500	24.0	30.3	46.8	52.8	53.7	59.8	62.5	62.9	64.4	64.5	65.4	65.5	66.0	66.1	66.5	
GE 2000	25.5	32.0	49.8	56.3	57.3	64.3	67.6	68.6	70.6	70.7	71.5	71.6	72.1	72.2	72.7	
GE 1800	25.5	32.3	50.4	57.1	58.2	65.2	68.6	69.5	71.6	71.9	72.7	72.8	73.3	73.4	73.9	
GE 1500	27.0	34.0	53.9	61.7	63.0	70.8	74.7	75.7	78.1	78.5	79.3	79.4	79.9	80.0	80.5	
GE 1000	27.3	34.4	55.6	64.1	65.4	73.2	77.5	78.7	81.3	81.7	82.5	82.6	83.1	83.2	83.7	
GE 1000	27.5	34.6	56.5	65.6	66.9	75.5	80.0	81.3	84.4	84.8	85.6	85.7	86.3	86.5	87.0	
GE 900	27.5	34.6	56.5	65.7	67.0	75.9	80.4	81.7	84.8	85.1	85.9	86.1	86.8	87.0	87.6	
GE 800	27.5	34.6	56.6	65.8	67.1	76.0	80.5	81.8	85.3	85.7	86.5	86.8	87.5	87.7	88.3	
GE 700	27.5	34.6	56.6	65.8	67.1	76.6	81.3	82.6	86.2	86.5	87.4	87.6	88.7	88.9	89.5	
GE 600	27.5	34.6	56.7	66.0	67.3	77.1	82.4	83.9	87.8	88.2	89.2	89.5	90.8	91.0	91.6	
GE 500	27.5	34.6	56.7	66.0	67.3	77.1	82.6	84.2	88.4	88.8	90.1	90.3	91.6	91.8	92.4	
GE 400	27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.1	89.8	90.2	91.5	92.2	93.9	94.1	94.7	
GE 300	27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.1	90.5	91.8	92.7	94.3	94.6	95.3	
GE 200	27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	93.7	95.9	96.2	97.3	
GE 100	27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	94.2	96.2	96.8	99.1	
GE 0	27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	94.2	96.3	96.9	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0	
NO CEIL	15.8	19.1	25.8	28.8	29.6	32.0	33.3	33.5	34.6	34.8	35.2	35.3	35.5	35.5	35.6		
GE 20000	16.8	20.4	27.9	31.1	32.0	34.6	36.1	36.3	37.5	37.7	38.2	38.2	38.4	38.4	38.5		
GE 18000	17.2	20.9	28.7	32.1	33.1	35.8	37.3	37.6	38.7	38.9	39.4	39.4	39.6	39.6	39.7	39.8	
GE 16000	17.3	21.1	28.9	32.2	33.2	36.0	37.5	37.7	38.9	39.1	39.6	39.6	39.8	39.8	39.8	40.0	
GE 14000	17.4	21.2	29.1	32.5	33.5	36.2	37.7	38.0	39.2	39.4	39.8	39.9	40.1	40.1	40.1	40.2	
GE 12000	17.8	21.5	29.5	33.0	34.0	36.7	38.3	38.6	39.8	40.0	40.4	40.5	40.7	40.7	40.7	40.8	
GE 10000	18.5	22.4	30.6	34.3	35.3	38.3	39.9	40.2	41.4	41.6	42.1	42.2	42.4	42.4	42.5		
GE 9000	18.6	22.5	30.9	34.6	35.6	38.6	40.3	40.6	41.9	42.1	42.6	42.6	42.9	42.9	43.0		
GE 8000	19.1	23.1	31.7	35.5	36.6	39.9	41.7	41.9	43.4	43.5	44.0	44.1	44.3	44.4	44.5		
GE 7000	19.8	23.8	32.8	36.7	37.6	41.2	43.0	43.4	44.9	45.1	45.6	45.7	46.0	46.0	46.2		
GE 6000	19.8	23.8	32.8	36.8	37.9	41.4	43.2	43.5	45.1	45.3	45.8	45.9	46.2	46.2	46.4		
GE 5000	20.4	24.5	33.6	37.8	38.9	42.4	44.4	44.7	46.4	46.7	47.2	47.3	47.6	47.6	47.8		
GE 4500	21.1	25.4	35.3	39.7	40.9	44.5	46.7	47.1	48.9	49.1	49.7	49.8	50.0	50.1	50.2		
GE 4000	22.3	26.9	37.6	42.4	43.7	47.6	49.9	50.3	52.1	52.4	52.9	53.1	53.4	53.5	53.6		
GE 3500	23.2	27.9	39.0	44.1	45.4	49.5	52.0	52.4	54.3	54.6	55.2	55.4	55.7	55.8	55.9		
GE 3000	25.5	30.3	42.8	48.4	49.9	54.4	57.5	58.0	60.2	60.5	61.1	61.3	61.6	61.7	61.9		
GE 2500	26.2	31.3	44.7	50.9	52.5	57.4	60.6	61.1	63.4	63.7	64.3	64.5	64.8	64.9	65.1		
GE 2000	27.7	33.1	47.6	54.4	56.3	61.8	65.5	66.2	68.9	69.3	69.9	70.1	70.5	70.6	70.7		
GE 1800	28.1	33.5	48.4	55.3	57.2	62.8	66.5	67.3	70.1	70.5	71.1	71.4	71.7	71.8	72.0		
GE 1500	29.4	35.1	51.3	59.1	61.2	67.5	71.8	72.6	75.5	76.0	76.6	76.8	77.2	77.3	77.5		
GE 1200	30.0	35.8	53.4	62.1	64.5	71.3	76.2	77.0	80.3	80.7	81.4	81.7	82.1	82.2	82.3		
GE 1000	30.3	36.3	54.7	64.1	66.6	74.1	79.4	80.4	84.0	84.6	85.5	85.8	86.3	86.4	86.5		
GE 900	30.3	36.4	54.8	64.3	66.9	74.5	79.9	81.0	84.6	85.3	86.2	86.5	87.0	87.1	87.3		
GE 800	30.4	36.5	55.0	64.8	67.4	75.2	80.8	81.8	85.7	86.4	87.4	87.7	88.3	88.4	88.6		
GE 700	30.4	36.5	55.2	65.1	67.8	75.9	81.6	82.8	86.7	87.5	88.5	88.9	89.7	89.9	90.1		
GE 600	30.4	36.5	55.2	65.2	68.0	76.4	82.4	83.7	87.8	88.7	89.8	90.3	91.1	91.3	91.5		
GE 500	30.4	36.5	55.4	65.5	68.4	77.0	83.5	84.8	89.3	90.3	91.6	92.1	93.1	93.3	93.5		
GE 400	30.4	36.5	55.4	65.6	68.4	77.1	83.9	85.3	90.1	91.2	92.7	93.4	94.6	94.8	95.0		
GE 300	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.6	90.6	91.8	93.5	94.4	95.8	96.1	96.5		
GE 200	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.1	93.9	95.1	96.9	97.5	98.3		
GE 100	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.2	94.0	95.2	97.2	97.9	99.6		
GE 0	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.2	94.0	95.2	97.3	98.0	100.0		

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(1ST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL		17.1	20.0	27.3	31.0	32.2	34.9	35.3	35.3	36.1	36.1	36.1	36.7	36.9	37.0	37.3
GE 20000	19.5	22.9	30.4	34.5	35.7	38.8	39.1	39.1	39.1	40.0	40.0	40.0	40.5	40.8	40.9	41.2
GE 18000	19.5	22.9	30.5	34.7	35.9	39.0	39.5	39.5	40.3	40.3	40.3	40.3	40.9	41.1	41.2	41.5
GE 16000	19.5	22.9	30.5	34.7	35.9	39.0	39.5	39.5	40.3	40.3	40.3	40.3	40.9	41.1	41.2	41.5
GE 14000	19.6	23.0	30.6	34.8	36.0	39.1	39.6	39.7	40.5	40.5	40.5	41.1	41.3	41.4	41.7	
GE 12000	19.7	23.2	30.9	35.1	36.2	39.4	39.8	39.9	40.8	40.8	40.8	41.3	41.5	41.6	41.9	
GE 10000	20.6	24.2	32.6	36.8	38.0	41.1	41.5	41.6	42.6	42.6	42.6	43.1	43.3	43.4	43.8	
GE 9000	20.8	24.4	32.8	37.2	38.5	41.6	42.0	42.2	43.1	43.1	43.1	43.7	43.9	44.0	44.3	
GE 8000	22.8	26.8	35.4	40.1	41.5	44.9	45.5	45.8	46.8	46.8	46.8	47.3	47.5	47.6	48.0	
GE 7000	24.4	28.7	37.8	42.7	44.7	48.2	48.9	49.2	50.3	50.3	50.3	50.9	51.3	51.4	51.8	
GE 6000	24.6	28.9	38.3	43.1	45.2	48.6	49.4	50.0	51.3	51.3	51.3	51.8	52.3	52.4	52.8	
GE 5000	25.3	30.0	40.1	45.1	47.1	50.8	51.6	52.3	53.5	53.5	53.7	54.2	54.6	54.7	55.2	
GE 4500	26.5	31.5	42.2	47.4	49.7	53.5	54.5	55.2	56.8	56.8	56.9	57.4	57.8	58.0	58.4	
GE 4000	28.5	33.5	45.2	51.0	53.4	57.6	58.9	59.6	61.4	61.5	61.7	62.3	62.9	63.1	63.5	
GE 3500	30.0	35.6	47.7	53.5	56.0	60.3	61.7	62.4	64.2	64.3	64.5	65.1	65.7	65.9	66.3	
GE 3000	32.3	38.4	52.2	59.1	61.6	65.9	67.5	68.2	70.3	70.4	70.6	71.2	71.8	72.0	72.5	
GE 2500	33.7	39.9	54.1	61.2	63.9	68.4	70.2	70.9	73.1	73.2	73.4	74.0	74.6	74.8	75.3	
GE 2000	34.9	41.3	57.4	64.5	67.3	72.4	74.3	75.1	77.3	77.4	77.6	78.4	79.0	79.2	79.7	
GE 1800	35.5	41.8	58.2	65.3	68.2	73.8	75.7	76.5	79.0	79.1	79.5	80.2	80.9	81.1	81.5	
GE 1500	35.7	42.2	58.9	66.7	69.7	75.6	77.8	78.6	81.6	81.7	82.0	82.8	83.7	83.9	84.3	
GE 1200	36.1	42.7	59.9	68.8	72.0	78.1	80.5	81.3	84.5	84.6	85.1	85.8	87.0	87.2	87.6	
GE 1000	36.5	43.5	61.0	70.0	73.3	79.5	82.6	83.7	87.2	87.3	87.7	88.5	89.7	89.9	90.3	
GE 900	36.5	43.5	61.1	70.3	73.7	79.8	82.9	84.0	87.6	87.7	88.2	88.9	90.1	90.3	90.8	
GE 800	36.5	43.5	61.1	70.5	73.9	80.2	83.3	84.4	88.2	88.3	88.7	89.5	90.6	90.9	91.3	
GE 700	36.6	43.7	61.2	70.6	74.0	80.3	83.4	84.5	88.3	88.4	88.8	89.6	90.8	91.0	91.4	
GE 600	36.6	43.7	61.7	71.2	74.8	81.5	84.8	85.9	89.7	89.8	90.2	91.0	92.2	92.4	92.8	
GE 500	36.6	43.7	61.8	71.7	75.5	82.2	85.7	86.9	91.0	91.1	91.5	92.3	93.5	93.8	94.2	
GE 400	36.9	44.0	62.4	72.3	76.0	82.8	86.5	87.7	92.3	92.4	92.9	93.8	95.1	95.4	95.8	
GE 300	36.9	44.0	62.4	72.3	76.0	82.9	86.6	87.8	92.6	92.6	93.2	94.8	96.5	96.9	97.4	
GE 200	36.9	44.0	62.4	72.3	76.0	82.9	86.6	88.1	93.3	93.3	93.8	94.4	95.5	96.5	97.2	
GE 100	36.9	44.0	62.4	72.3	76.0	82.9	86.8	88.1	93.3	93.3	93.8	94.4	95.5	96.5	97.2	
GE 70	36.9	44.0	62.4	72.3	76.0	82.9	86.8	88.1	93.3	93.3	93.8	94.4	95.5	96.5	97.2	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 100870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(IST): 0300-0500

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GE 100	GE 90	GE 80	GE 70	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	12.1	13.6	22.2	25.8	27.4	29.8	31.1	31.1	31.4	31.4	31.4	31.4	31.8	31.9	32.0	32.2	
GE 10000	13.3	15.4	24.8	28.6	30.2	32.9	34.2	34.2	34.6	34.6	34.6	34.6	34.9	35.0	35.1	35.3	
GE 18000	13.6	15.6	25.0	29.1	30.7	33.4	34.7	34.7	35.0	35.0	35.0	35.0	35.3	35.4	35.5	35.7	
GE 16000	13.6	15.6	25.0	29.1	30.7	33.4	34.7	34.7	35.0	35.0	35.0	35.0	35.3	35.4	35.5	35.7	
GE 14000	13.7	15.7	25.1	29.2	30.6	33.5	34.8	34.8	35.1	35.1	35.1	35.1	35.4	35.5	35.6	35.8	
GE 12000	14.5	16.6	25.9	30.0	31.6	34.3	35.6	35.8	36.2	36.2	36.2	36.2	36.5	36.6	36.7	36.9	
GE 10000	15.6	18.0	27.7	31.8	33.4	36.1	37.5	37.7	38.1	38.5	38.5	38.5	38.9	39.0	39.1	39.3	
GE 9000	16.1	18.6	28.8	32.9	34.7	37.4	38.8	39.0	39.4	39.8	39.8	39.8	40.2	40.3	40.4	40.6	
GE 8000	17.4	20.2	30.7	34.9	36.6	39.3	40.7	41.0	41.7	42.1	42.1	42.1	42.4	42.5	42.6	42.8	
GE 7000	18.1	20.9	31.4	35.8	37.7	40.4	41.9	42.2	42.8	43.5	43.5	43.5	43.8	43.9	44.0	44.2	
GE 6000	18.3	21.2	31.8	36.2	38.0	40.8	42.3	42.8	43.5	44.1	44.1	44.1	44.5	44.6	44.7	44.9	
GE 5000	19.7	22.7	33.4	38.0	39.8	42.6	44.5	45.0	45.6	46.3	46.5	46.5	46.8	46.9	47.0	47.3	
GE 4500	21.0	24.3	35.7	40.4	42.4	45.7	47.8	48.3	49.0	49.6	49.8	49.8	50.5	50.6	50.7	50.9	
GE 4000	22.4	26.3	38.3	43.4	45.6	49.2	51.7	52.4	53.2	53.9	54.0	54.7	54.9	54.9	55.0	55.2	
GE 3500	23.1	27.2	40.0	45.3	47.8	51.3	53.8	54.6	55.4	56.1	56.4	57.1	57.3	57.4	57.4	57.6	
GE 3000	26.0	30.5	44.8	51.1	53.7	57.6	60.1	60.8	61.8	62.4	62.8	63.5	63.7	63.8	64.0	64.0	
GE 2500	27.7	32.1	47.1	53.7	56.3	60.5	63.1	63.8	65.0	65.7	66.0	66.7	67.0	67.1	67.1	67.3	
GE 2000	29.9	34.6	51.2	58.2	61.6	65.9	68.7	69.8	71.2	71.8	72.2	73.2	73.4	73.5	73.7	73.7	
GE 1800	30.5	35.2	52.2	59.2	62.8	67.1	69.9	70.9	72.4	73.1	73.5	74.6	75.0	75.1	75.3	75.3	
GE 1500	31.3	36.5	54.3	61.9	66.3	70.7	73.7	74.8	76.9	77.6	78.1	79.2	79.8	79.9	80.1	80.1	
GE 1200	32.3	37.7	56.0	64.5	69.6	74.4	77.5	78.7	81.2	81.9	82.6	83.6	84.2	84.3	84.5	84.5	
GE 1000	32.6	38.2	57.3	66.0	71.7	76.4	79.9	81.4	84.2	84.9	85.8	87.0	87.5	87.6	87.8	87.8	
GE 900	32.6	38.2	57.7	66.4	72.1	76.9	80.3	81.8	84.6	85.5	86.3	87.5	88.1	88.2	88.4	88.4	
GE 800	32.6	38.4	57.9	66.6	72.3	77.3	80.7	82.2	85.3	86.1	87.0	88.2	88.7	88.8	89.0	89.0	
GE 700	32.9	38.8	58.3	67.2	73.6	78.0	81.6	83.1	86.2	87.1	87.9	89.1	89.8	89.9	90.1	90.1	
GE 600	32.9	38.8	58.6	67.6	73.7	78.8	82.3	84.0	87.1	87.9	88.8	90.0	90.6	90.7	91.0	91.0	
GE 500	33.0	39.0	59.1	68.4	74.5	79.7	84.0	85.6	88.7	89.6	90.5	91.8	92.5	92.6	92.8	92.8	
GE 400	33.3	39.2	59.6	68.9	75.0	80.2	85.1	86.9	90.2	91.1	92.0	93.6	94.5	94.6	94.8	94.8	
GE 300	33.3	39.2	59.6	68.9	75.0	80.2	85.1	86.9	90.5	91.5	92.5	94.1	95.4	95.6	95.9	95.9	
GE 200	33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.2	93.3	95.2	97.0	97.5	98.0	98.0	
GE 100	33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.4	93.4	95.4	97.3	98.1	99.2	99.2	
GE 0	33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.4	93.4	95.4	97.3	98.2	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 100870 STATION NAME: GRAFENBERG AFB OH

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(1ST): 0600-0800

CEILING

VISIBILITY IN NUMBERS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 20	GE 15	GE 10	GE 8	GE 5	GE 4	GE 0		
NO CEIL		9.0	10.0	14.0	19.5	21.1	22.5	25.5	25.7	26.5	27.0	27.1	27.3	27.4	27.8
GE 2000		10.9	12.4	17.1	21.7	22.6	27.1	32.2	32.4	31.7	31.8	31.8	32.2	32.4	32.9
GE 1800		10.9	12.4	17.2	21.9	22.6	27.1	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 1600		10.9	12.4	17.2	21.9	22.6	27.1	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 1400		11.0	12.5	17.4	22.2	22.6	27.1	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 1200		11.4	12.9	18.0	22.7	22.6	27.1	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 1000		11.9	13.4	18.9	25.9	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 900		12.3	13.9	19.4	26.5	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 800		13.5	15.2	21.7	29.0	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 700		14.2	15.8	22.6	30.3	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 600		14.5	16.1	22.9	30.8	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 500		15.4	17.1	24.2	32.3	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 450		15.7	17.4	25.4	33.8	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 400		16.1	17.8	26.3	35.5	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 350		17.4	19.6	28.6	38.0	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 300		19.6	22.2	32.0	41.8	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 250		21.4	23.9	34.6	45.3	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 200		24.6	27.2	39.6	51.5	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 180		25.2	27.7	40.2	52.2	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 160		27.0	29.6	42.5	55.7	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 140		27.8	30.6	44.6	58.4	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 120		28.1	31.0	45.2	59.5	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 100		28.3	31.2	45.6	60.0	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 90		28.3	31.4	45.9	61.0	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 80		28.3	31.5	46.2	61.7	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 70		28.3	31.5	46.2	61.8	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 60		28.4	31.7	46.8	62.6	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 50		28.4	31.7	46.8	62.6	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 40		28.4	31.7	46.8	62.6	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 30		28.4	31.7	46.8	62.6	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 20		28.4	31.7	46.8	62.6	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 10		28.4	31.8	46.9	62.7	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0
GE 0		28.4	31.8	46.9	62.7	27.1	32.2	32.2	31.7	31.8	32.4	32.5	32.5	32.6	33.0

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS: 0900-1100

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 100	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		10.2	11.8	17.5	21.4	21.8	23.3	23.5	23.7	23.9	24.1	24.1	24.3	24.4	24.5	24.6	
GE 20000		14.7	17.1	23.9	27.8	28.4	30.0	30.3	30.4	30.8	31.0	31.0	31.2	31.3	31.4	31.5	
GE 18000		15.1	17.7	25.1	29.0	29.6	31.2	31.5	31.6	31.9	32.2	32.2	32.4	32.5	32.6	32.7	
GE 16000		15.5	18.2	25.5	29.5	30.0	31.6	31.9	32.0	32.4	32.6	32.6	32.8	32.9	33.0	33.1	
GE 14000		15.5	18.2	25.6	29.6	30.1	31.7	32.0	32.2	32.5	32.7	32.7	32.9	33.0	33.1	33.2	
GE 12000		16.1	18.8	26.7	30.6	31.3	32.9	33.2	33.3	33.7	33.9	33.9	34.1	34.2	34.3	34.4	
GE 10000		16.7	19.4	27.5	31.7	32.5	34.2	34.5	34.6	34.9	35.2	35.2	35.4	35.5	35.6	35.7	
GE 9000		16.7	19.4	27.8	31.8	32.6	34.3	34.6	34.7	35.1	35.3	35.3	35.5	35.6	35.7	35.8	
GE 8000		16.2	21.0	29.8	34.2	35.1	37.1	37.4	37.5	38.0	38.2	38.2	38.4	38.5	38.6	38.7	
GE 7000		19.1	22.2	31.7	36.7	37.6	39.7	40.0	40.1	40.5	40.8	40.8	41.0	41.1	41.2	41.3	
GE 6000		19.4	22.4	31.9	37.2	38.2	40.2	40.5	40.6	41.1	41.3	41.3	41.5	41.6	41.7	41.8	
GE 5000		20.4	23.5	33.7	39.5	40.5	42.6	42.9	43.0	43.4	43.7	43.7	43.9	44.0	44.1	44.2	
GE 4500		21.2	24.3	34.6	40.5	41.6	43.7	44.1	44.2	44.7	44.9	44.9	45.2	45.3	45.4	45.5	
GE 4000		23.3	26.6	37.3	44.0	45.2	47.6	48.1	48.4	49.0	49.2	49.4	49.6	49.7	49.8	49.9	
GE 3500		24.8	28.1	39.2	46.2	47.4	49.9	50.4	50.8	51.5	51.7	51.8	52.0	52.3	52.4	52.5	
GE 3000		30.5	34.0	46.3	54.4	55.8	58.7	59.5	59.8	60.6	60.9	61.0	61.2	61.4	61.5	61.6	
GE 2500		32.3	35.7	49.1	57.6	59.2	62.4	63.2	63.5	64.4	64.6	64.7	64.9	65.4	65.5	65.6	
GE 2000		34.7	38.4	53.7	63.4	65.3	69.0	69.9	70.6	71.7	71.9	72.0	72.3	72.8	72.9	73.0	
GE 1800		35.2	38.8	54.1	64.0	65.6	69.6	70.4	71.2	72.3	72.5	72.6	72.8	73.3	73.4	73.5	
GE 1600		37.2	41.0	56.7	68.2	70.3	74.3	75.4	76.1	77.3	77.5	77.7	78.1	78.6	78.7	78.8	
GE 1200		38.8	42.6	58.8	71.4	74.0	78.2	79.7	80.6	82.2	82.4	82.6	82.9	83.4	83.5	83.7	
GE 1000		39.7	43.4	60.2	73.1	75.9	80.6	82.5	83.4	85.4	85.6	86.0	86.3	86.9	87.0	87.1	
GE 900		40.3	44.2	61.4	74.5	77.3	82.2	84.1	85.1	87.1	87.3	87.7	88.1	88.6	88.7	88.8	
GE 800		40.5	44.4	62.0	75.5	78.7	83.5	85.6	86.6	88.7	88.9	89.4	89.7	90.2	90.3	90.4	
GE 700		40.5	44.4	62.4	76.0	79.6	84.4	86.7	87.6	89.9	90.1	90.6	91.1	91.6	91.7	91.8	
GE 600		40.5	44.4	62.6	76.6	80.2	85.3	88.1	89.0	91.7	92.0	92.8	93.2	94.1	94.2	94.3	
GE 500		40.5	44.4	62.7	76.7	80.3	85.7	88.7	89.8	92.7	93.2	94.3	95.1	96.2	96.3	96.5	
GE 400		40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.5	94.1	95.4	96.2	97.4	97.6	97.7	
GE 300		40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.8	94.4	95.8	96.9	98.4	98.6	98.8	
GE 200		40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.8	94.4	95.9	97.0	98.7	99.1	99.5	
GE 100		40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.8	94.4	95.9	97.0	98.8	99.4	99.8	
GE 0		40.8	44.6	62.9	77.0	80.8	86.1	89.2	90.4	94.0	94.6	96.1	97.2	99.0	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 100870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-67
MONTH: MAR HOURS (LST): 1200-1400

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	1	15.7	18.2	22.5	23.3	23.3	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
GE 10000		18.8	21.5	26.9	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
GE 18000		20.6	23.4	29.1	30.4	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE 16000		20.6	23.4	29.1	30.4	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE 14000		20.9	23.7	29.4	30.6	30.6	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 12000		21.5	24.5	30.3	31.6	31.6	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
GE 10000		24.0	27.0	33.3	34.7	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 9000		24.2	27.2	33.9	35.3	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 8000		26.2	29.4	36.3	38.0	38.0	38.2	38.3	38.3	38.3	38.4	38.5	38.5	38.6	38.6	38.6
GE 7000		27.7	31.0	38.5	40.2	40.2	40.4	40.5	40.5	40.5	40.6	40.8	40.8	40.9	40.9	40.9
GE 6000		27.8	31.1	38.7	40.4	40.4	40.6	40.8	40.8	40.8	40.9	41.0	41.0	41.1	41.1	41.1
GE 5000		30.0	33.5	41.9	43.8	43.8	44.0	44.1	44.1	44.1	44.2	44.3	44.3	44.4	44.4	44.4
GE 4500		30.6	34.2	43.0	44.9	44.9	45.2	45.3	45.3	45.3	45.4	45.5	45.5	45.6	45.6	45.6
GE 4000		34.4	38.1	47.3	50.0	50.0	50.2	50.3	50.3	50.3	50.4	50.5	50.5	50.6	50.6	50.6
GE 3500		37.2	41.0	50.9	53.7	53.7	53.9	54.3	54.3	54.4	54.5	54.6	54.6	54.7	54.7	54.7
GE 3000		48.6	52.9	64.4	67.7	67.6	68.2	68.6	68.6	68.7	68.8	68.9	68.9	69.0	69.0	69.0
GE 2500		51.4	55.9	68.1	71.5	71.6	71.9	72.4	72.4	72.5	72.6	72.7	72.7	72.8	72.8	72.8
GE 2000		54.5	59.1	72.6	77.8	78.4	79.2	79.7	79.7	79.8	79.9	80.1	80.1	80.2	80.2	80.2
GE 1800		55.4	60.1	73.9	79.1	79.7	80.6	81.1	81.1	81.2	81.3	81.5	81.5	81.6	81.6	81.6
GE 1500		57.0	61.9	76.7	82.8	83.9	85.2	85.6	85.6	85.8	85.9	86.2	86.2	86.3	86.3	86.3
GE 1200		58.0	63.1	78.9	85.7	86.9	88.5	88.9	89.0	89.2	89.4	89.7	89.7	89.8	89.8	89.8
GE 1000		58.5	63.7	80.2	87.3	88.6	90.5	91.3	91.4	91.6	91.7	92.0	92.2	92.3	92.3	92.3
GE 900		58.7	64.0	81.0	89.2	89.8	91.8	92.6	92.7	92.9	93.0	93.3	93.4	93.5	93.5	93.5
GE 800		59.1	64.5	81.6	89.0	90.8	92.9	93.7	93.8	94.1	94.3	94.6	94.7	94.8	94.8	94.8
GE 700		59.1	64.5	81.8	89.2	91.2	93.8	94.6	94.7	95.1	95.3	95.7	95.9	95.9	95.9	95.9
GE 600		59.1	64.5	81.8	89.5	91.8	94.4	95.5	95.6	96.2	96.8	97.2	97.3	97.6	97.6	97.6
GE 500		59.1	64.5	81.8	89.6	91.9	94.5	96.0	96.3	97.1	97.6	98.2	98.4	99.0	99.0	99.0
GE 400		59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.5	97.2	98.0	98.5	98.8	99.5	99.5	99.5
GE 300		59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	99.9	99.9	99.9
GE 200		59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0
GE 100		59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0
GE 0		59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
 1 SAFETAC
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.2	24.1	26.1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
GE 20000		28.3	29.5	32.6	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 18000		29.9	31.2	34.7	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 16000		30.0	31.3	34.8	35.3	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
GE 14000		30.2	31.5	35.1	35.5	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 12000		31.3	32.6	36.2	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 10000		34.1	35.7	39.6	40.0	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 9000		35.1	36.7	40.8	41.2	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 8000		38.1	39.7	44.4	45.2	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 7000		39.8	41.5	46.6	47.5	47.8	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 6000		40.5	42.3	47.3	48.3	48.6	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 5000		42.8	44.6	50.3	51.5	51.8	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 4500		43.9	45.8	51.5	52.8	53.1	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 4000		47.6	50.4	57.3	59.2	59.6	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 3500		51.5	54.5	61.8	64.1	64.6	64.8	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 3000		60.3	63.7	71.8	74.1	74.6	75.1	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8
GE 2500		63.2	66.7	75.7	78.2	78.9	79.4	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2
GE 2000		63.8	67.4	78.3	81.2	81.9	82.4	83.0	83.0	83.2	83.3	83.4	83.4	83.4	83.4	83.4
GE 1800		64.9	69.0	80.5	83.7	84.6	85.2	85.8	85.8	86.0	86.2	86.3	86.3	86.3	86.3	86.3
GE 1500		66.5	70.9	83.1	87.0	88.1	88.7	89.7	89.7	89.9	90.1	90.2	90.3	90.3	90.3	90.5
GE 1200		67.2	71.6	84.3	88.5	89.6	90.9	91.9	91.9	92.3	92.5	92.6	92.7	92.7	92.7	92.7
GE 1000		67.5	72.3	85.1	89.6	90.6	92.3	93.4	93.4	93.8	94.1	94.2	94.3	94.3	94.3	94.3
GE 900		67.5	72.3	85.5	90.1	91.2	93.0	94.2	94.2	94.5	94.8	94.9	95.1	95.1	95.1	95.1
GE 800		67.5	72.3	85.9	91.0	92.3	94.2	95.4	95.5	95.8	96.2	96.3	96.5	96.5	96.5	96.5
GE 700		67.5	72.3	85.9	91.2	92.5	94.5	95.8	95.9	96.3	96.8	96.9	97.0	97.1	97.1	97.1
GE 600		67.5	72.3	85.9	91.3	92.6	94.8	96.8	97.0	97.5	98.1	98.2	98.3	98.4	98.4	98.4
GE 500		67.5	72.3	85.9	91.4	92.9	94.9	97.0	97.2	98.0	98.6	98.8	99.0	99.2	99.2	99.2
GE 400		67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.4	99.7	99.7	99.8
GE 300		67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9
GE 200		67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9
GE 100		67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9
GE 0		67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	GT	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	100	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0	
NO CEIL		25.9	27.8	32.8	33.1	33.5	33.8	34.2	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
GE 20000		30.9	32.9	38.9	39.7	42.2	40.5	41.0	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 18000		32.3	34.5	41.1	41.8	42.4	42.7	43.1	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 16000		32.6	34.8	41.4	42.2	42.7	43.0	43.4	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 14000		33.0	35.3	41.8	42.6	43.1	43.4	43.9	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
GE 12000		33.7	35.9	42.5	43.2	43.8	44.1	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 10000		35.9	38.3	45.4	46.1	46.7	47.0	47.4	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 9000		36.7	39.0	46.7	47.4	48.0	48.4	48.8	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 8000		39.6	42.3	50.2	51.2	51.7	52.2	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 7000		42.6	45.3	53.7	54.7	55.3	56.0	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 6000		42.6	45.9	54.3	55.4	55.9	56.8	57.5	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 5000		44.3	47.6	56.6	57.7	58.3	59.2	60.2	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 4500		46.2	49.7	59.9	61.2	61.7	63.1	64.1	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 4000		49.1	53.1	64.2	66.0	66.9	68.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 3500		51.4	55.4	66.7	68.8	70.0	71.6	72.8	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 3000		54.5	58.9	71.4	74.0	75.4	77.3	78.6	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 2500		55.5	59.9	72.8	75.8	77.3	79.2	80.6	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 2000		56.3	60.9	75.6	78.8	80.4	82.5	84.1	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 1800		56.8	61.3	76.5	79.7	81.7	83.6	85.5	85.9	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 1500		57.6	62.3	77.7	81.9	84.6	86.9	88.7	89.1	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 1200		57.8	62.7	78.8	83.5	86.3	88.7	90.8	91.3	92.0	92.3	92.4	92.7	92.7	92.7	92.7	92.8
GE 1000		58.2	63.0	79.6	84.5	87.3	90.1	92.2	92.9	93.8	94.0	94.1	94.4	94.5	94.5	94.5	94.6
GE 900		58.2	63.0	79.8	84.7	87.6	90.4	92.5	93.2	94.1	94.3	94.4	94.7	94.8	94.8	94.8	94.9
GE 800		58.4	63.2	80.1	85.3	88.3	91.3	93.5	94.3	95.3	95.5	95.6	95.9	96.0	96.0	96.0	96.1
GE 700		58.4	63.2	80.1	85.4	88.4	91.4	93.8	94.5	95.7	95.9	96.0	96.3	96.5	96.5	96.5	96.6
GE 600		58.4	63.2	80.1	85.4	88.5	91.6	94.1	95.1	96.2	96.5	96.6	96.9	97.0	97.0	97.0	97.1
GE 500		58.4	63.2	80.1	85.4	88.5	92.0	94.6	95.8	97.2	97.5	97.6	98.2	98.3	98.3	98.3	98.4
GE 400		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.2	99.2	99.2	99.4
GE 300		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.4	99.4	99.6
GE 200		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.4	99.4	99.7
GE 100		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.5	99.5	99.8
GE 70		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.9	98.3	98.4	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: 106970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS: 1500-2300

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	GE 160	GE 90	GE 60	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.9	27.1	34.1	36.3	37.4	39.5	40.1	40.2	41.1	41.1	41.2	41.3	41.7	41.7	41.7	
GE 2000		26.1	29.6	37.7	40.2	41.3	43.8	44.4	44.5	45.4	45.4	45.5	45.6	46.0	46.0	46.0	
GE 1800		26.5	29.9	38.5	41.0	42.0	44.5	45.3	45.4	46.2	46.2	46.3	46.5	46.9	46.9	46.9	
GE 1600		26.6	32.0	38.6	41.1	42.2	44.6	45.4	45.5	46.3	46.3	46.5	46.6	47.0	47.0	47.0	
GE 1400		26.9	30.3	38.9	41.4	42.5	44.9	45.8	46.0	46.9	46.9	47.0	47.1	47.5	47.5	47.5	
GE 1200		27.0	30.4	39.4	41.8	42.9	45.4	46.2	46.5	47.3	47.3	47.4	47.5	48.0	48.0	48.0	
GE 1000		28.3	31.7	41.4	43.9	44.9	47.4	48.4	48.6	49.5	49.5	49.6	49.7	50.1	50.1	50.1	
GE 900		28.6	32.0	41.7	44.2	45.3	48.0	48.9	49.1	50.0	50.0	50.1	50.2	50.6	50.6	50.6	
GE 800		21.1	34.7	44.9	47.5	48.6	51.4	52.4	52.8	53.7	53.8	53.9	54.1	54.5	54.5	54.5	
GE 700		32.6	35.3	46.9	49.7	51.2	54.3	55.4	55.8	56.7	56.9	57.0	57.2	57.6	57.6	57.6	
GE 600		33.0	36.8	47.4	50.2	51.7	54.8	55.9	56.5	57.3	57.5	57.6	57.8	58.3	58.3	58.3	
GE 500		35.1	39.1	50.2	53.4	55.1	58.6	59.7	60.2	61.2	61.4	61.5	61.7	62.2	62.2	62.2	
GE 400		26.9	41.0	52.6	55.9	57.5	61.4	62.5	63.0	64.1	64.3	64.4	64.6	65.1	65.1	65.1	
GE 300		39.2	44.0	56.1	59.5	61.3	65.9	67.1	67.6	68.7	68.9	69.0	69.2	69.7	69.7	69.7	
GE 200		41.6	46.6	59.2	62.9	64.7	69.6	70.5	71.4	72.6	72.8	72.9	73.1	73.5	73.5	73.5	
GE 100		44.2	49.4	63.2	67.8	69.6	74.8	76.1	76.7	77.8	78.1	78.2	78.4	78.8	78.8	78.8	
GE 2000		45.1	50.3	64.5	69.6	71.5	76.6	78.0	78.5	79.8	80.0	80.1	80.3	80.8	80.8	80.8	
GE 1800		45.8	51.2	66.9	72.7	74.7	79.9	81.6	82.2	83.7	83.9	84.0	84.2	84.6	84.6	84.6	
GE 1600		45.8	51.2	67.1	73.0	75.3	80.8	82.6	83.1	84.6	84.8	84.9	85.2	85.6	85.6	85.6	
GE 1400		46.5	51.9	68.4	75.3	77.5	83.7	85.5	86.0	87.5	87.7	87.8	88.1	88.5	88.5	88.5	
GE 1200		46.8	52.3	69.1	76.2	78.6	85.2	87.1	87.6	89.2	89.6	89.7	89.9	90.3	90.3	90.3	
GE 1000		46.9	52.8	69.9	77.2	79.8	86.2	88.4	89.1	91.1	91.4	91.6	91.8	92.3	92.3	92.3	
GE 900		46.9	52.8	70.0	77.5	80.1	86.6	88.7	89.5	91.4	91.7	92.0	92.3	92.7	92.7	92.7	
GE 800		47.0	52.9	70.3	78.1	80.6	87.3	89.8	90.5	92.5	92.9	93.3	93.5	94.0	94.0	94.0	
GE 700		47.0	52.9	70.5	78.4	81.0	87.6	90.2	91.0	93.0	93.4	93.9	94.1	94.6	94.6	94.6	
GE 600		47.1	53.0	70.8	78.6	81.4	88.1	90.9	91.6	93.7	94.1	94.5	94.7	95.3	95.3	95.3	
GE 500		47.1	53.0	70.8	78.7	81.5	88.4	91.5	92.5	95.1	95.7	96.1	96.3	96.9	96.9	96.9	
GE 400		47.1	53.0	70.8	78.7	81.5	88.5	91.6	92.6	95.6	96.2	96.7	96.9	97.5	97.6	97.6	
GE 300		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.4	98.2	98.3	98.3	
GE 200		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.7	98.7	98.9	98.9	
GE 100		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.7	98.9	99.2	99.9	
GE 0		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.7	98.9	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: 106870 STATION NAME: GRAFENLOHR AAF GFH

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		17.1	19.1	24.6	27.1	27.9	29.3	30.0	30.0	30.4	30.5	30.6	30.7	30.8	30.9	31.0	
GE 20000		20.3	22.7	29.0	32.0	32.9	34.4	35.1	35.2	35.6	35.7	35.7	35.9	36.0	36.1	36.2	
GE 18000		21.0	23.5	30.2	33.1	34.1	35.6	36.4	36.5	36.9	37.0	37.0	37.1	37.3	37.3	37.5	
GE 16000		21.1	23.6	30.3	33.3	34.2	35.7	36.5	36.6	37.0	37.1	37.1	37.2	37.4	37.5	37.6	
GE 14000		21.3	23.8	30.5	33.5	34.4	36.0	36.8	36.9	37.3	37.4	37.4	37.5	37.7	37.7	37.9	
GE 12000		21.9	24.4	31.2	34.2	35.2	36.8	37.5	37.7	38.1	38.2	38.2	38.4	38.5	38.6	38.7	
GE 10000		23.4	26.0	33.3	36.4	37.3	38.9	39.7	39.9	40.3	40.5	40.5	40.7	40.8	40.9	41.0	
GE 9000		23.8	26.4	34.0	37.1	38.1	39.7	40.5	40.7	41.1	41.3	41.3	41.4	41.6	41.7	41.8	
GE 8000		25.9	28.6	36.7	40.0	41.0	42.8	43.7	43.9	44.4	44.6	44.6	44.8	45.0	45.0	45.2	
GE 7000		27.2	30.2	38.6	42.2	43.4	45.3	46.3	46.5	47.0	47.2	47.3	47.4	47.6	47.7	47.9	
GE 6000		27.6	30.6	39.1	42.7	43.9	45.8	46.6	47.1	47.7	47.9	47.9	48.1	48.3	48.4	48.5	
GE 5000		29.1	32.3	41.3	45.2	46.4	48.4	49.5	49.8	50.4	50.6	50.7	50.9	51.1	51.2	51.3	
GE 4500		30.2	33.5	43.1	47.1	48.4	50.7	51.8	52.2	52.8	53.0	53.1	53.4	53.6	53.6	53.8	
GE 4000		32.6	36.2	46.5	51.1	52.5	55.1	56.4	56.8	57.5	57.8	57.9	58.1	58.4	58.5	58.7	
GE 3500		34.6	38.5	49.3	54.1	55.7	58.3	59.7	60.1	60.9	61.1	61.3	61.5	61.8	61.9	62.1	
GE 3000		39.5	43.7	55.8	61.3	63.0	65.9	67.4	67.8	68.7	68.9	69.1	69.4	69.7	69.8	69.9	
GE 2500		41.3	45.5	58.3	64.1	65.9	68.9	70.6	71.0	72.0	72.2	72.4	72.6	73.0	73.1	73.3	
GE 2000		43.1	47.5	61.9	68.5	70.6	74.0	75.7	76.3	77.4	77.7	77.9	78.2	78.6	78.7	78.9	
GE 1800		43.6	48.2	62.8	69.5	71.8	76.2	77.0	77.6	78.6	79.1	79.3	79.7	80.1	80.2	80.4	
GE 1500		44.8	49.5	64.8	72.4	75.0	78.8	80.6	81.3	82.7	83.0	83.4	83.8	84.2	84.3	84.5	
GE 1200		45.6	50.4	66.3	74.6	77.6	81.6	83.8	84.5	86.1	86.4	86.8	87.2	87.7	87.8	88.0	
GE 1000		46.0	51.0	67.3	75.9	79.0	83.3	85.8	86.6	88.5	89.8	89.3	89.4	90.3	90.4	90.6	
GE 900		46.1	51.1	67.8	76.5	79.6	84.0	86.5	87.4	89.3	89.6	90.1	90.6	91.1	91.2	91.4	
GE 800		46.2	51.3	68.1	77.1	80.4	84.9	87.6	88.4	90.4	90.8	91.3	91.8	92.3	92.4	92.6	
GE 700		46.3	51.4	68.3	77.5	80.8	85.4	88.2	89.0	91.1	91.5	92.0	92.6	93.2	93.3	93.5	
GE 600		46.3	51.4	68.5	77.7	81.3	86.0	89.1	90.0	92.2	92.7	93.2	93.8	94.4	94.6	94.7	
GE 500		46.3	51.5	68.6	78.0	81.7	86.5	89.9	90.9	93.3	93.9	94.5	95.2	96.0	96.2	96.4	
GE 400		46.4	51.6	68.8	78.2	81.8	86.7	90.2	91.3	94.1	94.7	95.4	96.2	97.2	97.3	97.5	
GE 300		46.4	51.6	68.8	78.2	81.8	86.8	90.3	91.4	94.3	95.0	95.8	96.7	97.8	98.0	98.3	
GE 200		46.4	51.6	68.8	78.2	81.8	86.8	90.3	91.4	94.5	95.2	96.0	97.0	98.4	98.8	99.3	
GE 100		46.4	51.6	68.8	78.2	81.8	86.8	90.4	91.5	94.5	95.2	96.0	97.0	98.5	99.0	99.8	
GE 0		46.4	51.6	68.8	78.2	81.9	86.8	90.4	91.5	94.5	95.3	96.0	97.1	98.6	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	25.4	31.6	39.5	42.2	42.8	43.8	45.4	45.5	45.6	45.6	45.6	45.6	46.3	46.4	47.1	
GE 20000	27.1	33.3	42.0	45.3	46.0	47.0	48.6	48.7	48.9	48.9	48.9	49.0	49.6	49.7	50.5	
GE 18000	27.2	33.4	42.1	45.4	46.1	47.3	48.9	49.0	49.3	49.3	49.3	49.4	49.9	50.1	50.8	
GE 16000	27.2	33.4	42.1	45.4	46.1	47.3	48.9	49.0	49.3	49.3	49.3	49.4	49.9	50.1	50.8	
GE 14000	27.2	33.4	42.1	45.4	46.2	47.6	49.2	49.3	49.5	49.5	49.5	49.6	50.2	50.3	51.1	
GE 12000	28.2	34.4	43.3	46.5	47.3	48.7	50.3	50.4	50.6	50.6	50.6	50.8	51.4	51.5	52.3	
GE 10000	30.9	37.3	46.4	49.8	50.6	52.1	53.7	53.8	54.0	54.0	54.0	54.2	54.9	55.0	55.8	
GE 9000	31.5	37.8	47.1	50.7	51.5	53.1	54.7	54.8	55.0	55.0	55.0	55.3	55.9	56.1	56.9	
GE 8000	34.8	41.6	51.2	54.9	55.7	57.6	59.2	59.3	59.6	59.6	59.6	59.8	60.5	60.6	61.4	
GE 7000	35.3	42.4	52.2	56.6	57.4	59.6	61.4	61.5	61.7	61.7	61.7	61.9	62.6	62.7	63.5	
GE 6000	35.3	42.5	52.7	57.1	57.9	60.0	61.8	61.9	62.2	62.2	62.2	62.4	63.1	63.2	64.0	
GE 5000	36.3	45.6	56.3	60.9	61.9	64.3	66.5	66.6	66.8	66.8	66.8	67.0	67.7	68.0	68.7	
GE 4500	39.2	46.7	57.8	63.2	64.2	67.0	69.3	69.4	69.6	69.6	69.6	69.9	70.6	70.8	71.6	
GE 4000	42.5	51.2	62.5	68.3	69.3	72.1	75.0	75.1	75.3	75.3	75.3	75.5	76.2	76.4	77.2	
GE 3500	43.8	51.6	64.9	70.9	72.0	74.9	77.7	77.8	78.0	78.0	78.0	78.3	78.9	79.2	80.0	
GE 3000	45.3	53.5	68.1	74.6	75.8	78.7	81.7	81.8	82.2	82.2	82.2	82.4	83.1	83.4	84.1	
GE 2500	46.7	54.8	69.4	76.0	77.3	80.3	83.4	83.5	83.9	83.9	83.9	84.1	84.8	85.1	85.8	
GE 2000	47.1	55.5	71.5	78.4	80.0	83.2	86.5	87.0	87.5	87.5	87.5	87.8	88.4	88.7	89.5	
GE 1800	47.2	55.6	71.6	78.5	80.1	83.4	86.6	87.1	87.7	87.7	87.7	87.9	88.6	88.8	89.6	
GE 1500	48.5	56.9	73.6	81.2	82.8	86.2	89.7	91.4	90.9	90.9	90.9	91.2	91.8	92.1	92.9	
GE 1000	48.7	57.1	74.2	81.8	83.4	86.9	90.6	91.5	92.1	92.1	92.2	92.4	93.1	93.3	94.1	
GE 1000	49.0	57.6	75.2	82.6	84.6	88.1	91.8	92.8	93.4	93.4	93.7	93.9	94.6	94.8	95.9	
GE 900	49.2	57.8	75.4	83.0	84.6	88.3	92.1	93.0	93.7	93.7	93.9	94.1	94.8	95.0	96.1	
GE 800	49.2	57.8	75.5	83.1	84.9	88.8	92.9	93.8	94.5	94.5	94.7	94.9	95.6	95.8	96.9	
GE 700	49.2	57.8	75.8	83.4	85.3	89.2	93.4	94.8	95.5	95.5	95.7	95.9	96.6	96.8	98.0	
GE 600	49.2	57.8	75.8	83.4	85.3	89.6	94.3	95.2	95.9	95.9	96.5	96.7	97.4	97.6	98.8	
GE 500	49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2	
GE 400	49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2	
GE 300	49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2	
GE 200	49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2	
GE 100	49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	98.0	98.2	99.3	
GE 0	49.2	57.9	75.9	83.6	85.4	89.7	94.6	95.5	96.3	96.3	96.9	97.3	98.1	98.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 863

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GT 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.6	18.3	27.9	32.0	32.7	33.9	36.7	36.9	38.2	38.2	38.4	38.6	39.1	39.5	40.9
GE 2000		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 1800		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 1600		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 1400		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 1200		15.6	20.5	30.6	35.0	36.0	37.5	40.5	40.7	42.0	42.0	42.3	42.6	43.1	43.5	44.9
GE 1000		17.1	21.9	32.5	37.3	38.4	40.1	43.2	43.4	44.9	44.9	45.1	45.4	46.0	46.6	48.1
GE 900		17.3	22.3	33.2	38.0	39.1	40.9	44.0	44.2	45.9	45.9	46.1	46.4	47.0	47.6	49.2
GE 800		19.0	24.5	36.2	41.5	42.6	44.7	47.9	48.2	49.9	49.9	50.2	50.5	51.1	51.6	53.2
GE 700		19.5	25.3	37.5	43.2	44.9	47.0	50.6	51.0	52.7	52.7	52.9	53.2	53.8	54.4	55.9
GE 600		19.8	25.5	38.1	43.7	45.5	47.7	51.3	51.6	53.3	53.3	53.6	53.9	54.5	55.0	56.6
GE 500		23.2	29.6	42.6	48.4	50.4	52.9	57.1	57.6	59.4	59.4	59.7	60.0	60.6	61.1	62.9
GE 400		24.1	30.8	44.8	51.1	53.1	55.9	60.2	60.8	62.8	62.8	63.1	63.4	64.0	64.5	66.3
GE 300		25.6	32.5	47.3	54.2	56.5	59.4	64.4	65.0	67.1	67.1	67.3	67.7	68.2	68.8	70.6
GE 250		27.1	34.1	49.8	57.2	59.4	62.7	67.7	68.2	70.4	70.4	70.6	71.0	71.5	72.1	73.9
GE 200		29.4	36.6	53.2	60.7	63.2	66.6	71.9	72.4	74.6	74.6	74.8	75.1	75.8	76.4	78.2
GE 150		29.7	37.1	54.4	62.3	64.7	68.2	73.7	74.2	76.4	76.4	76.6	76.9	77.6	78.2	80.0
GE 100		30.5	38.2	56.0	64.4	66.9	70.6	76.3	76.8	79.1	79.2	79.4	79.9	80.6	81.1	82.9
GE 80		30.7	38.5	56.8	65.2	67.8	71.5	77.2	77.7	80.0	80.1	80.3	80.8	81.5	82.0	83.8
GE 60		31.4	39.2	58.0	67.9	71.2	75.5	81.6	82.1	84.4	84.5	84.7	85.2	85.9	86.4	88.2
GE 40		32.1	39.9	59.4	69.6	73.1	77.6	83.8	84.4	86.8	87.0	87.2	87.7	88.4	88.9	90.7
GE 30		32.7	40.6	60.8	71.1	74.9	79.4	86.1	86.7	89.2	89.4	89.6	90.1	90.7	91.3	93.2
GE 20		32.8	40.7	61.0	71.3	75.1	79.7	86.3	86.9	89.4	89.6	89.8	90.3	91.0	91.5	93.4
GE 10		32.8	40.7	61.5	71.8	75.6	80.5	87.1	87.7	90.2	90.4	90.6	91.1	91.8	92.3	94.2
GE 5		32.9	40.8	61.9	72.5	76.4	81.4	88.5	89.2	91.8	92.0	92.2	92.7	93.3	93.9	95.8
GE 0		32.9	40.8	61.9	72.5	76.4	81.4	88.5	89.3	92.0	92.2	92.8	93.2	93.9	94.5	96.4
GE 500		32.9	40.8	62.0	72.7	76.5	81.5	88.7	89.5	92.7	93.0	93.6	94.1	94.8	95.4	97.3
GE 400		32.9	40.8	62.0	72.7	76.6	81.6	88.8	89.6	92.8	93.1	93.7	94.2	94.9	95.6	97.5
GE 300		32.9	40.8	62.0	72.7	76.6	81.6	88.8	89.6	93.0	93.3	93.9	94.5	95.1	95.8	97.9
GE 200		32.9	40.8	62.0	72.7	76.6	81.8	89.0	89.8	93.2	93.6	94.1	94.7	95.6	96.4	98.6
GE 100		32.9	40.8	62.0	72.7	76.6	81.8	89.0	89.8	93.2	93.6	94.1	94.7	95.7	96.5	99.2
GE 0		33.0	40.9	62.1	72.8	76.7	81.9	89.2	89.9	93.3	93.7	94.2	94.9	95.8	96.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH

LSAFEJAC

AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFW

PERIOD OF RECORD: 78-87

MONTH: APR

HOURS(IST): 0600-0800

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.6	11.8	19.5	26.2	28.2	30.2	31.9	32.4	33.1	33.1	33.5	33.6	33.9	34.3	35.6
GE 20000		12.2	13.5	22.3	30.1	32.2	34.4	36.3	36.8	37.7	37.8	38.1	38.2	38.7	39.0	40.4
GE 18000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 16000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 14000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 12000		13.1	14.5	24.0	32.1	34.3	36.4	38.3	38.8	39.6	39.9	40.2	40.4	40.8	41.1	42.5
GE 10000		14.0	15.4	25.7	34.2	36.5	39.1	41.0	41.5	42.8	43.0	43.4	43.5	44.0	44.3	45.7
GE 9000		14.1	15.6	25.9	34.4	36.8	39.5	41.4	41.8	43.2	43.3	43.7	43.9	44.3	44.6	46.0
GE 8000		16.8	18.5	30.4	39.8	42.4	45.2	47.1	47.6	49.0	49.2	49.9	50.1	50.5	50.8	52.2
GE 7000		17.8	19.7	33.0	42.5	45.1	47.9	49.9	50.4	52.0	52.1	53.0	53.1	53.8	54.1	55.6
GE 6000		18.0	20.0	33.4	42.8	45.4	48.3	50.3	50.7	52.3	52.4	53.3	53.4	54.1	54.5	55.9
GE 5000		19.3	21.2	35.4	45.1	48.0	50.8	53.2	53.7	55.2	55.4	56.4	56.5	57.2	57.5	59.0
GE 4500		20.1	22.1	36.9	47.5	50.6	53.4	55.9	56.4	58.3	58.4	59.4	59.5	60.3	60.7	62.1
GE 4000		21.9	24.2	39.6	50.5	53.9	56.8	59.5	60.1	62.0	62.2	63.4	63.5	64.3	64.6	66.1
GE 3500		23.9	26.5	42.4	53.4	56.8	60.1	62.9	63.5	65.4	65.6	67.1	67.2	68.0	68.3	69.9
GE 3000		26.7	29.3	45.7	57.6	61.0	64.3	67.3	67.9	70.7	71.0	72.6	72.7	73.5	73.8	75.4
GE 2500		27.7	30.6	47.2	59.3	62.8	66.2	69.4	70.0	72.9	73.3	74.9	75.0	75.8	76.1	77.7
GE 2000		29.1	32.6	49.3	61.7	65.3	68.9	72.6	73.2	76.3	76.7	78.2	78.4	79.1	79.5	81.1
GE 1800		29.3	32.2	50.1	62.5	66.1	69.7	73.4	74.0	77.1	77.5	79.0	79.1	79.9	80.3	81.8
GE 1500		30.4	33.8	52.4	66.0	69.7	73.7	77.9	78.5	81.7	82.1	83.7	83.8	84.6	84.9	86.5
GE 1200		31.1	34.6	53.3	67.1	70.8	75.0	79.4	80.0	83.5	83.9	85.5	85.6	86.4	86.7	88.3
GE 1000		31.2	34.7	53.9	68.0	71.7	76.0	80.7	81.4	85.1	85.6	87.3	87.4	88.2	88.5	90.1
GE 900		31.2	34.7	54.0	68.4	72.2	76.4	81.2	81.9	85.7	86.1	87.8	88.0	88.8	89.2	90.8
GE 800		31.2	34.7	54.6	69.1	72.8	77.3	82.1	82.9	86.7	87.1	89.1	89.3	90.1	90.4	92.0
GE 700		31.0	35.1	54.9	69.4	73.3	77.6	82.6	83.5	87.7	88.2	90.1	90.3	91.1	91.4	93.0
GE 600		31.6	35.1	55.2	69.8	73.7	78.6	83.5	84.3	88.5	89.0	91.2	91.4	92.2	92.6	94.1
GE 500		31.6	35.1	55.2	69.8	73.7	78.7	83.9	84.8	89.3	89.9	92.7	93.0	93.0	94.0	96.3
GE 400		31.6	35.1	55.2	69.8	73.7	78.7	83.9	84.8	89.6	90.2	93.0	93.3	94.4	94.9	96.6
GE 300		31.6	35.1	55.2	69.8	73.7	78.7	84.1	85.0	90.0	90.5	93.6	93.9	94.9	95.5	97.3
GE 200		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.5	96.3	98.9
GE 100		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.6	96.5	99.7
GE 0		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.6	96.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.7	23.2	31.1	33.4	33.6	34.1	34.2	34.2	34.3	34.3	34.3	34.3	34.5	34.5	34.5
GE 20000		24.4	26.0	34.3	37.3	37.4	38.0	38.2	38.2	38.4	38.4	38.5	38.5	38.6	38.6	38.6
GE 18000		25.7	27.4	35.9	39.1	39.2	39.8	40.0	40.0	40.2	40.2	40.3	40.3	40.4	40.4	40.4
GE 16000		25.7	27.4	35.9	39.1	39.2	39.8	40.0	40.0	40.2	40.2	40.3	40.3	40.4	40.4	40.4
GE 14000		25.8	27.5	36.0	39.2	39.3	40.0	40.1	40.1	40.3	40.3	40.4	40.4	40.5	40.5	40.5
GE 12000		26.4	28.1	36.7	39.8	40.0	40.6	40.7	40.7	41.0	41.0	41.1	41.1	41.2	41.2	41.2
GE 10000		28.2	30.0	39.3	42.6	42.8	43.5	43.7	43.7	43.9	43.9	44.0	44.0	44.1	44.1	44.1
GE 9000		28.3	30.1	39.4	42.9	43.0	43.8	43.9	43.9	44.1	44.1	44.2	44.2	44.3	44.3	44.3
GE 8000		30.5	32.9	42.6	46.5	46.7	47.5	47.7	47.7	47.9	47.9	48.0	48.0	48.1	48.1	48.1
GE 7000		31.5	34.2	44.7	48.7	48.9	49.7	49.9	49.9	50.2	50.2	50.3	50.3	50.4	50.4	50.4
GE 6000		31.5	34.2	44.7	48.7	48.9	49.7	49.9	49.9	50.2	50.2	50.3	50.3	50.4	50.4	50.4
GE 5000		33.1	36.0	46.6	50.8	51.2	52.2	52.4	52.4	52.6	52.6	52.7	52.7	52.9	52.9	52.9
GE 4500		34.3	37.4	48.0	52.5	52.9	53.9	54.1	54.1	54.4	54.4	54.5	54.5	54.7	54.7	54.7
GE 4000		39.1	42.5	53.8	58.5	58.9	60.0	60.4	60.4	60.7	60.7	60.8	60.8	60.9	60.9	60.9
GE 3500		40.9	44.9	56.3	61.3	61.7	63.0	63.4	63.4	63.7	63.7	63.9	63.9	64.0	64.0	64.0
GE 3000		49.9	54.2	66.8	72.8	73.4	74.7	75.2	75.2	75.6	75.6	75.8	75.8	75.9	75.9	75.9
GE 2500		52.5	57.2	70.9	77.6	78.2	79.7	80.1	80.1	80.6	80.6	80.7	80.7	80.8	80.8	80.8
GE 2000		54.9	59.8	73.8	81.3	82.4	84.1	84.7	84.7	85.2	85.2	85.3	85.3	85.4	85.4	85.4
GE 1800		55.0	59.9	74.3	81.8	82.9	84.6	85.3	85.3	85.7	85.7	85.9	85.9	86.0	86.0	86.0
GE 1500		56.1	61.2	77.3	85.6	86.9	88.7	89.3	89.3	89.9	89.9	90.0	90.0	90.1	90.1	90.1
GE 1200		56.9	62.3	79.5	88.0	89.2	91.0	91.9	91.9	92.5	92.5	92.6	92.6	92.7	92.7	92.7
GE 1000		57.1	62.6	80.5	89.8	91.0	93.3	94.2	94.2	95.1	95.1	95.2	95.2	95.3	95.3	95.3
GE 900		57.2	62.7	80.7	90.1	91.4	93.6	94.6	94.6	95.5	95.5	95.6	95.6	95.7	95.7	95.7
GE 800		57.2	62.7	80.9	90.5	91.7	93.9	94.9	94.9	95.8	95.8	96.0	96.0	96.1	96.4	96.4
GE 700		57.4	62.9	81.0	90.8	92.0	94.3	95.4	95.5	96.4	96.4	96.5	96.5	96.7	97.1	97.2
GE 600		57.4	62.9	81.0	90.8	92.1	94.7	96.0	96.1	97.0	97.0	97.1	97.1	97.4	97.8	97.9
GE 500		57.4	63.0	81.1	90.9	92.3	94.9	96.4	96.5	97.9	97.9	98.0	98.5	98.9	99.1	99.1
GE 400		57.4	63.0	81.1	90.9	92.3	94.9	96.5	96.6	98.0	98.0	98.1	98.7	99.0	99.2	99.2
GE 300		57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.4	99.7	99.7
GE 200		57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.6	99.8	99.8
GE 100		57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.7	99.9	99.9
GE 0		57.4	63.0	81.1	91.0	92.4	95.1	96.9	97.0	98.3	98.4	98.5	99.1	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
NO CEIL	26.2	27.0	29.4	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
GE 2000	31.3	32.3	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	35.8
GE 1800	32.1	33.1	36.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 1600	32.1	33.1	36.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 1400	32.3	33.3	36.4	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
GE 1200	33.3	34.3	37.4	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 1000	35.1	36.3	39.8	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 900	35.6	36.8	40.4	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 800	37.8	39.4	43.3	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 700	39.3	40.9	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 600	39.4	41.0	45.3	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 500	41.3	42.9	47.5	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 450	42.6	44.3	48.9	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 400	49.6	51.2	56.8	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 350	53.9	55.9	62.3	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 300	68.4	70.8	79.0	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 250	72.6	75.3	84.3	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 200	75.4	78.3	88.8	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 180	75.4	78.3	88.8	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 150	76.9	80.1	91.5	93.5	93.7	93.8	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 120	77.6	81.0	92.9	94.9	95.3	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 100	78.1	81.8	94.3	96.4	96.7	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 90	78.3	82.2	94.7	97.0	97.4	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 80	78.3	82.2	95.1	97.3	97.6	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 70	78.6	82.5	95.5	97.6	98.3	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.1	99.1	99.1
GE 60	78.6	82.5	95.6	97.9	98.4	98.9	99.0	99.0	99.0	99.3	99.3	99.4	99.8	99.8	99.8	99.8
GE 50	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	99.9	99.9	99.9
GE 40	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 30	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 20	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 10	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 0	78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL	1	31.2	31.6	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	
GE 20000		37.5	34.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	
GE 18000		38.8	39.5	41.4	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 16000		38.9	39.6	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	
GE 14000		39.1	39.7	41.6	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 12000		39.6	40.3	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	
GE 10000		41.6	42.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	
GE 9000		42.4	43.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
GE 8000		46.2	47.1	49.4	49.5	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
GE 7000		48.1	49.1	52.3	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	
GE 6000		48.6	49.7	52.6	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 5000		51.0	52.0	55.3	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	
GE 4500		53.4	54.4	57.7	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	
GE 4000		59.8	61.3	65.0	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
GE 3500		65.7	67.3	71.6	72.5	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	
GE 3000		76.2	78.4	84.5	85.4	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
GE 2500		77.9	81.1	86.9	87.8	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	
GE 2000		80.2	83.0	90.7	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1800		80.2	83.0	90.7	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1600		82.1	84.8	92.6	94.4	94.7	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
GE 1400		82.5	85.6	94.5	96.4	96.7	97.0	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	
GE 1000		83.1	86.2	95.6	97.5	97.9	98.3	98.4	98.6	98.6	98.8	98.9	98.9	98.9	98.9	98.9	
GE 900		83.1	86.5	95.8	97.7	98.1	98.5	98.6	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	
GE 800		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.1	99.1	99.2	99.3	99.4	99.4	99.4	99.4	
GE 700		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.1	99.1	99.3	99.4	99.5	99.7	99.7	99.7	
GE 600		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.9	99.9	100.0	100.0	100.0	
GE 500		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	
GE 400		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	
GE 300		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	
GE 200		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	
GE 100		83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 866

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 76-87
MONTH: APP HOURS(LST): 1800-2000

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GT 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		35.6	37.4	39.8	40.3	40.3	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
GE 2000		41.8	43.8	46.9	48.0	48.1	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
GE 1800		43.7	45.8	48.6	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 1600		43.7	45.8	48.8	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 1400		43.7	45.8	48.8	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 1200		43.8	45.9	48.9	50.1	50.2	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
GE 1000		45.2	47.2	50.4	51.5	51.6	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 900		45.8	47.9	51.3	52.5	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 800		50.5	53.2	56.9	58.3	58.4	58.7	58.8	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 700		52.1	54.6	58.7	60.6	60.7	61.3	61.4	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 600		52.8	55.5	59.3	61.3	61.4	61.9	62.1	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 500		55.6	58.7	62.6	64.7	64.8	65.3	65.5	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 450		58.0	61.0	65.2	67.3	67.4	68.1	68.2	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 400		63.3	66.7	71.8	74.0	74.2	75.0	75.1	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 350		66.0	69.8	75.3	77.5	77.9	78.7	78.8	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 300		71.0	74.9	81.4	84.0	84.5	85.5	85.6	85.8	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 250		72.9	76.9	84.3	87.0	87.4	88.4	88.6	88.8	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 200		73.6	78.0	86.3	89.6	90.5	91.5	91.6	91.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 180		74.0	78.4	86.6	89.9	90.6	91.6	92.0	92.2	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 150		74.6	79.2	87.9	91.3	92.2	93.2	93.3	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 120		75.0	79.6	89.4	93.1	94.1	95.1	95.5	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 100		75.7	80.3	90.6	95.1	96.1	97.2	97.6	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 90		75.7	80.3	90.7	95.2	96.3	97.3	97.7	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 80		75.7	80.3	90.9	95.5	96.5	97.6	98.1	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 70		75.7	80.3	90.9	95.5	96.5	97.6	98.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 60		75.7	80.3	90.9	95.5	96.5	97.7	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 50		75.7	80.3	90.9	95.5	96.5	97.7	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 40		75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 30		75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 20		75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 10		75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GER

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

CEILING IN FEET	1 160	GT 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE C
NO CEIL			70.1	40.1	46.2	48.7	49.4	49.8	49.9	49.9	49.9	49.9	50.1	50.2	50.2	50.2
GE 2000			79.2	43.5	50.2	53.1	53.9	54.6	54.9	54.9	54.9	54.9	55.1	55.2	55.2	55.3
GE 1800			39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 1600			39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 1400			39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 1200			40.0	44.3	51.2	54.3	55.1	55.8	56.2	56.2	56.2	56.2	56.3	56.4	56.4	56.5
GE 1000			42.1	46.4	53.3	56.4	57.2	58.0	58.3	58.3	58.5	58.5	58.5	58.6	58.7	58.8
GE 900			42.5	46.8	53.9	57.3	58.1	58.9	59.3	59.3	59.4	59.4	59.4	59.5	59.6	59.7
GE 800			45.4	51.4	58.0	61.4	62.4	63.6	64.1	64.1	64.2	64.2	64.4	64.5	64.5	64.6
GE 700			46.4	51.5	59.5	63.1	64.1	65.4	66.2	66.2	66.3	66.3	66.3	66.4	66.6	66.7
GE 600			46.7	51.8	59.9	63.6	64.6	65.8	66.6	66.6	66.7	66.7	66.7	66.9	67.1	67.2
GE 500			48.6	54.0	62.4	66.5	67.5	68.6	69.6	69.6	69.7	69.7	69.7	69.8	70.0	70.1
GE 450			50.6	55.8	64.5	68.6	69.6	71.2	72.0	72.0	72.1	72.1	72.1	72.2	72.4	72.5
GE 400			53.9	59.7	69.6	73.9	75.0	76.7	77.6	77.6	77.8	77.8	77.9	78.1	78.1	78.2
GE 350			55.8	61.9	72.1	76.6	77.8	79.5	80.4	80.4	80.5	80.5	80.6	80.8	80.8	80.9
GE 300			59.1	65.4	76.5	81.0	82.2	84.0	85.0	85.0	85.1	85.1	85.1	85.2	85.5	85.6
GE 250			60.4	66.9	78.4	83.2	84.3	86.2	87.2	87.2	87.4	87.4	87.4	87.5	87.7	87.9
GE 200			61.3	67.9	81.0	86.4	87.7	89.8	91.1	91.3	91.5	91.5	91.5	91.6	91.8	91.9
GE 180			61.4	68.0	81.3	86.6	88.1	90.1	91.5	91.6	91.8	91.8	91.8	91.9	92.2	92.3
GE 150			62.4	69.1	82.6	88.3	89.6	91.8	93.2	93.3	93.5	93.5	93.5	93.8	94.0	94.1
GE 120			62.9	69.6	83.7	89.3	90.8	92.8	94.6	94.7	95.0	95.0	95.0	95.2	95.5	95.6
GE 100			63.5	70.3	84.8	90.6	92.1	94.2	95.9	96.0	96.4	96.4	96.4	96.6	96.8	96.9
GE 90			63.5	70.3	84.9	90.7	92.2	94.3	96.0	96.1	96.5	96.5	96.5	96.8	97.0	97.2
GE 80			63.6	70.4	85.0	90.9	92.4	94.7	96.5	96.6	97.0	97.0	97.0	97.4	97.6	97.7
GE 70			63.6	70.4	85.1	91.1	92.7	95.2	97.3	97.5	98.0	98.0	98.0	98.3	98.5	98.6
GE 60			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 50			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 40			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 30			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 20			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 10			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3
GE 0			63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.3

TOTAL NUMBER OF OBSERVATIONS: 861

GLOBAL CLIMATOLOGY BRANCH
USAFETAG
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106R70 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

FEET	1	67	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
NO CEIL	1	25.1	27.0	33.3	35.7	36.2	36.9	37.7	37.8	38.1	38.1	38.1	38.2	38.4	38.5	38.9	
GE 20000		28.5	31.3	37.0	40.5	41.1	41.8	42.7	42.8	43.1	43.2	43.2	43.3	43.5	43.7	44.1	
GE 18000		29.3	32.1	38.5	41.4	42.0	42.6	43.7	43.8	44.2	44.2	44.3	44.3	44.5	44.7	45.1	
GE 16000		29.5	32.1	38.5	41.4	42.0	42.6	43.7	43.8	44.2	44.2	44.3	44.3	44.6	44.7	45.1	
GE 14000		29.4	32.2	38.6	41.5	42.1	42.9	43.8	43.9	44.3	44.3	44.3	44.4	44.6	44.6	45.2	
GE 12000		30.0	32.6	39.3	42.2	42.6	43.7	44.5	44.6	45.0	45.0	45.1	45.2	45.4	45.5	46.0	
GE 10000		31.8	34.6	41.5	44.6	45.2	46.2	47.1	47.2	47.6	47.6	47.7	47.8	48.0	48.2	48.7	
GE 9000		32.2	35.0	42.0	45.2	45.9	46.9	47.8	47.9	48.3	48.3	48.4	48.5	48.8	48.9	49.4	
GE 8000		35.1	38.5	46.6	49.5	50.2	51.3	52.3	52.4	52.9	52.9	53.1	53.2	53.4	53.5	54.0	
GE 7000		36.2	39.7	47.9	51.6	52.4	53.6	54.7	54.8	55.4	55.4	55.5	55.6	55.9	56.0	56.5	
GE 6000		36.5	40.0	48.3	52.0	52.6	54.0	55.1	55.2	55.8	55.8	55.9	56.0	56.3	56.4	56.9	
GE 5000		38.8	42.5	51.1	55.0	55.9	57.2	58.5	58.6	59.2	59.2	59.3	59.4	59.7	59.9	60.4	
GE 4500		40.3	44.1	52.9	57.2	58.1	59.6	60.9	61.0	61.7	61.7	61.8	61.9	62.2	62.4	62.9	
GE 4000		44.4	48.5	58.3	62.8	63.8	65.4	66.9	67.1	67.7	67.7	67.9	68.0	68.3	68.4	69.0	
GE 3500		47.1	51.5	61.8	66.5	67.6	69.3	70.8	71.0	71.6	71.7	71.9	72.0	72.3	72.4	73.0	
GE 3000		53.3	57.9	69.4	74.6	75.8	77.5	79.1	79.3	80.2	80.2	80.5	80.6	80.9	81.0	81.5	
GE 2500		55.1	59.9	72.0	77.4	78.6	80.4	82.1	82.3	83.2	83.2	83.4	83.5	83.9	84.0	84.5	
GE 2000		56.5	61.6	74.6	80.5	82.0	83.9	85.8	86.0	87.0	87.0	87.3	87.4	87.7	87.8	88.4	
GE 1800		56.7	61.7	75.0	80.9	82.4	84.4	86.2	86.5	87.4	87.5	87.7	87.8	88.1	88.3	88.8	
GE 1600		57.8	63.0	77.0	83.5	85.1	87.2	89.3	89.5	90.5	90.6	90.8	90.9	91.3	91.4	91.9	
GE 1400		58.3	63.7	78.4	85.0	86.7	88.9	91.1	91.4	92.4	92.5	92.7	92.9	93.2	93.3	93.9	
GE 1200		58.6	64.3	79.5	86.4	88.1	90.4	92.7	93.1	94.2	94.3	94.6	94.7	95.0	95.2	95.8	
GE 1000		58.9	64.4	79.7	86.7	88.4	90.7	93.0	93.4	94.5	94.6	94.9	95.1	95.4	95.5	96.1	
GE 900		58.9	64.4	79.9	87.0	88.7	91.2	93.6	93.9	95.1	95.2	95.5	95.7	96.0	96.2	96.8	
GE 800		59.0	64.5	80.1	87.3	89.1	91.6	94.2	94.6	95.9	96.0	96.3	96.5	96.9	97.0	97.6	
GE 700		59.0	64.5	80.2	87.4	89.2	91.9	94.6	95.0	96.3	96.4	96.9	97.1	97.5	97.7	98.3	
GE 600		59.0	64.5	80.2	87.4	89.2	92.0	94.8	95.2	96.7	96.8	97.4	97.7	98.1	98.3	98.9	
GE 500		59.0	64.5	80.2	87.4	89.2	92.0	94.8	95.2	96.8	96.9	97.5	97.8	98.2	98.4	99.0	
GE 400		59.0	64.5	80.2	87.4	89.2	92.0	94.9	95.3	96.9	97.0	97.6	98.0	98.4	98.6	99.2	
GE 300		59.0	64.5	80.2	87.4	89.2	92.1	94.9	95.3	96.9	97.1	97.7	98.1	98.5	98.8	99.5	
GE 200		59.0	64.5	80.2	87.4	89.2	92.1	94.9	95.3	96.9	97.1	97.7	98.1	98.6	98.9	99.8	
GE 100		59.0	64.6	80.3	87.5	89.3	92.1	95.0	95.4	97.0	97.1	97.7	98.1	98.6	98.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7087

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24
NO CEIL		32.6	37.5	43.9	46.1	46.6	47.6	48.6	48.6	49.5	49.6	49.6	50.1	50.8	51.5	52.5
GE 20000		35.4	43.7	47.6	49.9	50.4	51.4	52.4	52.4	53.4	53.5	53.5	54.0	54.7	55.4	56.4
GE 18000		36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 16000		36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 14000		36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 12000		36.8	42.2	49.5	51.9	52.4	53.4	54.4	54.4	55.3	55.4	55.4	56.0	56.6	57.4	58.4
GE 10000		38.1	43.5	51.0	53.6	54.1	55.2	56.2	56.2	57.2	57.3	57.3	57.8	58.5	59.3	60.2
GE 9000		39.7	44.0	51.5	54.1	54.7	55.8	56.8	56.8	57.7	57.8	57.8	58.4	59.0	59.8	60.8
GE 8000		40.4	46.2	54.9	57.7	58.3	59.4	60.5	60.5	61.5	61.7	61.7	62.2	62.9	63.6	64.7
GE 7000		42.5	46.5	57.4	60.2	60.8	61.9	63.0	63.0	64.1	64.2	64.2	64.7	65.4	66.1	67.2
GE 6000		42.5	48.5	57.6	60.5	61.0	62.1	63.2	63.2	64.3	64.4	64.4	64.9	65.6	66.3	67.4
GE 5000		44.2	51.1	61.0	63.8	64.4	65.6	66.8	66.8	67.9	68.0	68.0	68.5	69.2	69.9	71.0
GE 4500		44.7	51.9	62.2	65.3	65.8	67.0	68.2	68.2	69.3	69.4	69.4	69.9	70.7	71.5	72.5
GE 4000		47.1	54.8	65.9	69.1	69.6	71.5	72.7	72.7	73.7	73.9	73.9	74.4	75.2	75.9	77.0
GE 3500		48.4	56.2	67.4	71.1	71.7	73.5	74.7	74.7	75.9	76.0	76.0	76.6	77.3	78.1	79.2
GE 3000		50.6	58.9	71.2	75.4	75.9	78.2	79.5	79.5	80.9	81.0	81.0	81.6	82.5	83.2	84.3
GE 2500		51.5	59.7	72.1	76.9	77.5	79.7	81.2	81.4	82.8	82.9	82.9	83.4	84.3	85.1	86.2
GE 2000		52.5	60.9	73.9	79.3	80.1	82.6	84.1	84.3	85.7	85.8	85.8	86.4	87.3	88.0	89.1
GE 1800		52.6	61.0	74.0	79.4	80.2	82.8	84.3	84.5	85.9	86.1	86.1	86.6	87.5	88.2	89.3
GE 1500		53.2	62.1	75.6	81.3	82.1	85.0	86.8	87.0	88.7	88.8	88.8	89.3	90.2	91.0	92.0
GE 1200		54.2	63.5	77.5	83.3	84.3	87.4	89.2	89.4	91.1	91.2	91.2	91.7	92.6	93.4	94.4
GE 1000		54.6	64.3	78.8	84.7	85.7	89.1	91.0	91.2	92.6	92.9	92.9	93.5	94.3	95.1	96.2
GE 900		54.6	64.3	78.8	84.7	85.7	89.1	91.0	91.2	92.6	92.9	92.9	93.5	94.3	95.1	96.2
GE 800		54.6	64.3	78.9	84.9	85.8	89.2	91.1	91.3	92.9	93.0	93.0	93.6	94.4	95.2	96.3
GE 700		54.7	64.4	79.3	85.3	86.3	89.7	91.9	92.2	93.8	93.9	93.9	94.4	95.3	96.1	97.2
GE 600		54.7	64.4	79.4	85.7	86.7	90.1	92.4	92.6	94.2	94.3	94.3	94.9	95.8	96.5	97.6
GE 500		54.7	64.6	80.3	86.7	87.9	91.3	93.7	93.9	95.6	95.9	95.9	96.4	97.3	98.0	99.1
GE 400		54.8	64.7	80.5	87.0	88.2	91.6	94.0	94.2	96.0	96.2	96.2	96.7	97.6	98.4	99.5
GE 300		54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	99.9
GE 200		54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	100.0
GE 100		54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING	VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		14.8	18.5	24.4	28.4	29.7	31.9	35.0	35.4	37.0	37.0	37.6	38.1	38.8	39.9	41.7
GE 2000		15.1	19.0	25.9	30.1	31.6	34.1	37.1	37.7	39.3	39.3	39.9	40.4	41.2	42.3	44.2
GE 1800		15.7	19.8	27.0	31.2	32.7	35.2	38.2	38.8	40.4	40.4	41.0	41.5	42.3	43.4	45.3
GE 1600		15.9	20.0	27.2	31.4	32.9	35.4	38.5	39.0	40.6	40.6	41.2	41.7	42.5	43.6	45.5
GE 1400		15.9	20.0	27.2	31.4	32.9	35.4	38.5	39.0	40.6	40.6	41.2	41.7	42.5	43.6	45.5
GE 1200		16.0	20.3	27.6	31.8	33.3	35.8	38.9	39.4	41.1	41.1	41.6	42.2	42.9	44.0	46.1
GE 1000		17.8	22.3	30.2	34.6	36.2	38.9	42.0	42.6	44.4	44.4	45.0	45.6	46.4	47.5	49.7
GE 900		18.0	22.8	30.7	35.2	36.7	39.5	42.7	43.2	45.1	45.1	45.6	46.3	47.1	48.1	50.3
GE 800		19.6	24.9	33.6	38.9	40.6	44.2	47.8	48.5	50.8	50.8	51.3	52.0	53.2	54.4	56.6
GE 700		20.9	26.5	35.5	41.2	42.9	46.5	50.1	50.8	53.4	53.4	53.9	54.6	55.8	57.0	59.3
GE 600		21.1	26.7	35.7	41.4	43.4	46.9	50.5	51.2	53.8	53.8	54.4	55.0	56.2	57.4	59.7
GE 500		23.5	29.2	39.0	44.7	46.6	50.2	53.9	54.6	57.2	57.2	57.8	58.5	59.8	61.0	63.3
GE 450		24.1	30.5	41.3	47.5	49.6	53.4	57.2	57.8	60.6	60.6	61.2	61.9	63.2	64.4	66.7
GE 400		25.7	32.7	45.0	51.9	54.0	58.1	62.4	63.1	65.9	66.0	66.7	67.3	68.6	69.8	72.1
GE 350		26.1	33.3	45.9	52.8	55.0	59.0	63.5	64.2	67.0	67.1	67.6	68.4	69.7	70.9	73.2
GE 300		28.9	36.9	50.1	58.0	60.2	64.5	69.1	69.7	72.7	72.8	73.4	74.1	75.4	76.6	79.0
GE 250		29.7	37.9	51.5	59.7	62.0	66.4	71.2	71.9	74.9	75.1	75.7	76.4	77.7	78.9	81.4
GE 200		30.1	38.8	53.1	61.3	63.6	68.2	73.1	73.7	76.9	77.0	77.7	78.3	79.6	80.8	83.3
GE 180		30.5	39.2	53.8	62.1	64.4	69.0	73.9	74.5	77.7	77.8	78.4	79.1	80.4	81.6	84.1
GE 150		31.0	40.1	55.3	63.6	66.0	70.9	76.1	76.8	80.2	80.3	80.9	81.6	82.9	84.1	86.6
GE 120		32.1	41.3	57.0	65.5	68.1	73.1	78.4	79.1	82.6	82.7	83.4	84.1	85.4	86.6	89.1
GE 100		33.0	42.4	58.6	67.4	70.0	75.2	80.6	81.3	84.7	84.9	85.6	86.3	87.6	88.9	91.4
GE 90		33.1	42.5	58.9	67.9	70.7	75.9	81.6	82.4	85.8	85.9	86.7	87.4	88.7	90.0	92.5
GE 80		33.1	42.5	59.2	68.3	71.2	76.6	82.2	83.0	86.6	86.7	87.5	88.1	89.4	90.7	93.2
GE 70		33.3	42.8	59.5	68.7	71.7	77.0	82.9	83.8	87.5	87.6	88.3	89.0	90.3	91.6	94.1
GE 60		33.3	42.8	59.6	69.2	72.4	78.0	83.9	85.0	88.7	88.8	89.5	90.2	91.5	92.8	95.3
GE 50		33.3	42.8	60.0	69.4	72.6	78.4	84.5	85.6	89.3	89.5	90.3	91.0	92.3	93.6	96.1
GE 40		33.3	42.8	60.0	69.4	73.0	78.8	85.0	86.1	90.1	90.3	91.1	91.7	93.0	94.3	96.8
GE 30		33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.8	97.9
GE 20		33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.9	98.1
GE 10		33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.9	98.1
GE 0		33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	95.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		17.9	20.7	25.6	29.0	30.2	32.5	33.4	33.8	34.4	34.4	34.7	34.8	35.5	36.3	36.7	
GE 20000		19.8	23.1	29.1	32.9	34.4	36.8	38.0	38.3	39.0	39.0	39.6	39.7	40.4	41.2	42.1	
GE 18000		20.8	24.2	31.1	34.8	36.4	38.7	39.9	40.3	41.0	41.0	41.7	41.8	42.4	43.3	44.2	
GE 16000		20.9	24.4	31.2	35.0	36.5	38.9	40.0	40.4	41.1	41.1	41.6	41.9	42.5	43.4	44.3	
GE 14000		20.9	24.4	31.2	35.0	36.5	38.9	40.0	40.4	41.1	41.1	41.6	41.9	42.5	43.4	44.3	
GE 12000		20.9	24.4	31.3	35.1	36.6	39.0	40.2	40.5	41.2	41.2	41.9	42.0	42.6	43.5	44.4	
GE 10000		22.7	26.6	34.0	38.0	39.5	42.0	43.2	43.5	44.3	44.3	45.1	45.2	45.9	46.8	47.6	
GE 9000		23.1	26.9	34.4	38.4	39.9	42.5	43.8	44.2	44.9	44.9	45.9	46.0	46.6	47.5	48.4	
GE 8000		25.0	30.1	38.4	43.2	44.7	47.7	49.2	49.7	50.5	50.5	51.5	51.6	52.3	53.1	54.1	
GE 7000		26.8	32.8	41.6	46.5	48.3	51.6	53.2	53.8	54.9	55.0	56.1	56.2	56.8	57.7	58.7	
GE 6000		27.1	33.0	41.9	46.9	48.6	51.9	53.6	54.1	55.2	55.3	56.4	56.5	57.1	58.0	59.0	
GE 5000		28.8	35.1	44.0	49.0	50.9	54.2	55.8	56.4	57.5	57.6	58.8	58.9	59.5	60.4	61.4	
GE 4500		29.3	35.7	45.1	50.2	52.2	55.5	57.5	58.0	59.2	59.3	60.6	60.7	61.4	62.2	63.2	
GE 4000		31.1	37.6	48.2	54.0	56.4	59.8	62.0	62.6	63.7	63.9	65.2	65.3	66.0	66.9	67.9	
GE 3500		31.6	38.1	49.6	55.7	58.1	61.7	63.9	64.4	65.7	65.8	67.1	67.2	68.0	68.8	69.6	
GE 3000		33.2	39.8	52.2	58.7	61.3	64.8	67.1	67.6	69.0	69.2	70.5	70.6	71.3	72.3	73.3	
GE 2500		34.2	40.9	53.9	60.4	63.1	66.8	69.2	69.7	71.3	71.4	72.8	72.9	73.7	74.7	75.6	
GE 2000		35.2	42.3	55.7	62.4	65.2	69.0	71.5	72.1	73.9	74.0	75.4	75.5	76.4	77.4	78.4	
GE 1800		35.5	42.9	56.4	63.1	65.6	69.7	72.2	72.7	74.6	74.7	76.1	76.2	77.1	78.0	79.0	
GE 1600		37.9	45.7	60.5	67.7	70.5	74.5	77.2	77.7	79.5	79.7	81.1	81.2	82.0	83.0	84.0	
GE 1200		39.4	47.5	62.9	70.7	73.6	78.0	80.7	81.3	83.1	83.2	84.6	84.7	85.6	86.6	87.6	
GE 1000		40.3	48.5	64.3	72.7	75.9	80.3	83.1	83.7	85.6	85.7	87.1	87.2	88.1	89.1	90.0	
GE 900		40.4	48.6	64.5	73.2	76.5	81.2	84.2	84.7	86.7	86.8	88.2	88.3	89.2	90.2	91.1	
GE 800		40.4	48.6	64.6	73.6	77.1	81.7	84.6	85.4	87.3	87.4	88.9	89.0	89.8	90.8	91.8	
GE 700		40.5	48.7	65.0	74.2	77.7	82.9	86.3	86.9	89.0	89.1	90.5	90.6	91.5	92.4	93.4	
GE 600		40.6	48.8	65.5	75.2	78.6	84.2	87.7	88.2	90.4	90.5	91.9	92.0	92.9	93.8	94.8	
GE 500		40.7	48.9	65.6	75.3	79.3	85.4	89.0	89.6	91.9	92.0	93.4	93.5	94.5	95.5	96.4	
GE 400		40.7	48.9	65.6	75.3	79.4	85.6	89.6	90.3	92.6	92.7	94.2	94.3	95.3	96.3	97.3	
GE 300		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	92.9	94.3	94.4	95.7	96.6	97.9	
GE 200		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.2	98.9	
GE 100		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.2	99.8	
GE 0		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 1C697C STATION NAME: GRAFENLOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(IST): 0900-1100

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		28.0	24.7	31.0	31.3	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
GE 20000		33.2	34.0	37.1	37.4	37.4	37.4	37.5	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.6	
GE 18000		33.9	34.6	38.1	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	
GE 16000		34.3	35.1	38.5	38.8	38.8	38.8	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0	
GE 14000		34.5	35.3	38.7	39.0	39.0	39.0	39.1	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2	
GE 12000		35.4	36.1	39.9	40.2	40.2	40.2	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	
GE 10000		37.3	38.1	42.4	42.7	42.7	42.7	42.8	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9	
GE 9000		38.3	39.0	43.3	43.8	43.8	43.8	43.9	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	
GE 8000		42.7	43.5	48.6	49.2	49.2	49.2	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	
GE 7000		45.8	47.0	52.3	53.2	53.2	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	
GE 6000		46.1	47.3	52.7	53.7	53.7	53.7	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	
GE 5000		48.2	49.4	54.8	55.8	55.8	55.8	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	
GE 4500		49.1	50.3	56.1	57.1	57.1	57.1	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	
GE 4000		51.9	53.1	59.1	60.4	60.4	60.4	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
GE 3500		54.1	55.5	61.7	63.1	63.1	63.1	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	
GE 3000		63.1	64.7	71.9	73.8	74.1	74.2	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	
GE 2500		66.1	68.1	75.5	77.4	78.0	78.2	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	
GE 2000		67.8	70.0	78.6	80.9	81.5	81.8	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	
GE 1800		69.2	71.4	80.4	82.7	83.3	83.7	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	
GE 1500		72.8	75.8	85.4	88.0	88.8	89.1	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	
GE 1200		74.3	77.7	88.1	90.9	92.0	92.6	93.3	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	
GE 1000		74.8	78.3	89.4	92.5	93.8	94.6	95.4	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	
GE 900		74.9	78.4	89.7	92.9	94.2	95.4	96.1	96.1	96.6	96.7	96.7	96.7	96.7	96.7	96.7	
GE 800		75.2	78.6	90.2	93.4	94.7	96.0	96.8	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	
GE 700		75.3	78.7	90.4	94.1	95.4	96.7	97.4	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
GE 600		75.5	79.0	91.2	94.7	96.0	97.4	98.2	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	
GE 500		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
GE 400		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
GE 300		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
GE 200		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
GE 100		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
GE 0		75.7	79.2	91.5	95.2	96.6	98.1	98.9	98.9	99.5	99.6	99.7	99.7	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(DLST): 1200-1400

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		28.7	28.8	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
GE 20000		33.9	34.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	
GE 18000		34.6	34.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	
GE 16000		35.1	35.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	
GE 14000		35.4	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
GE 12000		36.2	36.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	
GE 10000		39.2	39.7	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	
GE 9000		40.2	40.6	41.4	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 8000		43.9	44.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	
GE 7000		47.4	48.1	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	
GE 6000		48.0	48.7	50.2	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	
GE 5000		50.3	51.1	52.6	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
GE 4500		52.5	53.3	55.1	55.1	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
GE 4000		58.9	59.8	61.7	62.0	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	
GE 3500		63.7	64.5	66.7	67.0	67.0	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
GE 3000		77.8	78.8	81.4	82.3	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	
GE 2500		82.6	83.7	86.3	87.2	87.2	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	
GE 2000		85.3	86.9	90.3	91.6	91.6	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	
GE 1800		85.8	87.4	91.2	92.5	92.5	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1500		87.7	89.6	93.8	95.2	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
GE 1200		88.7	90.5	95.1	97.0	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	
GE 1000		88.9	90.8	95.3	97.5	97.5	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	
GE 900		89.0	90.9	95.5	97.7	97.7	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
GE 800		89.2	91.1	95.9	98.3	98.3	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
GE 700		89.2	91.1	96.0	98.5	98.5	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
GE 600		89.2	91.1	96.0	98.6	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 500		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 400		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 300		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 200		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 100		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 01		89.2	91.2	96.2	98.8	98.9	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
LSAFLTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS																
IN FEET	1 160	GE 90	GE 80	GE 70	GE 60	GE 50	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	I	27.8	27.8	28.6	28.6	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 20000	I	37.4	37.6	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	
GE 18000	I	38.2	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	
GE 16000	I	38.2	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	
GE 14000	I	38.8	39.1	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	
GE 12000	I	39.7	39.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	
GE 10000	I	42.4	42.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	
GE 9000	I	43.4	43.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
GE 8000	I	49.1	49.8	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	51.1	
GE 7000	I	52.8	53.6	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	
GE 6000	I	53.2	54.0	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	
GE 5000	I	56.1	57.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
GE 4500	I	58.6	59.5	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	
GE 4000	I	63.9	65.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
GE 3500	I	70.1	72.1	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	
GE 3000	I	81.6	84.3	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	
GE 2500	I	84.6	87.1	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	
GE 2000	I	86.6	89.6	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	
GE 1800	I	86.9	90.0	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
GE 1500	I	88.1	91.3	96.5	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
GE 1200	I	88.5	92.0	97.8	98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
GE 1000	I	88.6	92.1	98.0	98.8	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
GE 900	I	88.7	92.2	98.2	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
GE 800	I	88.7	92.2	98.2	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
GE 700	I	88.7	92.2	98.4	99.2	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 600	I	88.7	92.2	98.4	99.2	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 500	I	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 400	I	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 300	I	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 200	I	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 100	I	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE	NI	88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		75.7	36.4	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.1
GE 20000		45.5	46.3	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.3	47.3	47.3	47.3
GE 18000		46.8	47.8	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.9	48.9	48.9	48.9
GE 16000		46.9	47.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0
GE 14000		47.3	48.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4
GE 12000		48.6	49.6	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.4	51.4	51.4	51.4
GE 10000		51.7	53.2	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8
GE 9000		53.5	55.0	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7
GE 8000		58.6	60.8	62.6	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2
GE 7000		62.4	64.9	67.1	67.4	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9	67.9	67.9
GE 6000		62.8	65.4	67.5	67.9	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3
GE 5000		67.1	70.0	72.7	73.3	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7
GE 4500		68.5	71.4	74.4	75.0	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5
GE 4000		72.4	75.5	78.8	79.7	79.9	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3
GE 3500		75.1	78.5	82.1	83.0	83.2	83.4	83.4	83.4	83.5	83.5	83.5	83.6	83.6	83.6	83.6
GE 3000		79.3	83.0	87.1	88.1	88.3	88.5	88.5	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
GE 2500		80.6	84.6	89.1	90.3	90.6	90.8	90.8	90.9	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 2000		82.1	86.1	91.1	92.4	92.7	93.2	93.2	93.3	93.5	93.5	93.5	93.6	93.6	93.6	93.6
GE 1800		82.1	86.1	91.6	92.9	93.3	93.7	93.7	93.8	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 1500		82.7	87.1	92.8	94.6	94.9	95.3	95.3	95.4	95.7	95.7	95.7	95.8	95.8	95.8	95.8
GE 1200		83.1	87.5	94.7	97.2	97.5	97.9	98.2	98.3	98.5	98.5	98.5	98.6	98.6	98.6	98.6
GE 1000		83.4	87.8	95.2	97.7	98.0	98.5	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 900		83.4	87.8	95.2	97.7	98.0	98.5	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 800		83.4	87.8	95.2	97.7	98.3	98.7	98.9	99.0	99.3	99.3	99.3	99.5	99.5	99.5	99.5
GE 700		83.4	87.8	95.2	97.7	98.3	98.7	99.0	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6
GE 600		83.4	87.8	95.2	97.7	98.4	98.6	99.1	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 500		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 0		83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CLIL	1		42.4	45.8	49.6	50.0	50.0	50.2	50.4	50.7	50.8	51.0	51.0	51.0	51.3	51.4	51.7
GE 20000			47.5	51.0	54.9	55.4	55.4	55.6	55.9	56.1	56.2	56.4	56.4	56.4	56.7	56.8	57.2
GE 18000			49.0	52.7	56.8	57.4	57.4	57.6	57.8	58.0	58.1	58.4	58.4	58.4	58.7	58.8	59.1
GE 16000			49.0	52.7	56.8	57.4	57.4	57.6	57.8	58.0	58.1	58.4	58.4	58.4	58.7	58.8	59.1
GE 14000			49.0	52.7	56.9	57.5	57.5	57.7	57.9	58.1	58.2	58.5	58.5	58.5	58.8	58.9	59.2
GE 12000			50.0	53.8	58.0	58.6	58.6	58.8	59.0	59.2	59.3	59.5	59.5	59.5	59.9	60.0	60.3
GE 10000			51.2	55.3	59.9	60.4	60.4	60.7	61.0	61.2	61.3	61.5	61.5	61.5	61.8	61.9	62.3
GE 9000			52.3	56.4	61.0	61.5	61.5	61.8	62.0	62.3	62.4	62.6	62.6	62.6	62.9	63.0	63.3
GE 8000			56.0	61.2	66.3	66.9	66.9	67.2	67.5	67.7	67.8	68.0	68.0	68.0	68.3	68.4	68.8
GE 7000			57.3	62.8	67.9	68.5	68.5	68.9	69.1	69.3	69.4	69.6	69.6	69.6	70.0	70.1	70.4
GE 6000			57.4	62.9	68.1	68.8	68.8	69.1	69.3	69.5	69.6	69.8	69.8	69.8	70.2	70.3	70.6
GE 5000			61.0	66.9	72.8	73.4	73.4	73.8	74.4	74.6	74.7	74.9	74.9	74.9	75.3	75.4	75.7
GE 4500			61.6	67.6	73.5	74.2	74.2	74.5	75.2	75.4	75.5	75.7	75.7	75.7	76.0	76.1	76.5
GE 4000			64.0	70.5	76.8	77.8	77.8	78.2	78.9	79.1	79.4	79.6	79.6	79.6	79.9	80.0	80.4
GE 3500			66.3	73.0	79.6	80.9	80.9	81.3	82.0	82.2	82.5	82.8	82.8	82.8	83.1	83.2	83.5
GE 3000			68.8	75.8	83.2	84.7	84.8	85.7	86.3	86.8	87.2	87.4	87.4	87.4	87.7	87.9	88.2
GE 2500			69.3	76.7	84.8	86.7	86.8	87.7	88.4	88.8	89.3	89.5	89.5	89.5	89.8	89.9	90.2
GE 2000			69.8	77.2	85.8	88.0	88.2	89.6	90.3	90.8	91.3	91.5	91.5	91.5	91.9	92.0	92.3
GE 1800			70.0	77.3	85.9	88.1	88.3	89.7	90.5	90.9	91.4	91.6	91.6	91.6	92.0	92.1	92.4
GE 1500			70.3	78.0	87.1	89.5	89.7	91.1	91.9	92.3	92.8	93.1	93.1	93.1	93.4	93.5	93.8
GE 1200			70.9	78.6	88.6	91.3	91.5	93.3	94.1	94.7	95.3	95.6	95.6	95.6	95.9	96.0	96.3
GE 1000			70.9	78.6	89.2	92.1	92.3	94.3	95.1	95.7	96.3	96.5	96.5	96.5	96.9	97.0	97.3
GE 900			70.9	78.6	89.4	92.3	92.5	94.5	95.3	95.9	96.5	96.7	96.7	96.7	97.1	97.2	97.5
GE 800			70.9	78.6	89.6	92.6	92.8	94.9	95.8	96.3	97.2	97.4	97.4	97.4	97.7	97.8	98.2
GE 700			71.0	78.7	89.7	92.8	93.1	95.4	96.3	96.9	97.7	97.9	97.9	97.9	98.3	98.4	98.7
GE 600			71.1	78.9	90.1	93.3	93.5	95.9	96.7	97.3	98.1	98.5	98.5	98.5	98.8	98.9	99.2
GE 500			71.1	79.2	90.5	93.6	93.8	96.2	97.1	97.6	98.7	98.9	98.9	98.9	99.2	99.3	99.7
GE 400			71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 300			71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 200			71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 100			71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 0			71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 942

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

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GF 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE C	
NO CEIL		28.5	30.5	33.6	34.9	35.3	36.0	36.7	36.8	37.2	37.3	37.4	37.5	37.8	38.1	38.6	
GE 20000		33.5	35.7	39.4	40.7	41.2	41.9	42.6	42.8	43.2	43.2	43.4	43.5	43.8	44.2	44.7	
GE 18000		34.4	36.8	40.6	42.0	42.5	43.2	43.9	44.0	44.5	44.5	44.7	44.8	45.1	45.5	46.0	
GE 16000		34.6	36.9	40.8	42.2	42.6	43.4	44.1	44.2	44.7	44.7	44.8	45.0	45.3	45.7	46.2	
GE 14000		34.8	37.1	41.0	42.4	42.8	43.6	44.3	44.4	44.9	44.9	45.1	45.2	45.5	45.9	46.4	
GE 12000		35.5	37.8	41.9	43.3	43.8	44.5	45.2	45.4	45.8	45.9	46.0	46.2	46.5	46.8	47.3	
GE 10000		37.6	40.2	44.5	46.0	46.5	47.3	48.0	48.1	48.6	48.7	48.8	49.0	49.3	49.7	50.2	
GE 9000		38.4	41.1	45.5	47.0	47.4	48.3	49.0	49.1	49.6	49.6	49.8	50.0	50.3	50.7	51.2	
GE 8000		41.9	45.1	50.1	51.9	52.4	53.4	54.2	54.4	55.0	55.0	55.2	55.4	55.7	56.1	56.7	
GE 7000		44.5	48.0	53.3	55.2	55.7	56.8	57.6	57.8	58.4	58.5	58.7	58.9	59.2	59.6	60.2	
GE 6000		44.8	48.3	53.7	55.6	56.2	57.3	58.1	58.3	58.9	58.9	59.1	59.3	59.7	60.0	60.6	
GE 5000		47.4	51.2	57.0	58.9	59.5	60.6	61.5	61.7	62.3	62.4	62.6	62.8	63.1	63.5	64.1	
GE 4500		48.6	52.5	58.6	60.7	61.3	62.4	63.4	63.6	64.2	64.3	64.5	64.7	65.1	65.5	66.0	
GE 4000		51.9	56.2	62.9	65.3	66.0	67.3	68.4	68.6	69.3	69.3	69.6	69.7	70.1	70.5	71.1	
GE 3500		54.5	58.9	66.0	68.5	69.2	70.5	71.7	71.8	72.6	72.6	72.9	73.0	73.4	73.8	74.4	
GE 3000		60.5	65.3	73.1	76.1	76.6	78.3	79.5	79.7	80.5	80.5	80.8	81.0	81.4	81.7	82.3	
GE 2500		62.4	67.4	75.6	78.8	79.6	81.1	82.3	82.6	83.4	83.5	83.7	83.9	84.3	84.7	85.3	
GE 2000		63.7	69.0	77.8	81.3	82.1	83.8	85.1	85.4	86.3	86.3	86.6	86.8	87.2	87.6	88.2	
GE 1800		64.1	69.5	78.5	81.9	82.8	84.5	85.8	86.0	87.0	87.0	87.3	87.5	87.9	88.3	88.9	
GE 1500		65.5	71.2	80.9	84.6	85.6	87.3	88.8	89.0	90.0	90.1	90.3	90.5	90.9	91.3	91.9	
GE 1200		66.5	72.4	82.7	86.8	87.9	89.9	91.4	91.6	92.7	92.7	93.0	93.2	93.6	94.0	94.6	
GE 1000		66.9	72.9	83.6	88.0	89.1	91.2	92.7	92.9	94.0	94.1	94.3	94.5	94.9	95.3	95.9	
GE 900		66.9	73.0	83.8	88.2	89.4	91.6	93.2	93.4	94.5	94.6	94.8	95.0	95.4	95.8	96.4	
GE 800		67.0	73.0	84.0	88.5	89.7	92.0	93.6	93.8	94.9	95.0	95.3	95.5	95.9	96.3	96.9	
GE 700		67.1	73.1	84.3	88.9	90.1	92.4	94.1	94.4	95.6	95.7	95.9	96.1	96.5	96.9	97.5	
GE 600		67.1	73.2	84.5	89.2	90.5	93.0	94.7	95.0	96.2	96.3	96.5	96.7	97.1	97.5	98.1	
GE 500		67.1	73.3	84.7	89.5	90.9	93.5	95.3	95.6	96.8	96.9	97.2	97.4	97.8	98.2	98.8	
GE 400		67.2	73.3	84.8	89.6	91.0	93.6	95.5	95.8	97.1	97.2	97.5	97.6	98.1	98.5	99.1	
GE 300		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.7	98.2	98.6	99.4	
GE 200		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.7	99.6	
GE 100		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.7	99.9	
GE 01		67.2	73.3	84.8	89.6	91.1	93.7	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7390

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-84
MONTH: JUN FOUR(SILST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	10	16	20	24	28	32	36	40	48	56	64	72	80	88	96	100
NO CEIL	35.5	38.4	45.0	47.7	48.4	49.6	51.2	51.2	51.6	52.0	52.3	52.6	52.8	53.1	53.2	
GE 20000	38.5	41.6	48.7	51.5	52.2	53.6	55.2	55.2	55.9	56.0	56.5	56.7	56.9	57.3	57.4	
GE 18000	39.2	42.3	49.3	52.1	52.9	54.2	55.9	55.9	56.6	56.7	57.1	57.4	57.6	57.9	58.0	
GE 16000	39.2	42.3	49.4	52.2	53.0	54.4	56.0	56.0	56.7	56.8	57.3	57.5	57.7	58.0	58.1	
GE 14000	39.5	42.6	49.8	52.6	53.5	54.8	56.5	56.5	57.1	57.3	57.7	57.9	58.1	58.5	58.6	
GE 12000	40.5	43.8	51.0	54.0	55.0	56.4	58.0	58.0	58.7	58.8	59.3	59.5	59.7	60.0	60.2	
GE 10000	43.8	47.2	54.6	57.6	58.6	59.9	61.6	61.6	62.3	62.4	62.8	63.1	63.4	63.7	63.8	
GE 9000	44.3	47.8	55.1	58.1	59.2	60.6	62.4	62.4	63.1	63.2	63.6	63.8	64.2	64.5	64.6	
GE 8000	46.5	50.6	58.8	61.9	62.9	64.7	66.5	66.5	67.2	67.3	67.7	68.0	68.3	68.6	68.8	
GE 7000	47.4	51.7	60.4	63.5	64.5	66.6	68.6	68.6	69.4	69.5	70.0	70.2	70.5	70.9	71.0	
GE 6000	48.1	52.6	61.3	64.4	65.4	67.5	69.5	69.5	70.3	70.4	70.9	71.1	71.4	71.8	71.9	
GE 5000	49.7	54.4	63.6	67.0	68.0	70.1	72.1	72.1	73.0	73.1	73.5	73.8	74.1	74.4	74.6	
GE 4500	51.7	56.5	66.1	69.8	71.2	73.5	75.7	75.7	76.8	76.9	77.3	77.6	77.9	78.2	78.3	
GE 4000	55.6	60.7	71.7	75.7	77.2	80.0	82.5	82.5	83.6	83.7	84.2	84.4	84.7	85.0	85.2	
GE 3500	56.6	61.7	73.3	77.5	79.1	82.0	84.5	84.5	85.7	85.8	86.3	86.5	86.8	87.2	87.3	
GE 3000	57.5	62.6	75.1	79.7	81.5	85.0	87.6	87.6	89.0	89.1	89.5	89.7	90.1	90.4	90.5	
GE 2500	57.9	62.3	75.9	80.5	82.3	85.8	88.5	88.5	89.6	90.0	90.4	90.6	91.0	91.3	91.4	
GE 2000	59.6	65.1	78.0	82.6	84.7	88.6	91.3	91.3	92.6	92.7	93.2	93.4	93.8	94.1	94.2	
GE 1800	59.7	65.4	78.5	83.0	85.2	89.2	91.9	91.9	93.2	93.3	93.8	94.0	94.3	94.6	94.8	
GE 1500	59.8	65.5	79.0	83.6	85.6	90.2	92.9	93.0	94.3	94.4	94.9	95.1	95.4	95.8	95.9	
GE 1200	60.2	66.0	79.6	84.4	86.7	91.1	93.8	94.0	95.3	95.4	95.9	96.1	96.4	96.8	96.9	
GE 1000	60.2	66.1	79.9	85.0	87.4	92.1	94.8	95.0	96.3	96.4	96.9	97.1	97.4	97.8	97.9	
GE 900	60.2	66.1	80.1	85.3	87.6	92.3	95.0	95.2	96.5	96.7	97.1	97.3	97.7	98.0	98.1	
GE 800	60.2	66.1	80.4	85.8	88.2	92.9	95.5	95.8	97.1	97.2	97.7	97.9	98.2	98.5	98.7	
GE 700	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.2	
GE 600	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.2	
GE 500	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 400	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 300	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 200	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 100	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 0	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFLNWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.2	19.2	25.4	29.4	40.8	33.4	35.2	35.4	36.8	37.0	37.0	37.3	38.4	38.6	40.0	
GE 20000		16.7	20.9	27.4	31.4	32.8	35.9	37.7	37.9	39.6	39.8	39.9	40.2	41.5	41.7	43.6	
GE 18000		16.8	21.0	27.6	31.7	33.1	36.4	38.2	38.4	40.2	40.4	40.5	40.7	42.0	42.3	44.2	
GE 16000		16.8	21.0	27.6	31.7	33.1	36.4	38.2	38.4	40.2	40.4	40.5	40.7	42.0	42.3	44.2	
GE 14000		17.1	21.4	28.0	32.1	33.6	36.8	38.6	38.8	40.6	40.8	40.9	41.2	42.5	42.7	44.6	
GE 12000		17.4	22.1	28.9	33.0	34.5	37.8	39.6	39.8	41.6	41.8	41.9	42.2	43.5	43.7	45.6	
GE 10000		18.9	23.8	31.4	35.6	37.0	40.4	42.2	42.4	44.2	44.4	44.6	44.8	46.2	46.4	48.3	
GE 9000		19.5	24.8	32.4	36.7	38.3	41.6	43.5	43.7	45.5	45.7	45.9	46.2	47.7	47.9	49.8	
GE 8000		21.6	27.4	35.6	40.5	42.5	46.2	48.2	48.5	50.4	50.6	50.8	51.2	52.7	52.9	54.9	
GE 7000		23.0	29.3	38.4	43.5	45.5	49.5	51.6	51.9	53.9	54.3	54.6	54.9	56.5	56.7	58.8	
GE 6000		23.6	29.9	39.0	44.2	46.2	50.2	52.3	52.6	54.6	55.1	55.4	55.7	57.3	57.5	59.6	
GE 5000		25.1	31.8	41.5	46.7	48.7	52.7	55.1	55.4	57.4	57.8	58.2	58.6	60.3	60.5	62.8	
GE 4500		26.6	33.4	43.7	49.5	51.6	56.6	59.1	59.4	61.7	62.2	62.5	63.0	64.6	65.0	67.3	
GE 4000		30.9	38.5	50.2	57.2	59.4	64.7	67.6	68.0	70.5	71.0	71.3	71.7	73.4	73.7	76.1	
GE 3500		31.7	39.3	51.4	58.5	60.7	66.5	69.4	69.9	72.4	73.0	73.3	73.7	75.4	75.8	78.1	
GE 3000		34.3	41.8	55.5	63.3	66.0	72.2	75.3	75.8	78.6	79.2	79.5	80.1	81.8	82.1	84.5	
GE 2500		34.9	42.9	56.6	64.4	67.1	73.4	76.5	77.0	80.2	80.8	81.1	81.6	83.3	83.6	86.1	
GE 2000		36.3	44.7	58.8	66.9	69.6	76.2	79.3	79.9	83.4	84.0	84.3	84.9	86.5	86.9	89.3	
GE 1800		36.7	45.2	59.3	67.4	70.2	76.9	80.0	80.5	84.1	84.6	85.0	85.5	87.2	87.5	90.0	
GE 1500		37.4	45.9	60.1	68.6	71.6	78.5	81.6	82.3	86.0	86.7	87.0	87.5	89.2	89.7	92.1	
GE 1200		37.6	46.5	61.2	69.9	73.0	79.9	83.0	83.9	87.7	88.4	88.9	89.4	91.1	91.5	94.0	
GE 1000		37.6	46.7	61.4	70.6	73.7	80.8	83.9	84.8	88.7	89.4	89.9	90.4	92.1	92.5	95.0	
GE 900		37.6	46.7	61.4	70.7	73.9	80.9	84.2	85.1	89.1	89.9	90.3	90.9	92.5	93.0	95.4	
GE 800		37.7	46.8	61.7	71.2	74.3	81.5	84.9	85.8	89.9	90.7	91.1	91.7	93.3	93.8	96.2	
GE 700		37.7	46.9	61.8	71.4	74.5	81.9	85.2	86.1	90.2	91.0	91.4	92.0	93.7	94.1	96.6	
GE 600		37.8	47.2	62.2	71.9	75.0	82.3	85.6	86.7	90.8	91.5	92.1	92.7	94.3	94.8	97.2	
GE 500		37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.3	92.9	94.8	95.2	98.0	
GE 400		37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.3	98.1	
GE 300		37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	98.2	
GE 200		37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	98.6	
GE 100		37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	99.2	
GE	CE	37.6	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH
LAFFETAC
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 100	GE 70	GE 80	GE 60	GE 40	GE 30	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	GE 2	GE 1
NO CEIL		19.0	21.6	29.9	33.9	34.7	36.0	36.9	37.0	37.3	37.3	37.4	37.6	37.8	37.8	38.3	
GE 20000		21.7	24.4	33.2	37.7	36.6	39.9	41.0	41.2	41.6	41.6	41.8	41.9	42.1	42.2	43.2	
GE 18000		22.0	24.8	33.6	38.0	38.9	40.2	41.3	41.6	41.9	41.9	42.1	42.2	42.4	42.6	43.6	
GE 16000		22.0	24.8	33.6	38.0	38.9	40.2	41.3	41.6	41.9	41.9	42.1	42.2	42.4	42.6	43.6	
GE 14000		22.1	24.9	33.6	38.2	39.1	40.4	41.6	41.8	42.1	42.1	42.3	42.4	42.7	42.8	43.8	
GE 12000		22.6	25.4	34.4	38.9	39.9	41.2	42.3	42.6	42.9	43.1	43.2	43.6	43.8	44.6		
GE 10000		23.8	26.9	36.6	41.1	42.2	43.8	44.9	45.1	45.4	45.4	45.7	45.8	46.2	46.4	47.4	
GE 9000		24.0	27.1	37.0	41.8	42.9	44.6	45.7	45.9	46.2	46.2	46.4	46.6	47.2	47.4	48.4	
GE 8000		26.9	30.2	42.0	47.4	46.6	50.4	52.0	52.2	52.6	52.6	52.8	52.9	53.6	53.8	54.8	
GE 7000		28.6	32.1	44.6	50.6	51.7	53.8	55.6	55.8	56.1	56.1	56.4	56.6	57.2	57.4	58.4	
GE 6000		29.0	32.6	45.0	51.2	52.3	54.6	56.3	56.7	57.0	57.0	57.3	57.4	58.1	58.3	59.3	
GE 5000		30.9	34.4	47.7	54.1	55.3	57.7	59.4	59.9	60.2	60.3	60.8	61.1	62.0	62.2	63.2	
GE 4500		32.7	36.2	50.1	56.7	58.0	60.7	62.6	63.0	63.4	63.6	64.0	64.3	65.2	65.4	66.4	
GE 4000		36.4	40.2	54.4	61.4	62.9	65.8	67.7	68.1	68.7	68.8	69.2	69.6	70.4	70.7	71.7	
GE 3500		38.6	42.3	57.0	64.0	65.6	68.4	70.6	71.0	71.6	71.7	72.1	72.4	73.3	73.6	74.6	
GE 3000		40.2	44.0	59.8	67.3	69.0	72.1	74.6	75.2	75.8	75.9	76.3	76.7	77.6	77.8	78.9	
GE 2500		41.9	46.0	62.3	70.1	71.9	75.0	77.6	78.3	79.1	79.2	79.7	80.0	80.9	81.1	82.2	
GE 2000		43.3	47.6	64.2	72.2	74.0	77.4	80.2	81.0	81.9	82.1	82.6	82.9	83.8	84.0	85.1	
GE 1800		43.7	48.0	65.2	73.2	75.0	78.4	81.2	82.0	83.0	83.2	83.7	84.0	84.9	85.1	86.2	
GE 1500		45.1	50.1	67.7	75.8	77.7	81.7	84.4	85.2	86.2	86.4	86.9	87.2	88.1	88.3	89.4	
GE 1200		46.2	51.4	69.2	78.0	79.9	84.1	87.0	87.8	88.9	89.2	89.8	90.1	91.0	91.2	92.3	
GE 1000		46.4	51.8	70.3	79.7	81.6	86.0	89.2	90.0	91.3	91.7	92.2	92.6	93.4	93.7	94.6	
GE 900		46.7	52.0	70.8	80.2	82.1	86.6	89.8	90.6	91.9	92.2	92.8	93.1	94.0	94.2	95.3	
GE 800		46.7	52.1	71.0	80.4	82.3	87.2	90.4	91.2	92.7	93.0	93.6	93.9	94.9	95.1	96.2	
GE 700		46.7	52.1	71.0	80.6	82.4	87.4	90.8	91.7	93.3	93.7	94.3	94.7	95.7	96.0	97.1	
GE 600		47.1	52.9	71.8	81.3	83.2	88.6	92.1	93.0	94.7	95.0	95.7	96.0	97.0	97.3	98.6	
GE 500		47.2	53.0	71.9	81.4	83.3	88.7	92.2	93.1	94.8	95.1	95.6	96.1	97.2	97.6	98.8	
GE 400		47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	94.9	95.2	96.1	96.4	97.6	97.9	99.1	
GE 300		47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.1	99.6	
GE 200		47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.2	99.9	
GE 100		47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.2	100.0	
GE 0		47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.2	100.0	

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 0000-1100

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	1	9.9	31.1	33.2	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 2000		35.7	36.9	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
GE 1800		26.4	37.7	40.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	
GE 1600		36.6	37.8	40.4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	
GE 1400		36.6	38.0	40.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	
GE 1200		77.0	31.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	
GE 1000		38.4	39.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	
GE 900		79.0	40.4	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	
GE 800		42.6	44.3	48.7	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	
GE 700		45.2	46.6	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	
GE 600		45.3	46.9	52.0	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
GE 500		48.3	49.9	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
GE 400		50.4	52.0	57.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	
GE 300		56.6	58.7	64.8	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 200		60.6	62.6	68.9	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 100		70.0	72.4	80.2	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	
GE 500		72.1	74.8	83.0	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
GE 400		75.3	76.3	87.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
GE 300		76.2	79.2	89.0	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
GE 200		78.6	81.6	91.6	94.1	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	
GE 100		80.1	83.1	93.3	96.0	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	
GE 1000		80.3	83.4	94.0	97.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
GE 900		80.6	83.7	94.4	97.6	97.6	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	
GE 800		80.6	83.8	94.6	97.7	98.0	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	
GE 700		80.6	83.8	94.6	97.8	98.4	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	
GE 600		80.7	83.9	94.7	98.0	98.9	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 500		80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 400		80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 300		80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 200		80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 100		80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	
GE 0		80.8	84.0	94.8	98.1	99.0	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAF/ITAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURPLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(IST): 1700-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24
NO CEIL	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24
GE 20000	32.6	33.1	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
GE 18000	33.7	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 16000	33.8	34.6	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 14000	33.9	34.7	35.0	35.0	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 12000	34.7	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	35.8	35.8
GE 10000	37.5	38.2	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 9000	38.6	39.4	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 8000	43.8	44.9	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 7000	46.9	48.0	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	49.8
GE 6000	47.4	48.6	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 5000	51.3	52.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 4000	54.3	55.4	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
GE 3000	62.6	63.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 2000	67.9	69.3	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 1000	83.6	85.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 2500	85.9	88.2	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE 2000	88.3	91.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1800	89.0	91.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1600	90.2	93.1	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1400	90.7	93.4	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1200	90.8	93.7	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 200	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 100	90.9	93.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS: 900

AD-A186 616

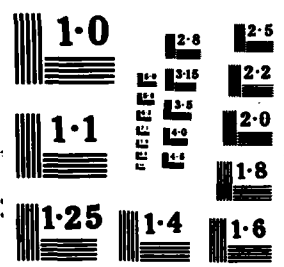
GREENWICH AAF GERMANY REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT AFB ILL. 87
USAFETAC/DS-87/063

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PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
	IN FEET	GT 100	GE 90	GE 80	GE 60	GE 40	GE 30	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL			28.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	
GE	20000		36.0	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	
GE	18000		38.1	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	
GE	16000		38.2	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
GE	14000		38.4	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	
GE	12000		38.9	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	
GE	10000		42.7	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	
GE	9000		44.6	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	
GE	8000		50.1	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	
GE	7000		53.9	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
GE	6000		54.7	56.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	
GE	5000		60.2	61.9	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	4500		63.2	65.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
GE	4000		72.3	74.6	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	3500		77.8	80.4	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
GE	3000		88.1	91.1	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	
GE	2500		89.4	92.7	94.9	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
GE	2000		91.1	94.3	96.9	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
GE	1800		91.6	94.8	97.3	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
GE	1500		91.6	95.1	97.9	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
GE	1200		92.4	95.8	98.6	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
GE	1000		92.6	95.9	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
GE	900		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE	800		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	
GE	700		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	600		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	500		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	400		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	300		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	200		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	100		92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	
GE	01		92.7	96.0	99.0	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	
TOTAL NUMBER OF OBSERVATIONS:			900														

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

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

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: JUN HOURS(IST): 2100-2300

CEILING		VISIBILITY IN HUNDREDS OF METERS														
IN FEET	GT 160	GE 90	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	41.2	44.4	48.9	50.0	50.2	50.8	51.3	51.3	51.4	51.7	51.8	51.8	51.8	51.9	51.9	
GE 20000	45.7	49.1	54.0	55.1	55.5	56.0	56.6	56.6	56.7	56.9	57.0	57.0	57.0	57.1	57.1	
GE 18000	46.7	50.2	55.1	56.2	56.6	57.1	57.7	57.7	58.0	58.2	58.4	58.4	58.4	58.5	58.5	
GE 16000	46.8	50.3	55.2	56.3	56.7	57.2	57.8	57.8	58.1	58.4	58.5	58.5	58.5	58.6	58.6	
GE 14000	47.2	50.8	55.7	56.8	57.1	57.7	58.2	58.2	58.6	58.8	58.9	58.9	58.9	59.0	59.0	
GE 12000	48.0	51.7	56.7	57.8	58.2	58.8	59.4	59.4	59.7	59.9	60.0	60.0	60.0	60.1	60.1	
GE 10000	51.9	56.1	61.1	62.4	62.8	63.4	63.9	63.9	64.3	64.5	64.6	64.6	64.6	64.7	64.7	
GE 9000	52.9	57.1	62.1	63.4	63.9	64.5	65.0	65.0	65.4	65.6	65.7	65.7	65.7	65.8	65.8	
GE 8000	57.0	61.5	66.8	68.0	68.6	69.4	69.9	69.9	70.3	70.5	70.6	70.6	70.6	70.7	70.7	
GE 7000	58.4	62.9	68.4	69.6	70.2	70.9	71.5	71.5	71.8	72.0	72.2	72.2	72.2	72.3	72.3	
GE 6000	58.9	63.6	69.2	70.4	70.9	71.7	72.3	72.3	72.6	72.8	72.9	72.9	72.9	73.1	73.1	
GE 5000	62.0	66.7	72.8	74.1	74.6	75.4	75.9	76.1	76.4	76.6	76.7	76.7	76.7	76.8	76.8	
GE 4500	65.1	69.8	77.2	78.6	79.5	80.3	81.3	81.4	81.7	82.0	82.1	82.1	82.1	82.2	82.2	
GE 4000	68.8	73.5	81.7	83.2	84.2	85.4	86.4	86.6	87.0	87.2	87.3	87.3	87.3	87.4	87.4	
GE 3500	70.3	74.9	83.5	85.0	86.0	87.4	88.4	88.6	89.0	89.2	89.3	89.3	89.3	89.4	89.4	
GE 3000	71.8	76.9	85.7	87.2	88.2	89.9	90.9	91.3	92.1	92.3	92.4	92.4	92.4	92.5	92.5	
GE 2500	72.5	77.7	87.0	88.4	89.4	91.5	92.5	93.0	93.8	94.0	94.1	94.1	94.1	94.2	94.2	
GE 2000	73.4	78.6	88.4	90.1	91.2	93.5	94.7	95.1	95.9	96.1	96.2	96.2	96.2	96.3	96.3	
GE 1800	73.5	79.0	88.8	90.4	91.8	94.1	95.2	95.7	96.4	96.7	96.8	96.8	96.8	96.9	96.9	
GE 1500	74.1	79.6	89.9	91.3	92.7	95.2	96.3	96.8	97.6	97.8	97.9	97.9	97.9	98.0	98.0	
GE 1200	74.2	79.8	90.6	91.8	93.1	95.7	96.8	97.2	98.0	98.2	98.3	98.3	98.3	98.4	98.4	
GE 1000	74.3	80.0	90.2	92.0	93.3	96.0	97.1	97.6	98.3	98.6	98.7	98.8	98.8	98.9	98.9	
GE 900	74.4	80.2	90.4	92.2	93.5	96.2	97.3	97.8	98.6	98.8	98.9	99.0	99.0	99.1	99.1	
GE 800	74.4	80.2	90.4	92.4	93.8	96.4	97.6	98.0	98.8	99.0	99.1	99.2	99.2	99.3	99.3	
GE 700	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 600	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 500	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 400	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 300	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 200	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 100	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	
GE 01	74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: JUN

HOURS(LST):

ALL

CEILING		VISIBILITY IN HUNDREDS OF METERS														
IN FEET	GE 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	29.6	31.5	35.0	36.6	37.0	37.7	38.3	38.3	38.6	38.7	38.8	38.9	39.1	39.1	39.4	
GE 20000	34.4	36.6	40.5	42.1	42.5	43.3	44.0	44.0	44.4	44.4	44.5	44.6	44.8	44.9	45.3	
GE 18000	35.5	37.8	41.7	43.3	43.7	44.5	45.2	45.2	45.6	45.7	45.8	45.9	46.1	46.2	46.6	
GE 16000	35.6	37.8	41.7	43.4	43.8	44.6	45.3	45.3	45.7	45.8	45.9	45.9	46.2	46.3	46.6	
GE 14000	35.8	38.0	42.0	43.6	44.1	44.9	45.5	45.6	46.0	46.0	46.1	46.2	46.4	46.5	46.9	
GE 12000	36.4	38.8	42.8	44.5	44.9	45.8	46.4	46.5	46.9	46.9	47.0	47.1	47.3	47.4	47.8	
GE 10000	39.0	41.6	45.8	47.5	48.0	48.9	49.5	49.6	50.0	50.0	50.1	50.2	50.5	50.6	51.0	
GE 9000	40.0	42.6	46.9	48.6	49.1	50.0	50.7	50.7	51.1	51.2	51.3	51.4	51.7	51.8	52.2	
GE 8000	44.0	46.9	52.0	53.9	54.5	55.5	56.3	56.3	56.7	56.8	56.9	57.0	57.3	57.5	57.8	
GE 7000	46.2	49.2	54.8	56.9	57.4	58.6	59.4	59.5	59.9	60.0	60.1	60.2	60.5	60.7	61.1	
GE 6000	46.8	49.9	55.5	57.6	58.2	59.4	60.2	60.3	60.7	60.8	60.9	61.0	61.3	61.4	61.9	
GE 5000	49.9	53.1	59.2	61.4	61.9	63.1	64.0	64.1	64.5	64.6	64.8	64.9	65.3	65.4	65.8	
GE 4500	52.4	55.8	62.2	64.6	65.3	66.7	67.6	67.7	68.3	68.4	68.6	68.7	69.0	69.2	69.6	
GE 4000	58.1	61.7	68.8	71.5	72.3	73.8	74.9	75.0	75.6	75.7	75.9	76.0	76.4	76.5	76.9	
GE 3500	60.9	64.6	72.1	74.8	75.6	77.3	78.4	78.5	79.1	79.2	79.4	79.5	79.9	80.0	80.4	
GE 3000	66.5	70.5	78.8	81.8	82.7	84.6	85.6	86.0	86.7	86.8	87.0	87.1	87.5	87.6	88.0	
GE 2500	67.8	72.1	80.7	83.9	84.8	86.8	88.0	88.2	89.0	89.1	89.3	89.4	89.8	89.9	90.3	
GE 2000	69.6	74.0	83.1	86.3	87.3	89.5	90.7	90.9	91.8	91.9	92.1	92.2	92.6	92.7	93.2	
GE 1800	69.9	74.4	83.7	87.0	88.0	90.2	91.4	91.6	92.5	92.6	92.8	92.9	93.3	93.4	93.9	
GE 1500	70.8	75.4	85.0	88.4	89.4	91.8	93.0	93.3	94.1	94.3	94.5	94.6	95.0	95.1	95.6	
GE 1200	71.4	76.1	85.9	89.5	90.6	93.0	94.2	94.5	95.4	95.6	95.8	95.9	96.3	96.4	96.9	
GE 1000	71.5	76.3	86.3	90.2	91.3	93.8	95.1	95.4	96.3	96.5	96.7	96.9	97.2	97.4	97.8	
GE 900	71.6	76.4	86.5	90.4	91.6	94.1	95.4	95.7	96.7	96.9	97.1	97.2	97.6	97.7	98.2	
GE 800	71.6	76.4	86.6	90.6	91.8	94.4	95.7	96.0	97.0	97.2	97.4	97.5	97.9	98.1	98.5	
GE 700	71.6	76.5	86.6	90.8	92.0	94.7	96.0	96.4	97.4	97.6	97.8	98.0	98.3	98.5	98.9	
GE 600	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.7	97.9	98.2	98.3	98.7	98.8	99.3	
GE 500	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.8	98.0	98.2	98.3	98.8	98.9	99.5	
GE 400	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.8	98.0	98.3	98.4	98.8	98.9	99.5	
GE 300	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.0	99.6	
GE 200	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.1	99.7	
GE 100	71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.1	99.8	
GE 0	71.7	76.6	86.8	91.1	92.3	95.0	96.5	96.8	97.8	98.0	98.3	98.5	98.9	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		30.4	36.5	45.3	48.3	48.4	50.8	51.8	51.8	52.8	52.8	52.8	52.8	52.8	52.8	52.9
GE 20000		32.3	38.7	48.3	51.5	51.6	54.0	55.1	55.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2
GE 18000		32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 16000		32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 14000		32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 12000		32.7	39.2	48.9	52.2	52.3	54.7	55.7	55.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8
GE 10000		35.4	41.9	51.6	55.4	55.6	58.2	59.3	59.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4
GE 9000		36.3	42.9	52.9	56.7	56.9	59.5	60.6	60.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7
GE 8000		41.1	47.9	59.3	63.5	64.0	66.8	67.9	67.9	68.8	68.8	68.8	68.8	68.9	68.9	69.0
GE 7000		44.2	51.0	63.7	68.2	68.8	71.8	72.8	72.8	73.8	73.8	73.8	73.9	73.9	73.9	74.0
GE 6000		44.4	51.2	64.4	69.0	69.7	72.6	73.7	73.7	74.7	74.7	74.7	74.8	74.8	74.8	74.9
GE 5000		47.5	54.5	68.3	73.1	73.9	76.8	78.2	78.2	79.2	79.2	79.2	79.3	79.3	79.4	79.5
GE 4500		48.7	56.0	70.1	75.1	76.0	79.2	80.8	80.8	81.8	81.8	81.8	81.9	81.9	82.1	82.3
GE 4000		50.6	58.7	73.9	79.1	80.0	83.8	85.4	85.4	86.4	86.4	86.4	86.5	86.5	86.7	86.8
GE 3500		51.6	59.7	75.1	80.3	81.2	85.1	86.9	86.9	87.9	87.9	87.9	88.0	88.0	88.2	88.3
GE 3000		53.2	62.4	78.2	83.4	84.4	88.6	90.7	90.7	91.7	91.7	91.7	91.8	91.8	92.0	92.1
GE 2500		53.7	62.9	79.1	84.3	85.3	89.7	91.8	91.8	92.7	92.7	92.7	92.9	92.9	93.1	93.2
GE 2000		55.2	64.4	81.3	86.5	87.4	92.1	94.2	94.2	95.1	95.1	95.1	95.2	95.2	95.5	95.6
GE 1800		55.4	64.6	81.5	86.9	87.9	92.6	94.7	94.7	95.7	95.7	95.7	95.8	95.8	96.0	96.1
GE 1600		55.6	65.0	82.5	88.0	89.0	93.7	96.1	96.1	97.1	97.1	97.1	97.2	97.2	97.4	97.5
GE 1400		56.1	65.3	83.0	88.5	89.5	94.5	96.9	96.9	97.8	97.8	97.8	97.9	97.9	98.2	98.3
GE 1200		56.1	65.3	83.0	88.5	89.5	94.5	96.9	96.9	97.8	97.8	97.8	97.9	97.9	98.2	98.3
GE 1000		56.1	65.3	83.2	88.7	89.7	94.9	97.3	97.3	98.3	98.3	98.3	98.4	98.4	98.6	98.7
GE 900		56.1	65.3	83.3	88.9	89.8	95.0	97.4	97.5	98.5	98.5	98.5	98.6	98.6	98.8	98.9
GE 800		56.1	65.3	83.3	88.9	89.8	95.0	97.4	97.5	98.5	98.5	98.5	98.6	98.6	98.8	98.9
GE 700		56.1	65.3	83.3	88.9	89.8	95.0	97.4	97.5	98.5	98.5	98.5	98.6	98.6	98.8	98.9
GE 600		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5
GE 500		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5
GE 400		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5
GE 300		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5
GE 200		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	99.9
GE 100		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	100.0
GE 0		56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	1		11.0	16.6	23.9	29.5	30.1	33.1	35.1	35.4	37.8	38.5	39.0	40.0	41.0	41.7	42.7
GE 20000	1		12.0	18.0	26.1	32.0	32.9	36.1	38.3	38.6	41.1	41.9	42.3	43.5	44.6	45.2	46.3
GE 18000	1		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 16000	1		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 14000	1		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 12000	1		12.4	18.4	27.1	33.0	34.0	37.2	39.4	39.7	42.2	43.0	43.4	44.6	45.7	46.3	47.4
GE 10000	1		15.0	21.6	30.7	37.3	38.4	41.9	44.3	44.6	47.1	47.8	48.3	49.5	50.5	51.2	52.3
GE 9000	1		16.0	22.7	32.1	38.9	39.9	43.5	45.9	46.2	48.7	49.5	50.0	51.2	52.3	52.9	54.0
GE 8000	1		19.0	27.2	37.8	45.0	46.3	50.8	53.8	54.3	57.1	58.0	58.5	59.7	60.8	61.5	62.6
GE 7000	1		21.0	29.7	41.5	48.7	50.2	54.9	58.0	58.5	61.5	62.3	62.9	64.2	65.4	66.1	67.3
GE 6000	1		21.0	29.7	41.6	48.9	50.4	55.1	58.2	58.8	61.7	62.6	63.1	64.4	65.6	66.3	67.5
GE 5000	1		22.8	31.5	44.2	51.7	53.2	58.1	61.5	62.0	65.0	65.9	66.5	67.9	69.0	69.8	71.1
GE 4500	1		23.5	32.4	46.1	54.1	55.6	60.7	64.1	64.6	67.6	68.5	69.0	70.5	71.6	72.4	73.7
GE 4000	1		26.6	35.7	50.5	59.4	61.3	66.5	70.1	70.7	73.9	74.8	75.3	76.7	77.9	78.7	80.0
GE 3500	1		27.3	36.6	51.6	60.5	62.3	67.5	71.3	71.9	75.2	76.1	76.6	78.0	79.2	80.0	81.3
GE 3000	1		28.9	39.3	54.7	64.1	65.9	71.3	75.4	76.1	79.5	80.4	81.0	82.4	83.5	84.3	85.6
GE 2500	1		29.1	39.6	55.6	65.2	67.1	72.7	76.8	77.5	81.0	81.8	82.4	83.8	85.0	85.7	87.0
GE 2000	1		30.4	41.2	57.7	67.5	69.7	75.4	79.7	80.3	83.8	84.6	85.2	86.6	87.8	88.5	89.8
GE 1800	1		30.7	41.6	58.1	68.0	70.1	75.9	80.1	80.7	84.2	85.1	85.6	87.0	88.2	89.0	90.3
GE 1500	1		30.8	41.7	58.5	68.7	70.9	76.7	81.4	82.0	85.7	86.6	87.1	88.5	89.7	90.5	91.8
GE 1200	1		31.2	42.1	59.7	70.1	72.3	78.5	83.2	83.9	87.7	88.5	89.1	90.5	91.7	92.4	93.7
GE 1000	1		31.3	42.4	60.6	71.1	73.3	79.5	84.4	85.1	89.0	89.8	90.4	91.9	93.1	93.8	95.1
GE 900	1		31.3	42.4	60.6	71.2	73.4	79.9	84.8	85.5	89.4	90.3	90.8	92.4	93.6	94.4	95.7
GE 800	1		31.3	42.4	60.7	71.5	73.7	80.4	85.4	86.0	89.9	90.8	91.3	93.0	94.2	94.9	96.2
GE 700	1		31.3	42.4	60.7	71.6	73.6	80.5	85.5	86.1	90.2	91.0	91.6	93.2	94.6	95.3	96.6
GE 600	1		31.3	42.4	60.7	71.8	73.9	80.6	86.3	86.9	90.9	91.8	92.3	93.9	95.3	96.1	97.4
GE 500	1		31.3	42.4	60.7	71.8	74.0	81.0	86.4	87.0	91.1	92.0	92.6	94.3	95.7	96.4	97.7
GE 400	1		31.3	42.4	60.7	71.8	74.0	81.2	86.6	87.2	91.6	92.4	93.1	94.7	96.1	96.9	98.2
GE 300	1		31.3	42.4	60.7	71.8	74.0	81.2	86.6	87.2	91.6	92.4	93.1	94.7	96.3	97.1	98.5
GE 200	1		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.3	98.5
GE 100	1		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.5	98.8
GE 0	1		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		13.2	16.5	26.5	30.8	32.0	34.0	35.2	35.3	36.3	36.6	36.7	37.2	37.6	38.1	38.7	
GE 20000		14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 18000		14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 16000		14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 14000		14.2	18.2	29.2	34.2	35.5	37.4	38.7	39.0	40.2	40.5	40.6	41.1	41.5	42.2	42.9	
GE 12000		14.6	18.6	29.8	35.0	36.4	38.3	39.6	39.8	41.0	41.3	41.5	42.0	42.3	43.1	43.7	
GE 10000		16.7	21.1	33.4	39.1	40.5	42.6	43.9	44.3	45.5	45.8	45.9	46.4	46.8	47.5	48.2	
GE 9000		16.9	21.4	34.1	39.8	41.2	43.5	44.9	45.2	46.4	46.8	47.0	47.5	47.8	48.6	49.2	
GE 8000		21.4	26.8	39.8	46.0	47.5	50.1	51.6	52.1	53.9	54.2	54.4	55.0	55.5	56.3	56.9	
GE 7000		23.5	29.4	43.3	50.0	51.5	54.2	55.8	56.3	58.4	58.8	59.0	59.5	60.1	60.8	61.5	
GE 6000		23.6	29.7	43.6	50.8	52.3	55.0	56.6	57.0	59.2	59.5	59.7	60.3	60.8	61.6	62.2	
GE 5000		25.8	32.0	47.0	54.4	56.1	59.3	60.9	61.4	63.6	64.0	64.2	64.7	65.3	66.0	66.7	
GE 4500		26.2	32.8	48.5	56.2	57.9	61.1	62.8	63.2	65.5	65.8	66.0	66.6	67.1	67.9	68.5	
GE 4000		28.9	35.7	52.3	60.5	62.4	66.3	68.4	68.9	71.2	71.5	71.8	72.3	72.8	73.6	74.2	
GE 3500		29.7	36.5	53.8	62.3	64.3	68.2	70.2	70.8	73.2	73.5	73.7	74.2	74.8	75.5	76.2	
GE 3000		32.1	39.7	57.7	67.3	69.3	73.4	75.9	76.5	79.2	79.5	79.8	80.3	80.8	81.6	82.3	
GE 2500		32.6	40.2	59.2	68.8	70.9	75.0	77.6	78.2	81.0	81.3	81.5	82.0	82.6	83.3	84.0	
GE 2000		34.2	42.1	61.5	71.4	73.8	78.2	80.8	81.6	84.3	84.6	84.8	85.4	85.9	86.7	87.3	
GE 1800		34.5	42.4	62.1	72.2	74.6	79.0	81.6	82.4	85.1	85.4	85.6	86.1	86.7	87.4	88.1	
GE 1500		35.0	43.5	63.6	73.8	76.3	81.1	83.9	84.6	87.4	87.8	88.0	88.5	89.1	89.8	90.5	
GE 1200		35.4	43.9	64.7	75.3	77.8	82.6	85.6	86.5	89.3	89.6	89.8	90.4	90.9	91.7	92.3	
GE 1000		35.4	44.2	65.3	76.4	78.9	83.9	87.1	88.0	90.9	91.2	91.5	92.0	92.5	93.4	94.0	
GE 900		35.4	44.3	65.4	76.5	79.2	84.6	88.1	89.0	91.9	92.2	92.4	93.0	93.5	94.4	95.0	
GE 800		35.6	44.5	66.1	77.4	80.3	85.8	89.3	90.2	93.1	93.4	93.6	94.2	94.7	95.6	96.2	
GE 700		35.6	44.5	66.1	77.4	80.4	86.0	89.5	90.4	93.3	93.7	93.9	94.5	95.0	95.9	96.5	
GE 600		35.6	44.5	66.1	77.5	80.6	86.6	90.2	91.0	93.9	94.4	94.6	95.1	95.7	96.5	97.2	
GE 500		35.6	44.5	66.1	77.5	80.7	86.7	90.3	91.1	94.2	94.6	94.9	95.5	96.0	96.9	97.5	
GE 400		35.6	44.5	66.1	77.5	80.8	86.9	90.5	91.3	94.4	94.9	95.2	95.8	96.3	97.3	97.9	
GE 300		35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.6	95.1	95.6	96.1	96.8	97.7	98.4	
GE 200		35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	99.4	
GE 100		35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	100.0	
GE 0		35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS(DAYS): 0900-1100

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	1	70.6	33.0	36.8	37.0	37.0	37.0	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 20000	1	35.2	38.0	42.2	42.4	42.4	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 18000	1	35.5	38.5	43.1	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 16000	1	35.5	38.5	43.1	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 14000	1	35.9	39.0	43.5	43.7	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 12000	1	36.8	39.8	44.4	44.6	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 10000	1	38.4	41.5	46.6	46.9	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 9000	1	39.3	42.3	47.6	47.8	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 8000	1	43.3	46.5	52.6	52.9	52.9	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 7000	1	46.9	50.4	57.0	57.5	57.5	57.6	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 6000	1	47.7	51.4	58.1	58.7	58.7	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 5000	1	50.4	54.2	61.6	62.2	62.2	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 4500	1	51.4	55.2	63.1	63.7	63.7	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 4000	1	54.3	58.1	67.3	68.4	68.5	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 3500	1	56.8	60.7	70.2	71.3	71.4	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 3000	1	64.1	68.9	79.8	81.2	81.6	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 2500	1	66.7	71.6	82.8	84.3	84.7	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 2000	1	69.6	75.0	87.9	90.2	90.7	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1800	1	70.0	75.4	88.4	90.9	91.5	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1500	1	71.6	77.2	90.6	93.8	94.6	95.5	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	1	72.1	77.7	91.9	95.1	95.9	96.8	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1000	1	72.4	78.1	92.6	95.9	96.6	97.6	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 900	1	72.4	78.1	92.6	96.3	97.2	98.3	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 800	1	72.6	78.4	93.2	96.9	97.7	98.8	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700	1	72.6	78.4	93.2	96.9	97.7	98.8	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE CI	1	72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		31.1	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	
GE 20000		36.8	37.6	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	
GE 18000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
GE 16000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
GE 14000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
GE 12000		37.9	38.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	
GE 10000		40.2	41.0	41.3	41.3	41.3	41.3	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	
GE 9000		41.2	42.1	42.4	42.4	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	
GE 8000		46.3	47.3	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	
GE 7000		49.6	51.1	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 6000		50.2	51.7	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
GE 5000		54.9	56.4	57.8	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	
GE 4500		57.5	59.1	60.5	60.6	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	
GE 4000		64.7	66.6	68.9	69.0	69.0	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	
GE 3500		70.1	72.3	74.8	75.0	75.0	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	
GE 3000		81.3	84.3	87.8	88.1	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	
GE 2500		82.6	85.7	90.2	90.5	90.5	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	
GE 2000		84.4	88.0	93.2	93.5	93.5	93.8	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
GE 1800		84.5	88.1	94.0	94.4	94.4	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
GE 1500		85.4	89.2	96.1	96.6	96.6	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	
GE 1200		85.5	89.4	96.6	97.3	97.3	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
GE 1000		85.7	89.6	97.1	97.9	97.9	98.5	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
GE 900		85.7	89.6	97.2	98.2	98.2	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
GE 800		85.9	89.8	97.7	98.7	98.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 700		85.9	89.8	97.7	98.7	98.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 600		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 500		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 400		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 300		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 200		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 100		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 0		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 2000	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
GE 1800	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 1600	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 1400	41.1	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
GE 1200	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 1000	46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
GE 900	46.8	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 800	54.0	54.7	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 700	56.3	57.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 600	56.5	57.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 500	62.3	63.2	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
GE 450	65.2	66.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 400	74.6	75.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 350	78.2	79.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 300	86.0	88.2	92.5	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0
GE 250	87.3	89.9	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1
GE 200	88.7	91.6	96.4	96.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1
GE 180	88.7	91.6	96.5	96.6	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2
GE 150	89.5	92.5	97.9	98.1	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7
GE 120	89.7	92.9	98.4	98.6	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 100	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 90	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 80	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 70	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 60	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 50	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 40	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 30	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 20	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 10	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE C	89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
SAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS(IST): 1800-2000

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		45.6	45.8	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	
GE 20000		51.5	51.8	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 18000		52.1	52.4	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 16000		52.1	52.4	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 14000		52.2	52.5	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 12000		52.7	53.1	53.7	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 10000		56.5	56.9	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	
GE 9000		57.4	57.9	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
GE 8000		63.2	63.9	65.7	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
GE 7000		66.1	67.2	69.4	69.8	69.8	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	
GE 6000		67.1	68.3	70.5	70.9	70.9	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	
GE 5000		72.1	73.4	75.8	76.2	76.2	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	
GE 4500		74.3	75.6	78.3	78.7	79.1	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	
GE 4000		80.6	82.2	85.2	85.7	85.9	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	
GE 3500		83.5	85.2	88.6	89.0	89.3	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	
GE 3000		87.6	89.6	93.6	94.4	94.6	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
GE 2500		98.1	98.2	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 2000		98.7	99.0	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 1800		98.7	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 1500		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 1200		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 1000		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 900		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 800		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 700		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 600		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 500		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 400		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 300		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 200		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 100		99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.2	44.9	50.2	50.8	51.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.2	52.2
GE 20000		44.3	48.4	54.2	54.9	55.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.4	56.4
GE 18000		44.9	49.3	55.2	55.9	56.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4
GE 16000		44.9	49.3	55.2	55.9	56.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4
GE 14000		45.0	49.5	55.3	56.0	56.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5
GE 12000		45.0	49.7	55.5	56.2	56.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7
GE 10000		47.0	51.7	57.6	58.5	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1
GE 9000		47.9	52.7	58.9	59.8	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4
GE 8000		51.5	56.7	63.1	64.3	64.6	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.6
GE 7000		54.4	60.0	67.4	68.5	68.9	70.7	70.8	70.8	70.9	70.9	70.9	71.0	71.0	71.1	71.1
GE 6000		55.3	60.8	68.4	69.6	70.0	71.8	71.9	71.9	72.0	72.0	72.0	72.1	72.1	72.2	72.2
GE 5000		60.4	66.6	74.4	75.6	76.2	78.1	78.6	78.6	78.7	78.7	78.7	78.9	78.9	79.0	79.0
GE 4500		61.9	68.2	76.2	77.4	78.2	80.0	80.6	80.6	80.7	80.7	80.7	80.8	80.8	80.9	80.9
GE 4000		64.6	71.5	80.0	81.2	82.1	84.1	84.6	84.6	84.7	84.7	84.7	84.8	84.8	84.9	84.9
GE 3500		66.4	73.3	82.6	83.9	84.6	86.8	87.7	87.9	88.0	88.0	88.0	88.1	88.1	88.2	88.2
GE 3000		69.6	77.2	87.4	88.7	89.7	92.0	93.0	93.2	93.3	93.3	93.3	93.4	93.4	93.5	93.6
GE 2500		70.3	78.1	88.8	90.2	91.3	93.8	95.0	95.2	95.3	95.3	95.3	95.4	95.4	95.6	95.7
GE 2000		71.3	79.1	90.2	91.6	92.7	95.2	96.4	96.6	96.7	96.7	96.7	96.9	96.9	97.0	97.1
GE 1800		71.3	79.1	90.3	91.8	92.6	95.3	96.5	96.7	96.9	96.9	96.9	97.0	97.0	97.1	97.2
GE 1500		71.6	79.6	91.5	93.2	94.3	96.7	98.3	98.5	98.6	98.6	98.6	98.7	98.7	98.8	98.9
GE 1200		71.7	79.8	92.0	93.6	94.7	97.3	98.8	99.0	99.1	99.1	99.1	99.2	99.2	99.3	99.5
GE 1000		71.7	79.8	92.0	93.7	94.8	97.5	99.0	99.2	99.3	99.3	99.3	99.5	99.5	99.6	99.7
GE 900		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 800		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 700		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 600		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 500		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 400		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 300		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 200		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 100		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.8	99.9	100.0
GE 0		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENHOF AAF GFR

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS(1ST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.6	32.3	36.9	38.6	38.8	39.9	40.4	40.5	41.0	41.2	41.2	41.4	41.6	41.8	42.0
GE 20000		33.3	36.3	41.3	43.1	43.4	44.6	45.1	45.2	45.8	45.9	46.0	46.2	46.4	46.6	46.8
GE 18000		33.6	36.7	41.7	43.6	43.9	45.0	45.6	45.7	46.3	46.4	46.5	46.7	46.8	47.0	47.3
GE 16000		33.6	36.8	41.7	43.6	43.9	45.0	45.6	45.7	46.3	46.4	46.5	46.7	46.9	47.1	47.3
GE 14000		33.7	36.9	41.9	43.8	44.1	45.2	45.8	45.8	46.4	46.6	46.6	46.8	47.0	47.2	47.4
GE 12000		34.2	37.4	42.5	44.4	44.8	45.9	46.5	46.5	47.1	47.2	47.3	47.5	47.7	47.9	48.1
GE 10000		36.9	40.2	45.7	47.8	48.2	49.4	50.0	50.1	50.7	50.8	50.9	51.1	51.3	51.4	51.7
GE 9000		37.7	41.1	46.8	48.9	49.3	50.5	51.2	51.2	51.8	52.0	52.1	52.3	52.4	52.6	52.9
GE 8000		42.5	46.4	52.8	55.2	55.7	57.1	57.9	58.0	58.7	58.9	58.9	59.2	59.4	59.6	59.8
GE 7000		45.2	49.5	56.6	59.1	59.7	61.2	62.0	62.1	62.9	63.1	63.2	63.4	63.6	63.8	64.1
GE 6000		45.7	50.0	57.3	59.9	60.4	62.0	62.8	62.9	63.7	63.8	63.9	64.2	64.4	64.6	64.8
GE 5000		49.5	54.0	61.7	64.5	65.1	66.6	67.6	67.8	68.6	68.7	68.8	69.1	69.3	69.5	69.8
GE 4500		51.1	55.7	63.8	66.7	67.4	69.1	70.0	70.2	71.0	71.1	71.2	71.5	71.7	71.9	72.2
GE 4000		55.6	61.5	69.5	72.7	73.4	75.4	76.4	76.5	77.4	77.5	77.6	77.9	78.1	78.3	78.6
GE 3500		57.9	63.0	72.4	75.6	76.4	78.4	79.5	79.7	80.5	80.7	80.8	81.1	81.3	81.5	81.8
GE 3000		62.9	68.7	79.0	82.5	83.3	85.5	86.7	87.0	87.9	88.0	88.1	88.4	88.6	88.8	89.1
GE 2500		63.6	69.8	80.6	84.2	85.1	87.4	88.7	88.9	89.8	89.9	90.0	90.3	90.5	90.8	91.0
GE 2000		65.3	71.5	83.0	86.7	87.6	90.1	91.4	91.6	92.5	92.7	92.8	93.1	93.3	93.5	93.8
GE 1800		65.5	71.7	83.4	87.2	88.1	90.6	91.9	92.1	93.0	93.2	93.3	93.6	93.8	94.0	94.3
GE 1500		66.1	72.6	84.7	88.7	89.7	92.3	93.6	94.1	95.1	95.2	95.3	95.6	95.8	96.0	96.3
GE 1000		66.4	72.9	85.4	89.5	90.5	93.2	94.8	95.0	96.0	96.2	96.3	96.6	96.8	97.0	97.3
GE 900		66.4	73.0	85.8	90.1	91.1	93.8	95.5	95.7	96.8	96.9	97.0	97.3	97.5	97.8	98.1
GE 800		66.4	73.0	85.9	90.2	91.3	94.1	95.9	96.1	97.1	97.3	97.4	97.7	97.9	98.2	98.4
GE 700		66.5	73.1	86.1	90.5	91.6	94.5	96.3	96.5	97.5	97.7	97.8	98.1	98.3	98.6	98.8
GE 600		66.5	73.1	86.1	90.6	91.6	94.5	96.3	96.5	97.6	97.8	97.8	98.2	98.4	98.6	98.9
GE 500		66.6	73.1	86.2	90.7	91.8	94.7	96.6	96.8	97.9	98.1	98.2	98.5	98.7	99.0	99.2
GE 450		66.6	73.1	86.2	90.7	91.8	94.8	96.6	96.9	97.9	98.1	98.3	98.6	98.8	99.1	99.3
GE 400		66.6	73.1	86.2	90.7	91.8	94.8	96.7	96.9	98.0	98.2	98.3	98.7	98.9	99.2	99.4
GE 300		66.6	73.1	86.2	90.7	91.8	94.9	96.7	96.9	98.1	98.3	98.4	98.7	99.0	99.2	99.5
GE 200		66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	99.8
GE 100		66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	100.0
GE 0		66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 7368

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS														
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		24.3	30.3	40.9	45.6	46.7	49.5	51.3	52.4	53.4	53.8	54.1	54.8	55.8	56.3	56.8
GE 20000		26.5	33.0	45.6	50.6	51.9	54.9	56.9	58.0	59.0	59.4	59.7	60.4	61.5	62.0	62.5
GE 18000		26.5	33.3	46.8	51.8	53.1	56.1	58.3	59.4	60.5	60.9	61.2	61.9	63.0	63.5	64.0
GE 16000		26.5	33.3	46.8	51.8	53.1	56.1	58.3	59.4	60.5	60.9	61.2	61.9	63.0	63.5	64.0
GE 14000		26.7	33.5	47.0	52.0	53.3	56.3	58.5	59.6	60.8	61.1	61.4	62.2	63.2	63.8	64.2
GE 12000		27.4	34.3	47.7	52.8	54.1	57.1	59.2	60.3	61.5	61.8	62.2	62.9	64.0	64.5	64.9
GE 10000		29.0	35.9	49.7	54.8	56.2	59.5	61.6	62.7	64.1	64.4	64.7	65.5	66.6	67.1	67.5
GE 9000		29.2	36.5	50.2	55.4	56.6	60.0	62.4	63.4	64.8	65.2	65.5	66.2	67.3	68.1	68.5
GE 8000		31.6	39.6	54.6	60.0	61.4	64.9	67.5	68.7	70.2	70.5	70.9	71.6	72.8	73.5	74.0
GE 7000		32.7	40.8	56.7	62.0	63.4	67.0	69.6	70.8	72.3	72.6	72.9	73.7	74.8	75.6	76.0
GE 6000		32.7	40.9	56.9	62.3	63.7	67.2	69.8	71.0	72.5	72.8	73.1	73.9	75.1	75.8	76.2
GE 5000		34.3	43.0	59.2	64.6	66.0	69.7	72.4	73.5	75.2	75.5	75.8	76.6	77.7	78.6	79.0
GE 4500		35.2	44.0	60.6	66.2	67.7	71.6	74.3	75.5	77.1	77.4	77.7	78.5	79.7	80.5	81.0
GE 4000		38.2	47.8	65.3	70.9	72.4	76.2	78.9	80.1	81.8	82.2	82.5	83.2	84.4	85.3	85.7
GE 3500		39.0	49.0	66.7	72.3	73.9	78.0	81.0	82.2	84.0	84.3	84.6	85.4	86.6	87.4	87.8
GE 3000		40.9	51.3	69.6	75.3	77.3	81.6	84.7	85.9	87.7	88.3	88.6	89.4	90.5	91.4	91.8
GE 2500		41.3	51.7	70.6	76.5	78.5	83.0	86.1	87.3	89.1	89.7	90.0	90.8	91.9	92.8	93.2
GE 2000		41.7	52.1	71.7	77.6	79.8	84.3	87.5	88.7	90.5	91.1	91.4	92.2	93.3	94.2	94.6
GE 1800		41.7	52.3	71.7	77.6	79.8	84.3	87.5	88.7	90.5	91.1	91.4	92.2	93.3	94.2	94.6
GE 1500		41.8	52.5	72.0	78.0	80.1	85.3	88.5	89.7	91.5	92.0	92.4	93.1	94.3	95.2	95.6
GE 1200		41.9	52.6	72.7	78.6	80.8	86.0	89.4	90.5	92.4	92.9	93.2	94.0	95.2	96.0	96.5
GE 1000		42.0	52.7	72.9	78.8	81.0	86.6	90.3	91.5	93.3	93.9	94.2	94.9	96.1	97.0	97.4
GE 900		42.0	52.7	73.1	79.2	81.4	87.1	90.9	92.0	93.9	94.4	94.7	95.5	96.7	97.5	98.0
GE 800		42.0	52.7	73.1	79.2	81.4	87.1	90.9	92.0	93.9	94.4	94.7	95.5	96.7	97.5	98.0
GE 700		42.0	52.7	73.2	79.4	81.5	87.3	91.1	92.3	94.1	94.6	94.9	95.7	96.9	97.7	98.2
GE 600		42.0	52.7	73.2	79.6	81.7	87.5	91.3	92.5	94.3	94.8	95.2	95.9	97.1	98.0	98.4
GE 500		42.0	52.7	73.2	79.7	81.8	87.6	91.4	92.6	94.4	94.9	95.3	96.0	97.2	98.1	98.5
GE 400		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.2	95.5	96.2	97.4	98.3	98.7
GE 300		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.2	95.5	96.2	97.4	98.3	98.7
GE 200		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.5	95.8	97.0	98.4	99.2	99.7
GE 100		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.6	95.9	97.1	98.5	99.4	99.9
GE 01		42.0	52.7	73.2	79.7	81.8	87.6	91.7	92.9	94.7	95.7	96.0	97.2	98.6	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: AUG

HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24
NO CEIL	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24
GE 20000	10.3	15.2	24.5	28.3	29.7	33.8	36.9	38.5	42.0	42.3	42.9	44.4	46.8	48.1	50.9	
GE 18000	10.3	15.4	25.3	29.0	30.4	34.7	38.1	39.7	43.2	43.8	44.1	45.7	48.1	49.4	52.2	
GE 16000	10.3	15.4	25.3	29.0	30.4	34.8	38.2	39.8	43.3	43.5	44.2	45.8	48.2	49.5	52.3	
GE 14000	10.3	15.4	25.3	29.0	30.4	34.8	38.2	39.8	43.3	43.5	44.2	45.8	48.2	49.5	52.3	
GE 12000	10.6	15.7	25.7	29.5	30.9	35.4	38.8	40.4	44.0	44.2	44.8	46.5	48.8	50.2	53.1	
GE 10000	11.9	17.4	27.8	31.8	33.4	38.0	41.4	43.0	46.7	46.9	47.5	49.1	51.7	53.2	56.2	
GE 9000	12.3	18.0	28.6	32.6	34.2	38.8	42.3	44.0	47.6	47.8	48.5	50.1	52.7	54.3	57.3	
GE 8000	14.7	20.8	33.1	38.1	39.7	44.6	48.3	50.1	54.0	54.4	55.4	57.1	59.9	61.6	64.8	
GE 7000	16.0	22.6	35.5	40.5	42.3	47.4	51.2	53.1	57.1	57.5	58.5	60.2	63.1	64.8	68.1	
GE 6000	16.0	22.7	35.6	40.6	42.4	47.5	51.3	53.2	57.3	57.7	58.7	60.4	63.3	65.1	68.3	
GE 5000	17.6	24.4	37.6	42.8	44.5	49.9	53.8	55.7	60.1	60.5	61.5	63.2	66.2	68.0	71.2	
GE 4500	18.2	24.9	38.6	44.1	45.8	51.6	55.5	57.7	62.3	62.7	63.7	65.4	68.4	70.1	73.3	
GE 4000	19.5	26.7	41.4	47.7	49.7	55.6	59.5	61.7	66.6	67.0	68.0	69.7	73.0	74.7	78.0	
GE 3500	20.3	27.5	42.7	49.2	51.3	57.4	61.6	64.0	69.1	69.6	70.5	72.3	75.6	77.3	80.5	
GE 3000	22.2	30.2	46.0	52.7	55.2	61.5	66.1	68.5	73.8	74.2	75.3	77.0	80.4	82.3	85.5	
GE 2500	23.0	31.1	47.2	53.9	56.3	62.8	67.4	69.8	75.1	75.5	76.6	78.3	81.7	83.5	86.8	
GE 2000	23.4	31.6	48.7	55.8	58.3	65.1	69.9	72.5	77.8	78.3	79.4	81.1	84.5	86.3	89.6	
GE 1800	23.4	31.6	48.8	56.0	58.5	65.3	70.1	72.7	78.1	78.5	79.6	81.3	84.7	86.6	89.8	
GE 1500	23.5	31.8	49.7	57.4	59.9	66.9	71.8	74.4	79.8	80.2	81.4	83.1	86.6	88.4	91.6	
GE 1200	24.1	32.6	50.8	58.5	61.0	68.1	73.0	75.6	81.0	81.4	82.6	84.3	87.7	89.6	92.8	
GE 1000	24.1	32.7	51.2	58.9	61.5	69.0	74.1	76.8	82.2	82.6	83.8	85.5	88.9	90.8	94.0	
GE 900	24.1	32.7	51.4	59.1	61.7	69.2	74.4	77.1	82.5	82.9	84.1	85.8	89.2	91.1	94.3	
GE 800	24.1	32.7	51.4	59.1	61.7	69.2	74.5	77.2	82.7	83.1	84.3	86.0	89.5	91.3	94.5	
GE 700	24.1	32.7	51.4	59.1	61.7	69.6	74.8	77.5	83.0	83.4	84.8	86.6	90.0	91.8	95.1	
GE 600	24.1	32.7	51.5	59.4	62.0	69.9	75.3	78.0	83.4	83.9	85.3	87.0	90.4	92.3	95.5	
GE 500	24.1	32.7	51.5	59.4	62.0	69.9	75.7	78.4	83.9	84.3	85.7	87.4	90.9	92.7	95.9	
GE 400	24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.3	84.7	86.1	88.2	91.6	93.4	96.7	
GE 300	24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	84.8	86.2	88.3	91.7	93.5	96.8	
GE 200	24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	84.9	86.5	88.7	92.5	94.5	98.3	
GE 100	24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	85.1	86.6	89.1	93.1	95.3	99.5	
GE 0	24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	85.1	86.6	89.1	93.1	95.3	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: 106P70 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(1ST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	7.7	9.9	17.2	22.3	24.3	28.3	30.5	31.2	33.4	33.9	35.2	35.8	37.6	38.3	40.6	
GE 20000	8.5	10.9	18.9	24.2	26.3	30.9	33.4	34.1	36.5	36.9	38.2	38.9	40.8	41.4	43.8	
GE 18000	9.4	11.7	20.1	25.4	27.5	32.2	34.7	35.4	37.7	38.2	39.5	40.3	42.2	42.8	45.2	
GE 16000	9.5	11.8	20.2	25.6	27.7	32.5	35.1	35.8	38.2	38.6	39.9	40.8	42.6	43.2	45.6	
GE 14000	9.5	11.8	20.2	25.7	27.8	32.6	35.2	35.9	38.3	38.7	40.0	40.9	42.7	43.3	45.7	
GE 12000	9.5	11.8	20.4	26.1	28.3	33.1	35.9	36.7	39.2	39.7	41.0	41.8	43.7	44.3	46.7	
GE 10000	10.8	13.3	22.8	28.8	31.3	36.2	39.0	39.8	42.5	42.9	44.2	45.1	47.0	47.6	50.2	
GE 9000	11.2	13.8	23.3	29.7	32.2	37.1	40.0	40.9	43.5	44.0	45.3	46.2	48.2	48.9	51.6	
GE 8000	12.8	16.3	27.2	34.4	37.0	42.8	45.8	46.7	49.7	50.3	51.6	52.6	54.5	55.3	58.0	
GE 7000	13.7	17.3	29.0	36.7	39.2	45.5	49.0	50.0	53.1	53.8	55.1	56.1	58.2	59.0	61.8	
GE 6000	13.7	17.3	29.0	36.7	39.2	45.5	49.0	50.0	53.1	53.8	55.1	56.1	58.2	59.0	61.8	
GE 5000	14.4	18.5	30.8	38.5	41.3	48.1	51.7	52.7	55.9	56.7	58.0	59.0	61.1	61.9	64.7	
GE 4500	14.9	19.5	31.9	39.7	42.7	49.8	53.7	54.7	58.1	58.8	60.1	61.2	63.2	64.1	66.9	
GE 4000	16.5	21.0	34.5	43.2	46.3	53.7	58.0	59.0	62.5	63.3	64.8	65.9	68.2	69.0	71.8	
GE 3500	17.1	21.6	35.5	44.6	48.0	55.3	60.0	61.1	64.5	65.4	66.9	68.0	70.2	71.1	73.9	
GE 3000	18.4	23.3	38.4	48.1	51.6	58.9	64.2	65.3	68.8	69.7	71.3	72.6	74.8	75.7	78.5	
GE 2500	19.5	24.5	39.9	49.6	53.2	60.6	65.9	67.0	70.5	71.5	73.1	74.4	76.7	77.5	80.3	
GE 2000	21.0	26.2	42.3	52.3	56.1	64.0	69.6	70.8	74.5	75.5	77.1	78.4	80.6	81.5	84.3	
GE 1800	21.2	26.5	42.6	52.6	56.5	64.3	69.9	71.1	74.8	75.8	77.4	78.7	81.0	81.8	84.6	
GE 1500	22.3	27.5	44.2	54.4	58.3	66.2	71.9	73.1	77.1	78.2	79.8	81.3	83.5	84.4	87.2	
GE 1200	22.7	28.3	45.4	56.1	60.3	68.4	74.2	75.5	79.6	80.8	82.4	83.9	86.1	87.0	89.8	
GE 1000	22.7	28.5	45.7	56.8	61.4	69.6	75.8	77.1	81.2	82.5	84.2	85.8	88.1	88.9	91.7	
GE 900	22.7	28.5	46.1	57.2	61.8	70.1	76.5	77.7	81.8	83.2	84.9	86.6	88.8	89.7	92.5	
GE 800	22.8	28.6	46.2	57.5	62.2	70.5	77.0	78.5	82.7	84.1	85.8	87.4	89.8	90.6	93.4	
GE 700	22.8	28.6	46.3	57.6	62.3	70.8	77.2	78.7	83.0	84.4	86.1	87.7	90.1	91.0	93.8	
GE 600	22.8	28.6	46.3	57.7	62.4	71.5	78.1	79.7	84.3	85.7	87.4	89.0	91.4	92.3	95.1	
GE 500	22.8	28.6	46.3	57.7	62.4	71.5	78.1	79.7	84.6	86.0	87.7	89.4	91.8	92.8	95.6	
GE 400	22.8	28.6	46.3	57.7	62.5	71.7	78.3	79.9	85.1	86.5	88.3	89.9	92.4	93.3	96.1	
GE 300	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.5	86.9	88.7	90.3	92.9	94.0	96.8	
GE 200	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.4	94.6	98.1	
GE 100	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.5	95.2	99.7	
GE 0	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.7	95.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	1	26.3	28.8	38.5	40.2	41.0	41.0	41.4	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	
GE 20000		29.5	32.3	43.2	45.5	46.3	46.3	46.8	46.9	46.9	46.9	46.9	47.0	47.0	47.0	47.0	
GE 18000		30.3	33.1	44.7	47.0	47.8	47.8	48.3	48.4	48.4	48.4	48.4	48.5	48.5	48.5	48.5	
GE 16000		30.6	33.4	45.2	47.5	48.4	48.4	48.8	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0	
GE 14000		30.8	33.5	45.4	47.8	48.7	48.7	49.1	49.2	49.2	49.2	49.2	49.4	49.4	49.4	49.4	
GE 12000		31.1	34.0	46.3	48.8	49.7	49.7	50.1	50.2	50.2	50.2	50.2	50.3	50.3	50.3	50.3	
GE 10000		33.1	36.0	48.6	51.1	52.0	52.0	52.6	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.8	
GE 9000		33.5	36.5	49.2	51.7	52.7	52.7	53.2	53.3	53.3	53.3	53.3	53.4	53.4	53.4	53.4	
GE 8000		36.5	40.1	53.8	57.1	58.1	58.4	58.9	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.2	
GE 7000		37.8	41.7	55.8	59.2	60.3	60.8	61.3	61.4	61.5	61.5	61.5	61.6	61.6	61.6	61.6	
GE 6000		38.3	42.2	56.2	59.8	60.9	61.3	61.8	61.9	62.0	62.0	62.0	62.2	62.2	62.2	62.2	
GE 5000		39.9	44.0	58.4	62.2	63.4	64.0	64.5	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.8	
GE 4500		41.4	45.6	60.5	64.3	65.6	66.1	66.7	66.8	66.9	66.9	66.9	67.0	67.0	67.0	67.0	
GE 4000		44.3	48.7	64.4	68.3	69.6	70.2	70.8	70.9	71.1	71.1	71.1	71.2	71.2	71.2	71.2	
GE 3500		46.0	50.5	67.1	71.1	72.4	73.1	73.8	73.9	74.1	74.1	74.1	74.2	74.2	74.2	74.2	
GE 3000		52.4	57.4	75.3	79.6	80.9	81.7	82.5	82.7	83.1	83.1	83.1	83.2	83.2	83.2	83.2	
GE 2500		54.9	60.1	78.6	83.1	84.4	85.4	86.1	86.3	86.8	86.8	86.8	86.9	86.9	86.9	86.9	
GE 2000		56.5	61.7	80.8	85.6	86.9	88.2	88.9	89.1	89.6	89.6	89.8	89.9	89.9	89.9	89.9	
GE 1800		56.8	62.0	81.2	86.1	87.4	88.7	89.7	89.9	90.3	90.3	90.5	90.6	90.6	90.6	90.6	
GE 1500		57.7	63.2	82.7	87.7	89.2	90.5	91.8	92.0	92.5	92.5	92.7	92.8	92.8	92.8	92.8	
GE 1200		58.3	64.1	84.1	89.1	90.8	92.2	93.5	93.8	94.4	94.4	94.6	94.7	94.7	94.7	94.7	
GE 1000		58.7	64.7	84.9	90.3	92.0	93.5	94.9	95.2	95.8	95.8	96.1	96.2	96.2	96.2	96.2	
GE 900		58.7	64.7	85.5	91.0	92.7	94.3	95.8	96.0	96.7	96.7	97.0	97.1	97.1	97.1	97.1	
GE 800		58.7	64.7	85.6	91.2	92.9	94.8	96.3	96.6	97.2	97.2	97.5	97.6	97.6	97.6	97.6	
GE 700		58.7	64.7	85.8	91.4	93.2	95.2	96.8	97.0	97.7	97.7	98.1	98.2	98.2	98.2	98.2	
GE 600		58.7	64.7	85.8	91.4	93.3	95.3	97.0	97.2	98.1	98.1	98.4	98.5	98.5	98.5	98.5	
GE 500		58.7	64.7	85.8	91.4	93.4	95.4	97.2	97.4	98.3	98.4	98.7	98.8	98.9	98.9	98.9	
GE 400		58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.8	98.9	99.2	99.4	99.5	99.5	99.5	
GE 300		58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 200		58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 100		58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 0		58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	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 FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: AUG HOURS: 1200-1400

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		35.2	35.4	36.7	36.8	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	
GE 20000		41.3	42.0	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	
GE 18000		42.7	43.4	45.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
GE 16000		42.8	43.5	45.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	
GE 14000		43.1	43.9	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	
GE 12000		43.5	44.3	46.0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	
GE 10000		45.9	46.9	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	
GE 9000		47.2	48.2	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	
GE 8000		52.4	53.4	57.0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	
GE 7000		54.4	55.6	59.4	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	
GE 6000		55.1	56.2	60.2	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	
GE 5000		57.2	58.4	62.6	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	
GE 4500		58.9	60.1	64.6	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 4000		64.6	66.3	72.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
GE 3500		69.7	71.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	
GE 3000		79.0	82.2	89.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	
GE 2500		81.5	84.6	92.2	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	
GE 2000		82.4	85.5	93.1	94.9	95.2	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	
GE 1800		82.8	85.9	93.8	95.6	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	
GE 1500		83.2	86.5	94.9	96.9	97.1	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
GE 1200		83.8	87.0	96.1	98.1	98.3	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	
GE 1000		84.0	87.2	96.6	98.6	98.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
GE 900		84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 800		84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 700		84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 600		84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 500		84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 400		84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 300		84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 200		84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
GE 100		84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	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: 106870 STATION NAME: GRAFENVOHR AAF GFR

PERIOD OF RECORD: 77-66
MONTH: AUG HOURS(LST): 1500-1700

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	GE 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.0	39.5	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 20000		46.0	46.5	47.5	47.5	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 18000		47.1	47.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 16000		47.3	47.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 14000		47.5	48.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 12000		48.4	48.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
GE 10000		50.8	51.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 9000		52.2	52.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 8000		58.0	59.1	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 7000		61.5	62.7	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 6000		62.0	63.2	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 5000		65.3	66.6	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 4500		68.4	69.9	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 4000		75.1	77.1	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6
GE 3500		78.9	81.2	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7
GE 3000		86.3	88.9	93.4	94.1	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6
GE 2500		87.6	90.3	94.8	95.6	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1
GE 2000		88.0	91.1	95.8	97.0	97.1	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8
GE 1800		88.1	91.2	96.0	97.2	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1
GE 1500		88.4	91.5	96.9	98.1	98.2	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
GE 1200		88.4	91.5	97.1	98.4	98.5	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 1000		88.4	91.5	97.1	98.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 900		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 800		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 700		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 600		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 500		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	41.0	42.8	44.7	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 20000	47.3	49.8	52.5	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 18000	48.3	51.1	54.0	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 16000	48.3	51.1	54.0	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 14000	48.7	51.5	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 12000	49.7	52.6	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 10000	52.4	55.4	58.6	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 9000	53.9	56.9	60.4	61.0	61.1	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 8000	59.5	63.3	67.6	68.2	68.4	68.6	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 7000	62.6	66.7	71.0	71.7	71.9	72.2	72.2	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 6000	63.5	67.6	71.9	72.7	72.9	73.1	73.1	73.1	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 5000	65.8	70.0	75.3	76.0	76.2	76.5	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 4500	68.6	72.9	78.8	79.7	79.9	80.3	80.4	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4000	74.5	79.2	85.5	86.9	87.2	87.6	88.0	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 3500	75.8	80.5	86.8	88.2	88.5	88.9	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 3000	79.1	84.4	91.3	92.7	93.1	93.7	94.3	94.3	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7
GE 2500	79.8	85.3	92.6	94.2	94.6	95.2	95.8	95.8	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1800	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1200	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 800	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 100	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 0	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7

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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 90	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		35.6	40.4	47.7	50.2	50.4	51.6	52.0	52.0	52.5	52.6	52.8	52.8	52.9	52.9	52.9	
GE 20000		39.2	44.4	54.5	57.7	58.0	59.2	59.7	59.7	60.1	60.2	60.4	60.4	60.5	60.5	60.5	
GE 18000		39.5	45.2	55.9	59.1	59.4	60.6	61.1	61.1	61.5	61.6	61.8	61.8	61.9	61.9	61.9	
GE 16000		39.5	45.2	55.9	59.1	59.4	60.6	61.1	61.1	61.5	61.6	61.8	61.8	61.9	61.9	61.9	
GE 14000		39.9	45.6	56.3	59.7	59.9	61.2	61.6	61.6	62.0	62.2	62.4	62.4	62.5	62.5	62.5	
GE 12000		40.9	46.6	57.4	60.8	61.0	62.3	62.7	62.7	63.1	63.2	63.4	63.4	63.5	63.5	63.5	
GE 10000		43.6	49.7	60.9	64.2	64.4	65.8	66.2	66.2	66.7	66.8	67.0	67.0	67.1	67.1	67.1	
GE 9000		44.9	50.9	62.5	65.8	66.0	67.4	67.8	67.8	68.3	68.4	68.6	68.6	68.7	68.7	68.7	
GE 8000		48.3	55.3	67.2	70.9	71.1	72.7	73.4	73.4	73.9	74.0	74.2	74.2	74.3	74.3	74.3	
GE 7000		49.1	56.5	69.1	73.0	73.2	74.8	75.6	75.6	76.0	76.2	76.5	76.5	76.6	76.6	76.6	
GE 6000		49.9	57.2	69.5	73.8	74.0	75.6	76.3	76.3	76.8	77.0	77.2	77.2	77.3	77.3	77.3	
GE 5000		51.9	59.5	73.1	77.0	77.2	79.0	79.8	79.8	80.2	80.4	80.6	80.6	80.8	80.8	80.8	
GE 4500		52.9	60.5	74.6	78.5	78.7	80.5	81.4	81.4	81.8	82.0	82.3	82.3	82.4	82.4	82.4	
GE 4000		57.0	64.9	79.2	83.4	83.7	85.6	86.6	86.6	87.3	87.6	87.8	87.8	88.2	88.2	88.2	
GE 3500		57.4	65.4	80.0	84.2	84.4	86.3	87.5	87.5	88.7	89.0	89.2	89.2	89.6	89.6	89.6	
GE 3000		59.6	67.7	83.0	87.5	87.7	89.7	90.9	90.9	92.0	92.4	92.8	92.8	93.1	93.1	93.1	
GE 2500		60.1	68.4	83.7	88.4	88.7	90.9	92.2	92.2	93.3	93.7	94.1	94.1	94.4	94.4	94.4	
GE 2000		60.4	68.7	84.3	89.2	90.0	92.5	93.9	93.9	95.1	95.4	95.8	95.8	96.1	96.1	96.1	
GE 1800		60.4	68.7	84.3	89.2	90.0	92.5	93.9	93.9	95.1	95.4	95.8	95.8	96.1	96.1	96.1	
GE 1500		60.5	68.8	84.7	89.8	90.5	93.9	95.4	95.4	96.6	96.9	97.3	97.3	97.6	97.6	97.6	
GE 1200		60.5	68.8	85.1	90.2	91.2	94.5	96.0	96.1	97.3	97.6	98.1	98.1	98.4	98.4	98.4	
GE 1000		60.5	68.8	85.2	90.5	91.6	95.2	96.8	96.9	98.1	98.4	98.8	98.8	99.1	99.1	99.1	
GE 900		60.5	68.8	85.2	90.5	91.6	95.2	96.8	96.9	98.1	98.4	98.8	98.8	99.1	99.1	99.1	
GE 800		60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.6	99.0	99.0	99.4	99.4	99.4	
GE 700		60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.6	99.0	99.0	99.4	99.4	99.4	
GE 600		60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.6	99.2	99.2	99.6	99.6	99.6	
GE 500		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 400		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 300		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 200		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.6	99.9	99.9	99.9	
GE 100		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.7	100.0	100.0	100.0	
GE 0		60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.7	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
 SAFETAC
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	27.3	30.1	36.0	38.2	38.9	40.4	41.4	41.8	42.7	42.8	43.1	43.5	44.2	44.5	45.2	
GE 20000	31.1	34.2	41.3	43.8	44.6	46.2	47.2	47.7	48.6	48.7	49.0	49.4	50.1	50.4	51.1	
GE 18000	31.7	35.1	42.6	45.1	45.8	47.5	48.6	49.0	50.0	50.1	50.4	50.8	51.5	51.8	52.5	
GE 16000	31.8	35.2	42.7	45.2	46.0	47.6	48.8	49.2	50.1	50.3	50.6	51.0	51.7	52.0	52.7	
GE 14000	32.1	35.4	42.9	45.5	46.3	47.9	49.0	49.5	50.4	50.6	50.9	51.3	52.0	52.3	53.0	
GE 12000	32.6	36.0	43.7	46.3	47.0	48.7	49.9	50.3	51.3	51.4	51.7	52.2	52.8	53.2	53.9	
GE 10000	34.7	38.2	46.3	49.0	49.8	51.6	52.7	53.2	54.2	54.3	54.6	55.1	55.8	56.1	56.9	
GE 9000	35.6	39.2	47.4	50.2	51.0	52.8	54.0	54.5	55.5	55.7	56.0	56.4	57.1	57.5	58.3	
GE 8000	39.2	43.5	52.6	56.0	56.9	58.9	60.3	60.8	61.9	62.1	62.4	62.9	63.6	64.0	64.8	
GE 7000	41.0	45.5	55.3	58.6	59.5	61.7	63.1	63.6	64.8	65.0	65.3	65.8	66.6	67.0	67.8	
GE 6000	41.4	45.9	55.7	59.1	60.0	62.2	63.6	64.1	65.3	65.5	65.8	66.3	67.1	67.5	68.3	
GE 5000	43.3	48.0	58.3	61.8	62.7	65.3	66.5	67.0	68.2	68.5	68.8	69.3	70.1	70.5	71.3	
GE 4500	44.8	49.7	60.4	63.9	64.9	67.3	68.8	69.4	70.7	70.9	71.3	71.7	72.5	72.9	73.7	
GE 4000	48.7	54.0	65.4	69.4	70.4	72.9	74.5	75.1	76.5	76.7	77.1	77.6	78.5	78.9	79.7	
GE 3500	50.5	55.9	67.7	71.8	72.9	75.4	77.2	77.8	79.3	79.6	79.9	80.4	81.3	81.7	82.5	
GE 3000	54.7	60.7	73.3	77.5	78.6	81.5	83.5	84.1	85.6	85.9	86.3	86.8	87.7	88.2	89.0	
GE 2500	56.0	62.0	74.9	79.3	80.7	83.4	85.4	86.0	87.6	87.9	88.3	88.8	89.7	90.2	91.0	
GE 2000	56.7	62.8	76.3	81.0	82.4	85.4	87.6	88.2	89.8	90.1	90.6	91.1	92.0	92.4	93.2	
GE 1800	56.8	63.0	76.5	81.3	82.7	85.6	87.8	88.5	90.1	90.4	90.8	91.3	92.2	92.7	93.5	
GE 1500	57.2	63.4	77.4	82.3	83.8	86.9	89.2	89.9	91.5	91.8	92.3	92.8	93.7	94.2	95.0	
GE 1200	57.5	63.8	78.1	83.2	84.7	88.0	90.4	91.1	92.7	93.1	93.5	94.1	95.0	95.4	96.2	
GE 1000	57.6	64.0	78.4	83.6	85.3	88.7	91.2	91.9	93.6	93.9	94.4	95.0	95.9	96.3	97.1	
GE 900	57.6	64.0	78.6	83.9	85.6	89.0	91.6	92.3	94.0	94.3	94.8	95.4	96.3	96.7	97.5	
GE 800	57.6	64.0	78.7	84.0	85.6	89.2	91.7	92.5	94.2	94.5	95.1	95.6	96.5	96.9	97.8	
GE 700	57.6	64.0	78.7	84.0	85.7	89.3	91.9	92.6	94.4	94.7	95.3	95.8	96.7	97.2	98.0	
GE 600	57.6	64.0	78.7	84.1	85.8	89.5	92.1	92.8	94.7	95.1	95.6	96.1	97.1	97.5	98.3	
GE 500	57.6	64.1	78.8	84.2	85.9	89.6	92.3	93.0	94.9	95.3	95.8	96.4	97.3	97.8	98.6	
GE 400	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.1	95.5	96.0	96.6	97.6	98.0	98.8	
GE 300	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.6	96.2	96.7	97.7	98.2	99.0	
GE 200	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.7	96.3	96.9	98.0	98.5	99.5	
GE 100	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.7	96.3	97.0	98.1	98.7	99.9	
GE 0	57.6	64.1	78.8	84.2	86.0	89.7	92.5	93.2	95.2	95.7	96.3	97.0	98.2	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7940

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 01 0-2000

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET		GL 160	GE 90	GE 80	GE 60	GE 48	GE 40	GL 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GL 4	GE 0
NO CEIL		20.7	25.7	34.0	38.9	40.0	42.7	44.9	45.6	46.9	47.3	48.1	49.1	49.6	50.4	52.1	
GE 20000		22.0	27.2	36.1	41.3	42.5	45.3	47.5	48.3	49.6	50.0	50.8	51.8	52.5	53.4	55.4	
GE 18000		22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 16000		22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 14000		22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 12000		22.1	27.4	36.7	41.8	43.1	45.9	48.2	49.1	50.4	50.9	51.7	52.7	53.4	54.3	56.3	
GE 10000		23.9	29.6	39.1	44.9	46.1	49.3	51.7	52.6	53.9	54.4	55.1	56.2	56.9	57.8	59.8	
GE 9000		24.5	30.2	39.7	45.4	46.6	50.1	52.5	53.4	54.7	55.1	55.9	56.9	57.7	58.6	60.6	
GE 8000		27.0	33.2	43.3	49.2	50.4	54.0	56.4	57.3	58.6	59.1	59.8	60.9	61.6	62.5	64.5	
GE 7000		28.3	34.7	44.7	50.8	52.1	55.9	58.3	59.2	60.5	61.1	61.9	62.9	63.6	64.7	66.8	
GE 6000		29.3	35.7	45.9	51.9	53.1	57.0	59.4	60.3	61.6	62.2	63.0	64.0	64.8	65.8	67.9	
GE 5000		31.2	37.6	48.0	54.3	55.6	59.5	62.0	62.9	64.2	64.8	65.5	66.6	67.3	68.3	70.5	
GE 4500		32.1	38.6	49.4	55.7	57.2	61.2	63.6	64.5	65.9	66.4	67.3	68.3	69.1	70.1	72.3	
GE 4000		34.7	41.8	54.0	61.1	62.8	66.8	69.5	70.4	71.9	72.5	73.4	74.6	75.4	76.4	78.5	
GE 3500		35.5	42.8	55.1	62.6	64.3	68.3	71.3	72.5	74.0	74.6	75.5	76.7	77.6	78.6	80.8	
GE 3000		37.4	45.1	58.9	67.3	69.1	73.6	76.5	77.7	79.3	79.9	80.8	82.1	83.0	84.0	86.4	
GE 2500		38.5	46.4	61.0	69.4	71.3	76.1	79.0	80.2	81.8	82.3	83.2	84.6	85.5	86.5	88.8	
GE 2000		40.2	48.2	63.9	72.3	74.5	80.2	83.4	84.7	86.5	87.0	87.9	89.3	90.2	91.2	93.5	
GE 1800		40.3	48.4	64.1	72.5	74.7	80.5	83.8	85.0	86.8	87.4	88.3	89.6	90.5	91.5	93.8	
GE 1500		40.7	49.1	64.9	73.5	75.7	81.8	85.1	86.4	88.1	88.7	89.6	90.9	91.8	92.8	95.2	
GE 1200		40.8	49.4	65.2	73.8	76.2	82.6	85.9	87.1	88.9	89.5	90.4	91.7	92.6	93.6	96.0	
GE 1000		40.8	49.4	65.3	74.0	76.4	82.8	86.1	87.4	89.1	89.7	90.6	91.9	92.8	93.8	96.2	
GL 900		40.8	49.4	65.3	74.2	76.5	82.9	86.2	87.5	89.3	89.8	90.7	92.1	93.0	94.0	96.3	
GE 800		40.8	49.4	65.5	74.6	77.0	83.3	86.7	87.9	89.7	90.3	91.2	92.5	93.4	94.4	96.8	
GE 700		40.8	49.4	65.5	74.7	77.1	83.4	86.8	88.0	89.8	90.4	91.3	92.6	93.5	94.5	96.9	
GE 600		40.8	49.4	65.5	74.7	77.1	83.4	86.8	88.0	89.8	90.4	91.3	92.6	93.5	94.5	96.9	
GE 500		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	90.9	91.8	93.2	94.1	95.1	97.4	
GE 400		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	91.1	91.9	93.3	94.2	95.2	97.5	
GE 300		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	91.1	91.9	93.3	94.2	95.4	98.1	
GE 200		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.5	94.5	96.0	98.7	
GE 100		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.7	94.9	96.8	99.9	
GE 01		40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.7	95.0	96.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 90	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		12.4	16.6	23.3	27.3	28.5	31.9	33.6	35.1	37.5	38.1	38.9	40.8	42.4	44.0	46.9	
GE 20000		12.8	17.4	24.3	28.4	29.6	33.3	35.2	36.8	39.1	39.8	40.7	42.8	44.4	46.2	49.2	
GE 18000		12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 16000		12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 14000		12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 12000		12.8	17.6	24.6	28.9	30.2	33.8	35.7	37.2	39.6	40.3	41.2	43.3	44.9	46.6	49.7	
GE 10000		14.0	19.0	26.3	31.1	32.4	36.4	38.3	39.8	42.3	43.0	43.8	46.1	47.8	49.7	52.7	
GE 9000		14.3	19.4	26.6	31.4	32.8	37.0	38.9	40.5	43.1	43.7	44.6	46.9	48.5	50.4	53.5	
GE 8000		15.7	21.4	29.0	34.0	35.3	40.0	41.9	43.5	46.1	46.8	47.7	49.9	51.6	53.5	56.5	
GE 7000		16.3	22.1	30.1	35.3	36.7	41.5	43.4	45.0	47.5	48.2	49.1	51.3	53.0	54.9	57.9	
GE 6000		17.0	23.0	31.2	36.6	37.9	42.7	44.6	46.2	48.8	49.4	50.3	52.6	54.3	56.2	59.2	
GE 5000		18.7	25.1	33.4	39.0	40.4	45.7	47.7	49.2	51.8	52.5	53.4	55.6	57.3	59.2	62.2	
GE 4500		19.4	25.7	35.0	40.6	41.9	47.7	49.7	51.2	53.8	54.5	55.4	57.6	59.3	61.2	64.2	
GE 4000		21.5	28.3	38.8	45.1	46.6	52.7	54.9	56.5	59.1	59.7	60.6	63.2	64.9	66.8	69.9	
GE 3500		22.5	29.9	40.7	47.4	49.1	55.1	57.4	59.2	61.7	62.4	63.3	65.9	67.8	69.7	72.8	
GE 3000		24.2	31.9	43.6	51.2	53.4	60.1	62.4	64.5	67.2	67.9	68.8	71.4	73.4	75.3	78.5	
GE 2500		25.3	33.3	45.7	53.5	55.6	62.8	65.3	67.4	70.1	70.8	71.7	74.3	76.3	78.2	81.4	
GE 2000		27.4	35.5	48.7	56.4	58.9	66.8	69.6	71.7	74.4	75.1	76.0	78.5	80.6	82.6	85.8	
GE 1800		27.7	35.8	49.0	57.0	59.6	67.4	70.2	72.4	75.1	75.7	76.6	79.2	81.3	83.2	86.5	
GE 1500		28.6	36.8	50.1	58.5	61.1	68.9	71.9	74.3	77.0	77.6	78.5	81.1	83.2	85.1	88.4	
GE 1200		29.2	37.5	50.9	59.4	62.1	70.4	73.4	75.7	78.5	79.2	80.1	82.9	85.0	86.9	90.2	
GE 1000		29.5	37.8	51.3	60.0	62.9	71.7	75.1	77.5	80.5	81.2	82.1	84.9	87.0	88.9	92.2	
GE 900		29.5	37.8	51.5	60.1	63.1	72.0	75.4	77.9	80.9	81.5	82.4	85.2	87.4	89.3	92.5	
GE 800		29.6	38.0	51.7	60.4	63.3	72.4	75.7	78.2	81.2	81.9	82.8	85.6	87.7	89.6	92.8	
GE 700		29.8	38.0	51.7	60.7	63.6	72.7	76.2	78.9	81.9	82.6	83.4	86.2	88.4	90.3	93.5	
GE 600		29.8	38.0	51.7	60.7	63.6	72.7	76.2	79.0	82.0	82.8	83.6	86.6	88.7	90.6	93.8	
GE 500		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	90.9	94.2	
GE 400		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	90.9	94.4	
GE 300		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	91.9	96.1	
GE 200		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	87.1	89.4	92.3	97.3	
GE 100		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.2	84.2	87.4	89.9	92.8	99.3	
GE 0		29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.2	84.3	87.5	90.0	93.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 844

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

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP MONTHS(LST): 0600-0800

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0		
NO CEIL		4.6	6.3	11.1	14.1	15.1	18.1	21.1	21.8	24.1	25.0	25.5	26.8	28.5	30.4	34.1	
GE 2000		5.5	7.5	13.0	16.2	17.4	20.8	24.2	25.0	27.5	28.5	29.2	30.7	33.0	35.0	39.1	
GE 1800		5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.3	27.7	28.7	29.4	30.9	33.2	35.2	39.3	
GE 1600		5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.3	27.7	28.7	29.4	30.9	33.2	35.2	39.3	
GE 1400		5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.5	27.9	28.9	29.6	31.2	33.4	35.4	39.6	
GE 1200		5.6	7.6	13.2	16.5	17.8	21.2	24.7	25.7	28.2	29.2	29.8	31.4	33.6	35.6	39.9	
GE 1000		6.1	8.5	14.6	18.4	19.8	23.5	26.9	28.0	30.5	31.5	32.2	34.0	36.2	38.3	42.6	
GE 900		6.4	8.8	15.2	19.0	20.3	24.1	27.6	28.7	31.2	32.2	32.8	34.6	36.9	39.0	43.4	
GE 800		8.3	10.9	18.2	22.8	24.1	28.8	32.6	34.0	36.4	37.4	38.1	39.9	42.1	44.2	48.6	
GE 700		9.3	12.0	19.6	24.6	25.9	30.8	34.7	36.1	38.8	39.8	40.4	42.2	44.5	46.6	50.9	
GE 600		9.4	12.1	19.7	24.7	26.0	31.3	35.2	36.5	39.3	40.3	41.0	42.8	45.0	47.2	51.6	
GE 500		10.4	13.3	21.1	26.8	28.3	33.7	37.8	39.1	42.1	43.1	43.8	45.6	47.8	49.9	54.5	
GE 450		11.6	14.6	22.8	28.8	30.4	36.4	40.4	41.9	44.9	46.0	46.7	48.6	50.8	53.0	57.5	
GE 400		13.3	16.8	25.8	32.4	34.2	40.6	44.8	46.5	50.1	51.2	52.1	54.0	56.2	58.3	62.9	
GE 350		14.9	18.4	28.2	35.0	36.8	43.2	47.5	49.2	52.7	53.9	55.0	56.9	59.1	61.2	65.8	
GE 300		17.2	21.0	30.9	38.5	40.3	47.5	52.0	53.7	57.7	58.8	60.0	62.1	64.4	66.7	71.3	
GE 250		19.2	23.0	33.3	41.6	43.5	50.7	55.4	57.2	61.3	62.5	63.9	66.0	68.3	70.6	75.2	
GE 200		21.5	25.5	37.3	45.9	48.2	55.8	60.6	62.3	66.6	67.7	69.2	71.3	73.5	75.9	80.4	
GE 180		21.5	25.5	37.3	46.3	48.5	56.1	61.0	62.8	67.0	68.2	69.6	71.7	74.0	76.3	80.9	
GE 150		22.5	26.8	39.0	47.9	50.2	58.1	63.4	65.1	69.4	70.5	72.0	74.2	76.4	78.8	83.4	
GE 120		22.7	27.0	40.0	49.9	53.2	61.2	66.6	68.4	73.3	74.4	76.1	78.3	80.6	82.9	87.5	
GE 100		22.9	27.3	40.4	50.6	53.9	61.9	67.5	69.3	74.4	75.5	77.3	79.6	81.9	84.2	88.8	
GE 90		22.9	27.3	40.4	50.6	53.9	61.9	67.5	69.3	74.7	75.9	77.7	79.9	82.2	84.6	89.2	
GE 80		22.9	27.6	40.9	51.1	54.3	62.3	67.9	69.7	75.2	76.3	78.2	80.4	82.8	85.1	89.7	
GE 70		22.9	27.6	41.2	51.4	54.6	62.7	68.3	70.1	75.6	76.8	78.7	80.9	83.2	85.6	90.2	
GE 60		22.9	27.6	41.2	51.5	54.7	62.8	68.4	70.2	75.8	76.9	78.8	81.0	83.4	85.7	90.3	
GE 50		22.9	27.7	41.5	51.8	55.1	63.2	68.8	70.6	76.2	77.3	79.2	81.5	83.8	86.1	90.8	
GE 40		22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.7	76.5	77.7	79.6	81.8	84.1	86.5	91.5	
GE 30		22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.7	76.9	78.0	80.0	82.5	84.9	88.0	94.3	
GE 20		22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.8	77.0	78.1	80.2	82.8	85.7	89.4	97.7	
GE 10		22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.8	77.0	78.1	80.3	82.9	86.1	89.9	99.1	
GE 0		22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.9	77.1	78.2	80.4	83.0	86.3	90.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENLOHR AAF GFR

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

IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	16.2	18.7	27.5	30.3	31.0	32.3	33.1	33.2	33.6	33.7	33.7	33.8	34.6	34.7	34.8
GE 2000	19.6	22.4	32.0	35.1	36.0	37.5	38.3	38.4	38.7	38.8	38.8	38.9	39.8	39.9	40.0
GE 1800	19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 1600	19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 1400	19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 1200	20.2	23.2	33.0	36.1	37.1	38.6	39.5	39.6	39.9	40.0	40.0	40.2	41.1	41.2	41.3
GE 1000	20.9	24.4	35.1	38.6	39.6	41.1	41.9	42.1	42.4	42.5	42.5	42.6	43.5	43.6	43.7
GE 900	21.4	24.9	36.0	39.5	40.5	42.2	43.1	43.2	43.5	43.6	43.6	43.7	44.6	44.7	44.9
GE 800	23.4	27.1	39.4	43.3	44.3	46.3	47.4	47.5	47.9	48.0	48.0	48.1	49.0	49.1	49.2
GE 700	24.6	28.4	41.2	45.1	46.1	48.2	49.3	49.4	49.8	49.9	49.9	50.0	50.9	51.0	51.1
GE 600	24.7	28.5	41.6	45.6	46.6	48.8	49.9	50.0	50.3	50.4	50.4	50.6	51.5	51.6	51.7
GE 500	25.7	29.6	42.8	47.5	48.5	50.7	51.9	52.0	52.3	52.5	52.5	52.6	53.5	53.6	53.7
GE 450	26.5	30.4	44.0	48.8	49.8	51.9	53.1	53.2	53.6	53.7	53.7	53.8	54.7	54.8	54.9
GE 400	30.0	33.9	48.2	53.2	54.4	56.6	57.8	57.9	58.5	58.6	58.6	58.7	59.6	59.7	59.8
GE 350	32.7	36.6	51.5	56.5	57.6	60.0	61.4	61.5	62.1	62.2	62.2	62.3	63.2	63.3	63.4
GE 300	38.1	42.3	57.7	63.1	64.2	66.9	68.6	68.7	69.2	69.4	69.4	69.5	70.4	70.5	70.6
GE 250	40.8	45.4	61.4	66.9	68.2	71.0	72.8	72.9	73.5	73.6	73.6	73.7	74.6	74.7	74.8
GE 200	44.2	49.0	66.0	72.1	73.7	76.7	78.7	78.9	79.8	79.9	79.9	80.0	80.9	81.0	81.1
GE 180	44.7	49.6	67.1	73.3	74.8	77.9	79.9	80.0	80.9	81.0	81.0	81.1	82.0	82.1	82.2
GE 150	46.9	52.1	69.7	76.1	78.1	81.4	83.8	83.9	84.8	84.9	84.9	85.0	85.9	86.0	86.1
GE 120	47.7	53.0	71.1	78.1	80.8	84.1	86.8	86.9	88.1	88.3	88.3	88.4	89.3	89.4	89.5
GE 100	47.8	53.1	72.1	79.3	82.0	85.7	88.8	88.9	90.4	90.5	90.5	90.6	91.5	91.6	91.7
GE 90	47.9	53.2	72.3	79.4	82.2	86.0	89.1	89.3	90.7	90.8	90.8	90.9	91.8	91.9	92.1
GE 80	47.9	53.4	72.4	79.5	82.3	86.1	89.3	89.4	90.8	90.9	90.9	91.1	91.9	92.1	92.2
GE 70	47.9	53.4	72.7	80.0	82.9	86.8	90.0	90.2	91.9	92.1	92.1	92.4	93.3	93.4	93.5
GE 60	47.9	53.4	72.8	80.2	83.1	87.1	90.5	90.7	92.5	92.6	92.7	93.2	94.3	94.4	94.5
GE 50	48.1	53.7	73.2	80.8	84.0	88.0	91.4	91.7	93.8	94.1	94.2	94.9	96.1	96.3	96.4
GE 40	48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.2	96.0	97.3	97.9	98.0
GE 30	48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.3	96.1	97.7	98.5	98.8
GE 20	48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.3	96.2	97.9	98.9	99.6
GE 10	48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.3	96.2	98.0	99.0	99.8
GE 0	48.2	53.8	73.3	80.9	84.2	88.3	91.7	92.4	94.7	95.0	95.4	96.3	98.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 100	GE 90	GE 80	GE 60	GE 40	GE 30	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0		
NO CEIL		31.1	32.3	38.6	38.9	36.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9		
GE 20000		35.6	36.9	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7		
GE 18000		36.2	37.6	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5		
GE 16000		36.2	37.6	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5		
GE 14000		36.2	37.6	44.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6		
GE 12000		37.4	38.8	45.6	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1		
GE 10000		39.7	41.4	46.4	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9		
GE 9000		39.9	41.6	48.8	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2		
GE 8000		43.0	45.0	52.6	53.1	53.1	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4		
GE 7000		44.4	46.5	54.4	54.7	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9		
GE 6000		44.6	46.8	54.6	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1		
GE 5000		46.2	48.4	56.9	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6		
GE 4500		47.2	49.6	58.1	58.8	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1		
GE 4000		52.1	54.7	64.4	65.3	65.3	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7		
GE 3500		56.7	57.3	69.4	70.2	70.2	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6		
GE 3000		65.4	66.5	80.0	81.2	81.2	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0		
GE 2500		69.0	72.1	84.5	85.7	85.7	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7		
GE 2000		72.8	76.2	89.8	91.2	91.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4		
GE 1800		73.4	76.7	90.4	91.7	91.7	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2		
GE 1500		74.7	78.1	92.1	93.5	93.5	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4		
GE 1200		76.0	79.4	93.5	95.2	95.5	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2		
GE 1000		76.0	79.4	93.6	95.6	96.1	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8		
GE 900		76.0	79.4	93.6	95.9	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2		
GE 800		76.0	79.4	93.6	96.2	96.6	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5		
GE 700		76.1	79.5	94.1	96.6	97.1	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3		
GE 600		76.1	79.5	94.1	96.8	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4		
GE 500		76.1	79.6	94.3	97.0	97.4	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8		
GE 400		76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
GE 300		76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
GE 200		76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
GE 100		76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
GE 0		76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		37.5	38.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	
GE 20000		43.6	45.5	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	
GE 18000		45.2	47.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
GE 16000		45.3	47.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	
GE 14000		45.7	47.7	50.0	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 12000		46.9	48.8	51.1	51.1	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	
GE 10000		49.0	51.2	53.9	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	
GE 9000		50.0	52.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	
GE 8000		54.0	56.5	59.5	59.7	59.7	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
GE 7000		55.7	58.2	61.2	61.4	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	
GE 6000		56.2	58.6	61.6	62.0	62.0	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	
GE 5000		60.3	62.9	66.2	66.7	66.7	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
GE 4000		61.7	64.5	68.1	68.6	68.7	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 4000		70.0	72.9	77.0	77.4	77.6	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	
GE 3500		73.7	76.6	81.2	81.7	81.9	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
GE 3000		78.6	81.9	87.4	88.1	88.4	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	
GE 2500		79.5	82.9	89.3	90.0	90.3	90.9	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	
GE 2000		80.6	84.3	91.6	92.7	93.1	94.1	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	
GE 1800		80.9	84.6	92.1	93.2	93.5	94.5	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	
GE 1500		81.5	85.2	92.6	94.2	94.7	96.1	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
GE 1200		81.9	85.6	93.3	95.0	95.7	97.2	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	
GE 1000		82.0	85.7	93.7	95.7	96.5	98.0	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	
GE 900		82.0	85.7	93.7	95.7	96.5	98.0	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	
GE 800		82.0	85.7	93.7	95.7	96.6	98.1	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	
GE 700		82.0	85.7	93.8	96.1	97.0	98.4	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	
GE 600		82.0	85.7	93.8	96.1	97.0	98.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	
GE 500		82.0	85.7	93.8	96.1	97.0	98.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	
GE 400		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
GE 300		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
GE 200		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
GE 100		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
GE 0		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	
TOTAL NUMBER OF OBSERVATIONS:		894															

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	GT 160	VISIBILITY IN HUNDREDS OF METERS														
		GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.1	42.4	45.7	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 20000		45.2	49.0	53.1	54.2	54.2	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 18000		45.7	49.6	53.7	54.7	54.7	54.8	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 16000		45.7	49.6	53.7	54.7	54.7	54.8	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 14000		46.1	49.9	54.0	55.1	55.1	55.2	55.2	55.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 12000		46.6	50.7	54.8	55.8	55.8	56.1	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 10000		49.6	53.6	57.9	58.9	58.9	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 9000		50.6	54.8	59.3	60.3	60.3	60.6	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 8000		55.1	59.4	64.3	65.5	65.5	65.7	66.1	66.2	66.4	66.4	66.5	66.5	66.5	66.5	66.5
GE 7000		58.0	62.6	67.8	69.0	69.1	69.3	69.7	69.8	70.0	70.0	70.1	70.1	70.1	70.1	70.1
GE 6000		58.5	63.3	68.4	69.7	69.9	70.2	70.7	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1
GE 5000		60.4	65.2	70.8	72.0	72.2	72.6	73.0	73.1	73.4	73.4	73.5	73.5	73.5	73.5	73.5
GE 4500		62.2	67.1	73.0	74.3	74.5	74.8	75.4	75.5	75.7	75.7	75.8	75.8	75.8	75.8	75.8
GE 4000		68.2	73.4	80.1	81.6	81.9	82.4	83.0	83.1	83.6	83.6	83.7	83.7	83.7	83.7	83.7
GE 3500		70.7	76.1	83.6	85.7	86.1	86.7	87.5	87.6	88.1	88.1	88.3	88.3	88.3	88.3	88.3
GE 3000		71.6	77.3	86.0	88.4	88.8	89.6	90.3	90.4	90.9	90.9	91.1	91.1	91.1	91.1	91.1
GE 2500		72.0	77.6	86.6	89.6	89.9	90.7	91.6	91.7	92.1	92.2	92.5	92.5	92.5	92.5	92.5
GE 2000		72.8	78.7	88.1	91.2	91.6	92.8	93.9	94.2	94.6	94.7	94.9	94.9	94.9	94.9	94.9
GE 1800		72.8	78.7	88.2	91.3	91.9	93.1	94.3	94.5	95.1	95.2	95.4	95.4	95.4	95.4	95.4
GE 1500		72.9	78.9	88.7	91.9	92.6	94.2	95.3	95.6	96.4	96.5	96.7	96.7	96.7	96.7	96.7
GE 1200		73.3	79.2	89.3	93.1	94.0	95.7	96.9	97.3	98.1	98.2	98.5	98.7	98.7	98.7	98.7
GE 1000		73.3	79.2	89.3	93.3	94.2	96.1	97.2	97.6	98.4	98.5	98.9	99.0	99.0	99.0	99.0
GE 900		73.3	79.2	89.3	93.3	94.4	96.3	97.4	97.9	98.7	98.8	99.1	99.2	99.2	99.2	99.2
GE 800		73.3	79.2	89.3	93.3	94.6	96.5	97.6	98.1	98.9	99.0	99.3	99.4	99.4	99.4	99.4
GE 700		73.3	79.2	89.3	93.4	94.7	96.6	97.8	98.2	99.0	99.1	99.4	99.6	99.6	99.6	99.6
GE 600		73.3	79.2	89.3	93.4	94.7	96.7	97.9	98.3	99.1	99.2	99.6	99.7	99.7	99.7	99.7
GE 500		73.3	79.2	89.3	93.4	94.7	96.7	97.9	98.3	99.1	99.2	99.6	99.7	99.7	99.7	99.7
GE 400		73.3	79.2	89.3	93.4	94.7	96.7	98.0	98.4	99.2	99.3	99.7	99.8	99.8	99.8	99.8
GE 300		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 200		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 100		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 0		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		29.6	35.5	44.5	48.1	48.7	50.5	51.0	51.0	51.6	51.6	52.2	52.5	52.5	52.5	52.9	
GE 20000		32.6	38.6	48.4	52.2	52.8	54.8	55.7	55.8	56.5	56.7	57.3	57.6	57.7	57.7	58.0	
GE 18000		33.0	38.9	48.7	52.6	53.2	55.2	56.1	56.2	56.9	57.1	57.7	58.0	58.2	58.2	58.5	
GE 16000		33.0	38.9	48.7	52.6	53.2	55.2	56.1	56.2	56.9	57.1	57.7	58.0	58.2	58.2	58.5	
GE 14000		33.0	39.1	48.9	52.9	53.4	55.5	56.4	56.5	57.1	57.4	57.9	58.3	58.4	58.4	58.7	
GE 12000		33.5	39.8	49.6	53.7	54.2	56.4	57.3	57.4	58.0	58.3	58.8	59.3	59.4	59.4	59.8	
GE 10000		36.2	43.2	53.1	57.4	57.9	60.3	61.2	61.3	62.0	62.2	62.8	63.2	63.4	63.4	63.9	
GE 9000		36.7	43.9	53.8	58.0	58.6	61.0	61.9	62.0	62.7	62.9	63.4	63.9	64.1	64.1	64.6	
GE 8000		39.5	46.7	56.8	61.2	61.8	64.1	65.2	65.4	66.4	66.7	67.3	67.7	67.9	67.9	68.4	
GE 7000		42.1	49.6	60.5	64.9	65.5	67.8	69.1	69.2	70.3	70.6	71.2	71.7	71.9	71.9	72.3	
GE 6000		43.0	50.6	61.5	65.9	66.6	69.1	70.3	70.4	71.5	71.9	72.4	72.9	73.1	73.1	73.6	
GE 5000		44.5	52.6	63.9	68.4	69.1	71.7	73.0	73.1	74.2	74.6	75.1	75.6	75.8	75.8	76.3	
GE 4500		45.6	53.7	65.2	69.9	70.5	73.1	74.5	74.7	75.8	76.2	76.7	77.2	77.4	77.4	77.8	
GE 4000		48.4	56.9	69.5	74.7	75.6	78.2	79.8	80.0	81.3	81.7	82.2	82.7	83.0	83.0	83.5	
GE 3500		49.7	58.6	72.0	77.8	78.7	81.4	83.1	83.4	84.7	85.0	85.6	86.1	86.4	86.4	86.8	
GE 3000		51.2	60.5	75.0	82.0	83.0	86.2	88.1	88.3	89.7	90.0	90.6	91.0	91.3	91.3	91.8	
GE 2500		51.4	60.9	75.8	82.8	83.8	87.3	89.2	89.4	90.8	91.1	91.7	92.1	92.5	92.5	92.9	
GE 2000		52.2	61.8	76.8	83.8	84.9	89.2	91.1	91.3	92.9	93.3	93.8	94.3	94.6	94.6	95.1	
GE 1800		52.8	62.3	77.5	84.5	85.7	90.0	91.9	92.1	93.7	94.0	94.6	95.1	95.4	95.4	95.8	
GE 1500		53.2	62.9	78.3	85.4	86.6	91.0	92.9	93.1	94.7	95.1	95.6	96.1	96.4	96.4	96.9	
GE 1200		53.3	63.2	78.6	85.9	87.2	91.9	93.8	94.0	95.6	96.0	96.5	97.0	97.3	97.3	97.8	
GE 1000		53.3	63.2	78.6	85.9	87.2	92.1	94.0	94.3	95.8	96.2	96.7	97.2	97.5	97.5	98.0	
GE 900		53.3	63.2	78.6	86.2	87.4	92.4	94.3	94.5	96.1	96.4	97.0	97.4	97.8	97.8	98.2	
GE 800		53.3	63.2	78.6	86.3	87.5	92.5	94.4	94.6	96.2	96.5	97.1	97.5	97.9	97.9	98.3	
GE 700		53.3	63.2	78.6	86.4	87.6	92.6	94.5	94.7	96.3	96.6	97.2	97.6	98.0	98.0	98.4	
GE 600		53.3	63.2	78.6	86.5	87.7	92.8	94.7	94.9	96.5	96.9	97.4	97.9	98.2	98.2	98.7	
GE 500		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.1	97.6	98.1	98.4	98.4	98.9	
GE 400		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.1	97.6	98.1	98.4	98.4	98.9	
GE 300		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.2	97.9	98.3	98.8	98.8	99.2	
GE 200		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.0	99.0	99.4	
GE 100		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.0	99.1	99.8	
GE 0		53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.1	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	23.9	27.0	33.2	35.7	36.2	37.8	38.8	39.2	40.0	40.3	40.6	41.2	41.8	42.3	43.4	
GE 20000	27.1	30.5	37.2	39.9	40.5	42.2	43.3	43.8	44.7	45.0	45.3	46.0	46.7	47.3	46.5	
GE 18000	27.5	31.0	37.7	40.3	41.0	42.7	43.8	44.3	45.2	45.5	45.9	46.5	47.2	47.8	49.0	
GE 16000	27.5	31.0	37.7	40.4	41.0	42.7	43.9	44.3	45.2	45.5	45.9	46.5	47.2	47.8	49.0	
GE 14000	27.6	31.1	37.9	40.5	41.2	42.8	44.0	44.5	45.4	45.7	46.1	46.7	47.4	48.0	49.2	
GE 12000	28.1	31.7	38.6	41.2	41.9	43.6	44.8	45.3	46.2	46.5	46.9	47.5	48.2	48.8	50.1	
GE 10000	29.9	33.8	41.0	44.0	44.7	46.6	47.8	48.2	49.2	49.5	49.8	50.5	51.3	51.9	53.1	
GE 9000	30.4	34.5	41.6	44.8	45.4	47.4	48.6	49.1	50.1	50.4	50.7	51.4	52.2	52.8	54.0	
GE 8000	33.2	37.5	45.4	48.6	49.3	51.5	52.9	53.4	54.4	54.7	55.1	55.8	56.5	57.1	58.4	
GE 7000	34.8	39.2	47.4	50.7	51.4	53.7	55.1	55.6	56.7	57.0	57.4	58.1	58.8	59.4	60.7	
GE 6000	35.3	39.8	48.0	51.4	52.1	54.5	55.9	56.4	57.5	57.8	58.2	58.9	59.6	60.3	61.5	
GE 5000	37.2	41.8	50.4	54.0	54.7	57.3	58.7	59.3	60.3	60.7	61.0	61.7	62.5	63.1	64.4	
GE 4000	38.3	43.0	51.9	55.7	56.5	59.1	60.6	61.1	62.2	62.6	63.0	63.7	64.4	65.0	66.3	
GE 4000	42.2	47.3	57.2	61.3	62.3	65.1	66.7	67.3	68.5	68.9	69.3	70.1	70.8	71.5	72.8	
GE 3500	44.5	49.8	60.2	64.6	65.6	68.5	70.2	70.8	72.1	72.4	72.9	73.7	74.5	75.1	76.4	
GE 3000	48.0	53.5	64.9	70.0	71.0	74.3	76.1	76.6	78.1	78.5	79.0	79.8	80.6	81.3	82.6	
GE 2500	49.5	55.2	67.2	72.4	73.5	77.0	78.9	79.6	80.9	81.3	81.8	82.6	83.4	84.1	85.5	
GE 2000	51.4	57.4	70.3	75.7	77.0	80.9	83.0	83.8	85.2	85.6	86.1	86.9	87.7	88.4	89.7	
GE 1800	51.7	57.7	70.7	76.2	77.5	81.5	83.7	84.4	85.9	86.2	86.7	87.6	88.4	89.1	90.4	
GE 1500	52.6	58.7	71.9	77.6	79.1	83.3	85.6	86.3	87.8	88.2	88.7	89.5	90.4	91.0	92.4	
GE 1200	53.1	59.3	72.7	78.8	80.6	85.0	87.3	88.1	89.7	90.1	90.6	91.5	92.3	93.0	94.4	
GE 1000	53.2	59.4	73.1	79.3	81.1	85.7	88.2	89.0	90.7	91.0	91.6	92.5	93.3	94.0	95.3	
GE 900	53.2	59.4	73.1	79.4	81.3	85.9	88.4	89.2	90.9	91.3	91.9	92.7	93.6	94.2	95.6	
GE 800	53.2	59.5	73.2	79.6	81.5	86.1	88.6	89.4	91.2	91.6	92.1	93.0	93.9	94.5	95.9	
GE 700	53.2	59.5	73.4	79.9	81.8	86.5	89.0	89.8	91.7	92.0	92.6	93.5	94.3	95.0	96.4	
GE 600	53.2	59.5	73.4	80.0	81.9	86.6	89.2	90.0	91.8	92.2	92.8	93.7	94.6	95.3	96.6	
GE 500	53.3	59.6	73.5	80.1	82.1	86.8	89.4	90.4	92.2	92.6	93.2	94.2	95.1	95.7	97.1	
GE 400	53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.5	92.5	92.9	93.5	94.5	95.4	96.1	97.5	
GE 300	53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.5	92.5	92.9	93.6	94.6	95.6	96.6	98.3	
GE 200	53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.0	93.7	94.8	95.8	96.9	99.1	
GE 100	53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.0	93.7	94.8	96.0	97.2	99.7	
GE 0	53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.1	93.8	94.9	96.1	97.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7144

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.0	13.8	20.8	23.7	24.9	27.3	29.2	29.9	32.3	32.5	33.3	33.8	35.8	37.7	39.0
GE 20000		11.9	15.1	22.4	25.6	26.8	30.4	32.5	33.3	35.6	35.8	36.6	37.6	39.6	41.7	42.9
GE 18000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 16000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 14000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 12000		12.1	15.2	22.7	26.0	27.3	30.9	33.0	33.8	36.2	36.4	37.1	38.1	40.2	42.2	43.5
GE 10000		12.7	16.1	24.0	27.9	29.2	32.9	35.2	36.0	38.3	38.5	39.3	40.3	42.3	44.3	45.7
GE 9000		12.7	16.1	24.1	28.1	29.5	33.3	35.5	36.3	38.9	39.1	39.8	40.8	42.8	44.9	46.3
GE 8000		15.9	21.0	28.7	33.0	34.6	38.5	40.8	41.6	44.1	44.3	45.1	46.1	48.1	50.2	51.6
GE 7000		17.2	21.5	31.0	36.0	37.5	41.4	43.8	44.6	47.3	47.5	48.2	49.2	51.2	53.3	54.7
GE 6000		17.2	21.5	31.1	36.1	37.6	41.6	43.9	44.7	47.4	47.6	48.3	49.3	51.3	53.4	54.8
GE 5000		18.8	23.7	33.6	39.2	40.7	44.7	47.1	47.9	50.6	50.8	51.6	52.5	54.6	56.6	58.0
GE 4500		20.2	25.5	35.8	41.4	42.9	46.9	49.4	50.2	52.9	53.1	53.8	54.8	56.8	58.9	60.3
GE 4000		22.6	28.2	39.0	44.9	46.4	50.7	53.2	53.9	56.6	56.8	57.7	58.7	60.9	63.0	64.5
GE 3500		23.1	29.0	39.8	45.7	47.6	52.2	54.7	55.4	58.1	58.3	59.2	60.2	62.5	64.6	66.1
GE 3000		25.6	31.8	43.6	49.7	51.7	56.3	58.9	59.6	62.8	63.2	64.0	65.0	67.7	69.8	71.3
GE 2500		27.3	33.7	46.0	52.3	54.4	59.0	61.6	62.3	65.4	65.9	66.8	67.8	70.5	72.6	74.1
GE 2000		29.3	35.6	48.8	55.3	57.6	62.3	65.3	66.1	69.2	69.6	70.6	71.6	74.3	76.3	77.8
GE 1800		29.7	36.1	49.8	56.4	58.9	63.6	66.6	67.4	70.7	71.2	72.1	73.1	75.8	77.8	79.3
GE 1500		31.8	38.4	52.5	59.8	62.4	67.3	70.3	71.0	74.8	75.2	76.2	77.2	79.9	81.9	83.4
GE 1200		32.8	39.6	53.8	61.6	64.2	69.1	72.2	73.0	76.7	77.2	78.1	79.1	81.8	83.9	85.4
GE 1000		32.8	39.8	54.3	62.1	64.8	70.2	73.8	74.8	78.7	79.1	80.1	81.1	83.7	85.8	87.3
GE 900		32.8	39.8	54.6	62.4	65.1	70.5	74.2	75.1	79.1	79.5	80.7	81.7	84.4	86.4	87.9
GE 800		32.9	40.0	55.2	63.4	66.1	71.5	75.2	76.4	80.4	80.8	82.1	83.1	85.8	87.8	89.3
GE 700		32.9	40.0	55.2	63.4	66.1	71.5	75.3	76.7	80.7	81.2	82.5	83.4	86.1	88.2	89.7
GE 600		32.9	40.0	55.3	63.5	66.5	71.9	75.9	77.5	81.5	81.9	83.5	84.5	87.2	89.2	90.7
GE 500		33.0	40.2	55.5	63.7	66.7	72.1	76.1	77.7	82.0	82.5	84.1	85.0	87.7	89.9	91.4
GE 400		33.0	40.2	55.5	63.7	66.7	72.1	76.2	77.9	82.5	82.9	84.5	85.5	88.2	90.3	91.8
GE 300		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.4	85.0	86.0	88.9	91.1	92.8
GE 200		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.5	89.7	91.9	94.9
GE 100		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.8	90.1	92.6	96.8
GE 0		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.8	90.1	92.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		9.2	11.0	16.3	18.9	19.7	22.4	24.6	25.4	27.0	27.2	29.6	29.4	32.2	33.0	37.3	
GE 20000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8	
GE 18000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8	
GE 16000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8	
GE 14000		9.6	11.8	17.6	20.3	21.2	24.2	26.7	27.4	29.4	29.6	31.1	31.9	34.8	35.7	40.0	
GE 12000		10.2	12.5	18.3	21.0	21.8	24.8	27.3	28.1	30.0	30.2	31.7	32.6	35.5	36.3	40.6	
GE 10000		10.6	13.3	19.6	22.9	23.9	26.9	29.4	30.1	32.5	32.8	34.3	35.2	38.1	38.9	43.2	
GE 9000		10.6	13.3	19.6	22.9	23.9	26.9	29.4	30.1	32.6	32.9	34.4	35.3	38.2	39.0	43.3	
GE 8000		12.6	15.4	22.3	25.8	26.6	30.3	33.0	33.8	36.3	36.7	38.2	39.0	41.9	42.8	47.1	
GE 7000		13.1	16.0	23.4	27.4	28.5	32.3	35.1	35.8	38.4	38.7	40.2	41.1	44.0	44.8	49.1	
GE 6000		13.1	16.0	23.4	27.4	28.5	32.3	35.1	35.8	38.4	38.7	40.2	41.1	44.0	44.8	49.1	
GE 5000		14.4	17.4	24.9	29.6	30.6	34.8	37.6	38.4	41.0	41.4	42.9	43.8	46.8	47.6	51.9	
GE 4500		16.6	19.9	27.5	32.3	33.3	37.5	40.3	41.1	43.7	44.1	45.6	46.5	49.5	50.3	54.6	
GE 4000		18.8	22.5	31.3	37.1	38.2	43.0	45.8	46.7	49.4	49.8	51.3	52.3	55.5	56.3	60.6	
GE 3500		19.6	23.2	32.4	38.3	39.4	44.5	47.3	48.2	50.9	51.3	52.8	53.8	57.3	58.2	62.7	
GE 3000		22.0	26.5	36.3	43.0	44.3	50.4	53.2	54.1	57.2	57.6	59.1	60.1	63.7	64.6	69.1	
GE 2500		23.4	28.2	38.4	45.2	46.6	52.7	55.5	56.3	59.6	60.1	61.6	62.6	66.1	67.1	71.6	
GE 2000		25.5	30.5	41.1	48.1	49.7	56.0	59.0	60.2	63.4	64.0	65.5	66.5	70.0	71.0	75.5	
GE 1800		25.7	30.8	41.5	48.5	50.1	56.5	59.5	60.6	63.9	64.4	66.0	67.0	70.5	71.5	76.0	
GE 1500		26.9	31.9	43.8	51.2	52.8	59.4	62.5	63.9	67.3	67.8	69.6	70.8	74.3	75.3	79.8	
GE 1200		28.3	33.3	45.5	53.3	55.3	61.8	65.2	66.6	70.0	70.5	72.3	73.4	77.1	78.1	82.6	
GE 1000		28.7	34.1	46.2	54.1	56.1	62.8	66.5	67.8	71.4	72.0	73.9	75.1	78.7	79.7	84.2	
GE 900		28.8	34.2	46.6	54.7	56.8	63.4	67.1	68.6	72.2	72.8	74.6	75.8	79.5	80.4	84.9	
GE 800		29.0	34.6	47.6	55.7	57.7	64.4	68.2	69.7	73.2	73.9	75.7	76.9	80.5	81.5	86.0	
GE 700		29.0	34.6	47.6	55.8	57.8	64.6	68.7	70.3	74.0	74.6	76.5	77.7	81.4	82.4	86.9	
GE 600		29.0	34.6	47.6	55.9	58.3	65.1	69.2	71.0	74.7	75.4	77.2	78.5	82.2	83.1	87.6	
GE 500		29.0	34.6	47.7	56.2	58.7	65.5	69.8	71.5	75.7	76.3	78.3	79.6	83.2	84.2	88.7	
GE 400		29.0	34.6	47.7	56.2	58.7	65.5	69.8	72.0	76.2	77.0	79.0	80.3	84.0	84.9	89.6	
GE 300		29.0	34.6	47.7	56.2	58.7	65.5	69.8	72.0	77.1	77.8	79.9	81.2	85.3	86.2	91.4	
GE 200		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.5	78.3	80.6	82.0	87.0	88.2	94.8	
GE 100		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.7	78.5	81.0	82.4	87.7	89.2	97.1	
GE 0		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.7	78.5	81.0	82.4	87.7	89.5	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: OCT HOURS (LST): 0600-0800

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	1		5.4	6.5	9.7	12.4	13.4	14.5	15.8	16.0	16.9	17.2	18.0	19.4	21.0	22.3	26.3
GE 20000	1		6.3	7.5	11.2	14.3	15.6	16.9	18.6	18.8	20.3	20.6	21.5	22.9	25.2	26.5	30.8
GE 18000	1		6.3	7.6	11.4	14.5	15.6	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 16000	1		6.3	7.6	11.4	14.5	15.6	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 14000	1		6.3	7.6	11.4	14.5	15.6	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 12000	1		7.0	8.3	12.6	15.7	17.1	18.5	20.2	20.4	22.0	22.4	23.2	24.6	27.0	28.7	33.0
GE 10000	1		7.3	8.6	13.8	17.2	18.7	20.1	22.3	22.5	24.5	24.8	25.7	27.1	29.6	31.3	35.6
GE 9000	1		7.3	8.6	13.8	17.2	18.8	20.2	22.4	22.6	24.6	24.9	25.8	27.2	29.7	31.4	35.7
GE 8000	1		8.8	10.1	15.9	19.9	21.6	23.1	25.5	25.8	28.0	28.4	29.2	30.6	33.2	34.9	39.4
GE 7000	1		9.7	11.2	18.1	22.2	24.1	26.0	28.6	28.9	31.1	31.5	32.5	33.9	36.5	38.2	42.9
GE 6000	1		9.8	11.3	18.3	22.6	24.5	26.5	29.0	29.4	31.5	31.9	32.9	34.3	36.9	38.6	43.3
GE 5000	1		10.9	12.5	19.7	24.8	26.8	28.9	31.5	31.8	34.0	34.4	35.4	36.8	39.4	41.1	45.8
GE 4500	1		12.0	14.1	21.5	26.8	28.7	30.9	33.5	33.9	36.1	36.7	37.6	39.0	41.6	43.3	48.1
GE 4000	1		14.7	16.6	25.1	30.6	32.6	35.1	38.0	38.3	40.5	41.2	42.2	43.7	46.2	48.0	52.7
GE 3500	1		15.6	17.8	26.3	31.9	33.9	36.6	39.5	39.8	42.0	42.8	43.8	45.4	48.0	49.8	54.5
GE 3000	1		17.3	19.7	28.8	35.4	37.5	40.3	44.0	44.4	47.2	48.1	49.0	50.6	53.3	55.3	60.0
GE 2500	1		18.2	20.8	30.4	37.3	39.6	42.6	46.5	46.9	49.9	50.8	51.7	53.4	56.1	58.1	62.8
GE 2000	1		20.8	23.4	33.5	40.4	42.7	45.9	50.2	50.6	53.9	54.9	55.9	57.7	60.4	62.4	67.1
GE 1800	1		21.1	23.8	34.4	41.4	43.7	47.0	51.4	51.8	55.1	56.1	57.1	58.9	61.6	63.5	68.3
GE 1500	1		23.9	26.7	38.4	45.8	48.2	52.0	57.0	57.4	60.6	61.8	62.8	64.6	67.3	69.2	74.0
GE 1200	1		24.8	27.6	39.6	47.4	49.9	53.9	59.0	59.5	63.1	64.3	65.4	67.2	69.9	71.8	76.6
GE 1000	1		25.3	28.3	41.1	48.7	51.4	55.4	60.5	61.1	64.7	65.9	67.2	69.0	71.8	73.8	78.5
GE 900	1		25.4	28.4	41.7	49.6	52.4	56.3	61.5	62.0	65.7	66.9	68.2	70.0	72.8	74.7	79.5
GE 800	1		25.5	28.6	42.5	50.5	53.3	57.4	62.6	63.1	67.2	68.4	69.8	71.7	74.5	76.5	81.2
GE 700	1		25.5	28.7	42.7	51.2	54.6	59.5	64.9	65.5	69.7	70.9	72.3	74.2	77.0	78.9	83.7
GE 600	1		25.7	29.0	43.1	51.7	55.3	60.1	65.8	66.3	70.9	72.0	73.4	75.4	78.2	80.1	84.8
GE 500	1		25.7	29.0	43.2	51.9	55.6	60.4	66.2	66.8	71.5	73.0	74.6	76.7	79.5	81.5	86.7
GE 400	1		25.7	29.0	43.2	51.9	55.7	60.5	66.5	67.1	71.9	73.7	75.5	77.5	80.4	82.6	87.7
GE 300	1		25.7	29.0	43.3	52.3	56.0	60.9	66.8	67.6	72.6	74.4	76.3	78.4	81.5	83.7	89.6
GE 200	1		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.8	78.9	82.9	85.4	91.4
GE 100	1		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.8	79.0	83.3	86.0	98.8
GE 0	1		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.8	79.0	83.3	86.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GE 80	GE 60	GE 45	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.9	12.8	18.6	20.6	21.4	22.3	22.8	22.9	23.4	23.5	24.2	24.7	25.4	25.7	26.6
GE 20000		12.9	15.5	22.3	24.5	25.3	26.7	27.3	27.4	28.1	28.2	28.8	29.4	30.0	30.3	31.2
GE 18000		13.4	16.1	23.0	25.3	26.2	27.6	28.3	28.4	29.0	29.1	29.8	30.3	31.0	31.3	32.2
GE 16000		13.4	16.1	23.0	25.3	26.2	27.6	28.3	28.4	29.0	29.1	29.8	30.3	31.0	31.3	32.2
GE 14000		13.4	16.1	23.0	25.4	26.3	27.7	28.4	28.5	29.1	29.2	29.9	30.4	31.1	31.4	32.3
GE 12000		14.4	17.1	24.2	26.6	27.7	29.1	29.8	29.9	30.5	30.6	31.3	31.8	32.5	32.8	33.7
GE 10000		15.5	18.3	26.5	28.9	30.1	31.6	32.4	32.6	33.2	33.3	34.0	34.5	35.2	35.5	36.3
GE 9000		15.6	18.4	26.8	29.4	30.5	32.2	32.9	33.1	33.8	33.9	34.5	35.1	35.7	36.0	36.9
GE 8000		17.7	20.9	30.2	32.9	34.2	36.0	36.8	37.0	37.6	37.7	38.4	38.9	39.6	39.9	40.8
GE 7000		18.6	21.8	31.8	34.8	36.2	38.5	39.2	39.5	40.1	40.2	40.9	41.4	42.2	42.5	43.3
GE 6000		18.6	21.8	31.8	34.8	36.2	38.5	39.2	39.5	40.1	40.2	40.9	41.4	42.2	42.5	43.3
GE 5000		19.7	22.9	33.3	36.5	37.8	40.2	41.1	41.3	42.0	42.2	42.8	43.3	44.1	44.4	45.3
GE 4500		19.9	23.2	33.8	36.9	38.3	40.8	41.6	41.8	42.6	42.9	43.5	44.1	44.8	45.2	46.0
GE 4000		22.3	25.6	37.0	40.2	41.6	44.3	45.6	45.9	46.7	47.0	47.6	48.2	48.9	49.2	50.1
GE 3500		23.1	26.6	38.2	41.5	43.0	45.9	47.2	47.5	48.7	49.0	49.7	50.2	51.0	51.3	52.2
GE 3000		27.8	31.3	44.1	48.6	50.2	53.7	55.1	55.5	56.9	57.3	58.0	58.5	59.2	59.6	60.8
GE 2500		29.9	33.4	46.9	51.6	53.2	57.0	58.4	58.8	60.2	60.6	61.3	61.8	62.6	62.9	64.1
GE 2000		33.5	37.6	51.4	56.5	58.7	62.5	64.7	65.3	66.9	67.4	68.2	68.7	69.5	69.8	71.0
GE 1800		33.8	37.8	51.7	57.1	59.4	63.1	65.4	65.9	67.5	68.1	68.8	69.4	70.1	70.4	71.6
GE 1500		36.0	40.2	55.1	60.8	63.0	66.9	69.5	70.0	71.6	72.2	72.9	73.4	74.2	74.5	75.7
GE 1200		37.0	42.0	58.1	64.2	66.6	71.0	73.7	74.2	75.8	76.3	77.1	77.6	78.4	78.7	79.9
GE 1000		38.1	43.2	59.6	66.1	68.7	73.1	75.9	76.5	78.1	78.6	79.4	79.9	80.6	81.0	82.2
GE 900		38.1	43.2	60.5	67.2	69.8	74.5	77.3	77.8	79.5	80.3	81.1	81.6	82.4	82.7	83.9
GE 800		38.3	43.4	60.7	67.5	70.2	75.1	78.0	78.5	80.5	81.5	82.3	82.8	83.5	83.9	85.1
GE 700		38.3	43.5	61.4	68.3	71.5	76.8	80.1	80.6	82.8	83.8	84.5	85.2	85.9	86.2	87.4
GE 600		38.3	43.5	61.7	68.9	72.3	77.7	81.3	81.8	84.0	84.9	85.7	86.3	87.1	87.4	88.6
GE 500		38.3	43.5	61.7	68.9	72.7	78.3	82.4	82.9	85.4	86.3	87.2	88.1	89.1	89.5	90.6
GE 400		38.3	43.5	61.7	68.9	72.9	78.6	82.8	83.7	86.6	88.0	89.0	89.9	91.3	91.6	92.8
GE 300		38.3	43.5	61.8	69.0	73.0	78.8	83.0	83.9	87.1	88.6	89.7	90.6	92.7	93.3	94.7
GE 200		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	93.9	95.1	97.3
GE 100		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	94.1	95.6	99.0
GE 0		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	94.1	95.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOUCL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: OCT

POURS(LEST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	21.9	24.3	29.4	30.5	36.8	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
GE 20000	26.4	29.0	34.9	36.5	36.8	37.3	37.3	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 18000	27.5	30.1	36.0	37.5	37.8	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 16000	27.5	30.1	36.0	37.5	37.8	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 14000	27.6	30.2	36.1	37.6	38.0	38.5	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 12000	28.2	30.8	36.8	38.5	38.8	39.4	39.4	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
GE 10000	29.9	32.5	38.7	40.5	40.9	41.7	41.7	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 9000	30.3	32.9	39.2	41.2	41.5	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 8000	32.8	35.5	42.0	44.2	44.5	45.6	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 7000	34.9	37.6	44.7	47.3	47.6	48.7	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 6000	35.2	37.8	44.9	47.5	47.8	48.9	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
GE 5000	37.1	39.9	47.0	49.8	50.1	51.2	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 4500	38.1	40.9	48.0	50.8	51.1	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 4000	42.4	45.4	53.5	56.8	57.2	58.3	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 3500	46.2	49.4	58.0	61.2	61.6	62.8	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 3000	52.7	55.9	65.9	69.4	69.8	71.2	71.4	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7
GE 2500	55.3	58.5	69.2	72.7	73.1	74.5	74.7	74.7	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1
GE 2000	58.6	62.3	73.5	77.5	78.0	79.4	79.6	79.8	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1
GE 1800	59.6	63.7	75.4	79.6	80.1	81.6	81.8	82.0	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4
GE 1500	62.4	66.8	79.1	83.5	84.1	85.7	86.0	86.3	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7
GE 1200	62.9	67.4	81.0	86.0	86.6	88.5	89.5	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 1000	63.2	68.0	81.7	87.4	88.0	90.3	91.4	91.7	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3
GE 900	63.2	68.0	82.2	87.8	88.4	90.8	91.8	92.2	92.4	92.4	92.7	92.7	92.7	92.7	92.7	92.7
GE 800	63.2	68.0	82.4	88.6	89.1	92.0	93.3	94.0	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5
GE 700	63.2	68.0	82.7	88.9	89.5	92.7	94.1	94.7	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	63.2	68.0	82.9	89.1	89.7	93.2	95.3	95.9	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
GE 500	63.2	68.0	82.9	89.2	89.8	93.7	95.9	96.6	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8
GE 400	63.2	68.0	82.9	89.5	90.1	94.2	96.6	97.2	98.2	98.4	98.7	98.8	98.8	98.8	98.8	98.8
GE 300	63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.4	99.5	99.6	99.6	99.6	99.6
GE 200	63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	100.0	100.0	100.0	100.0
GE 100	63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	100.0	100.0	100.0	100.0
GE 0	63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	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 FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 100	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		30.0	32.6	36.6	38.7	36.7	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 20000		35.1	38.1	43.1	45.7	45.8	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 18000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 16000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 14000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 12000		36.6	39.7	44.8	47.4	47.5	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 10000		37.0	40.1	45.8	48.5	48.6	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 9000		38.1	41.2	46.9	49.6	49.7	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 8000		42.2	45.7	51.5	54.2	54.3	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 7000		44.3	47.8	53.9	56.7	56.8	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
GE 6000		44.7	48.3	54.4	57.2	57.3	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 5000		46.6	50.3	56.6	59.6	59.7	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 4500		48.0	51.7	58.3	61.3	61.4	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 4000		52.7	56.9	63.9	66.9	67.0	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 3500		56.5	60.9	68.1	71.2	71.4	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 3000		62.0	67.1	75.7	79.0	79.4	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 2500		63.5	68.6	77.5	81.1	81.7	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 2000		65.9	71.4	80.6	85.1	85.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1800		66.3	71.9	81.4	85.8	86.8	87.7	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1500		68.1	74.2	83.8	88.5	89.7	90.8	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3
GE 1200		68.6	75.3	85.7	90.6	91.9	93.3	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0
GE 1000		68.6	75.3	85.9	91.0	92.3	93.8	94.3	94.4	94.5	94.6	94.6	94.6	94.6	94.6
GE 900		68.6	75.3	85.9	91.0	92.3	93.9	94.5	94.6	94.7	94.8	94.8	94.8	94.8	94.8
GE 800		68.6	75.3	86.1	91.4	92.9	94.9	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3
GE 700		68.6	75.3	86.7	91.9	93.4	95.7	96.8	97.0	97.2	97.3	97.3	97.3	97.3	97.3
GE 600		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.4	98.5	98.5	98.5	98.5	98.5
GE 500		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.4	98.5	98.5	98.5	98.5	98.5
GE 400		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	98.8	98.9	98.9	98.9	98.9
GE 300		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.4	99.4
GE 200		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.7	99.7
GE 100		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.7	99.8
GE 0		68.7	75.4	86.8	92.4	93.9	96.6	98.0	98.2	98.7	99.2	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(15): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3
NO CEIL		21.6	25.8	33.9	37.0	37.4	38.3	39.9	39.9	40.4	40.4	40.6	40.6	40.8	41.3	41.6
GE 2000		24.5	29.0	37.7	41.4	41.6	43.4	45.3	45.3	45.8	45.8	46.0	46.0	46.1	46.7	47.0
GE 1800		24.5	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 1600		24.9	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 1400		24.9	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 1200		25.6	30.8	39.8	43.7	44.1	45.7	47.5	47.5	48.2	48.2	48.4	48.4	48.5	49.0	49.4
GE 1000		26.3	31.5	40.9	44.8	45.4	47.0	48.8	48.8	49.6	49.6	49.8	49.8	49.9	50.4	50.8
GE 900		26.6	31.7	41.4	45.5	46.0	47.6	49.5	49.5	50.2	50.2	50.4	50.4	50.5	51.1	51.4
GE 800		29.8	36.0	46.5	50.6	51.2	52.8	54.6	54.6	55.4	55.4	55.6	55.6	55.7	56.2	56.6
GE 700		31.9	38.2	48.6	52.8	53.3	55.4	57.2	57.2	58.0	58.0	58.2	58.2	58.4	58.9	59.2
GE 600		32.4	38.6	49.1	53.3	53.9	55.9	57.7	57.7	58.5	58.5	58.7	58.7	58.9	59.5	59.8
GE 500		34.3	40.6	52.0	56.5	57.0	59.2	61.1	61.1	61.8	61.8	62.0	62.0	62.3	62.8	63.1
GE 450		34.8	41.6	53.8	58.2	58.7	61.1	63.1	63.1	63.9	63.9	64.1	64.1	64.3	64.8	65.2
GE 400		38.9	46.0	59.2	63.7	64.5	66.9	69.0	69.0	69.8	69.8	70.0	70.0	70.2	70.8	71.1
GE 350		41.8	49.0	62.9	67.6	68.5	70.9	73.1	73.1	73.9	73.9	74.1	74.1	74.3	74.8	75.2
GE 300		45.2	52.8	68.0	73.0	73.9	76.2	78.5	78.5	79.2	79.2	79.5	79.5	79.7	80.2	80.5
GE 250		46.7	54.3	69.6	75.4	76.2	78.7	81.1	81.1	81.9	81.9	82.2	82.2	82.4	82.9	83.2
GE 200		48.3	56.1	72.5	78.7	79.7	82.5	84.8	84.8	86.0	86.0	86.2	86.2	86.5	87.0	87.3
GE 180		48.4	56.6	72.9	79.1	80.1	83.1	85.6	85.6	86.8	86.8	87.0	87.0	87.2	87.7	88.1
GE 150		49.7	57.8	74.7	81.3	82.3	85.4	88.2	88.2	89.6	89.6	89.8	89.8	90.0	90.5	90.9
GE 120		49.8	58.3	75.9	82.6	83.6	87.4	90.5	90.6	92.0	92.0	92.3	92.3	92.5	93.0	93.3
GE 100		49.8	58.3	76.2	82.9	84.1	87.7	91.0	91.4	93.0	93.0	93.2	93.2	93.4	94.0	94.3
GE 90		49.8	58.3	76.3	83.0	84.2	88.2	91.6	92.0	93.7	93.7	93.9	93.9	94.1	94.6	94.9
GE 80		49.8	58.3	76.5	83.1	84.6	88.6	92.2	92.7	94.3	94.3	94.5	94.5	94.7	95.3	95.6
GE 70		49.8	58.3	76.8	83.4	84.9	89.1	93.1	93.8	95.6	95.6	95.9	95.9	96.1	96.7	97.0
GE 60		49.8	58.3	76.8	83.4	85.2	89.7	94.0	94.6	96.6	96.6	96.9	96.9	97.1	97.6	98.0
GE 50		49.8	58.3	76.8	83.4	85.3	90.0	94.4	95.1	97.0	97.0	97.3	97.3	97.5	98.1	98.4
GE 40		49.8	58.3	76.8	83.4	85.3	90.0	94.5	95.2	97.1	97.1	97.4	97.4	97.6	98.2	98.5
GE 30		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	97.7	98.3	98.6
GE 20		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	99.4
GE 10		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	99.6
GE 0		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		17.0	20.9	30.0	33.8	35.2	37.7	40.1	40.4	41.5	41.6	41.6	42.3	42.9	43.8	45.2
GE 20000		18.1	22.0	32.0	35.9	37.4	40.4	42.8	43.2	44.3	44.4	44.4	45.1	45.7	46.7	46.1
GE 18000		18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	46.4
GE 16000		18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	46.4
GE 14000		18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	46.4
GE 12000		18.8	22.8	33.2	37.3	36.8	41.8	44.2	44.6	46.0	46.1	46.1	46.8	47.4	48.4	49.8
GE 10000		19.8	23.8	34.4	38.7	40.3	43.4	45.9	46.3	47.7	47.8	47.8	48.5	49.1	50.1	51.5
GE 9000		20.2	24.2	35.1	39.6	41.2	44.3	46.8	47.2	48.6	48.7	48.7	49.4	50.0	51.0	52.4
GE 8000		23.4	28.6	40.4	45.6	47.2	50.6	53.3	53.8	55.3	55.4	55.4	56.0	56.7	57.6	59.0
GE 7000		25.3	30.6	42.8	48.2	49.8	53.2	55.9	56.3	57.8	58.0	58.0	58.6	59.2	60.2	61.6
GE 6000		25.7	31.2	43.3	48.7	50.3	53.8	56.5	56.9	58.4	58.5	58.5	59.1	59.8	60.8	62.2
GE 5000		27.3	33.0	45.7	51.3	53.0	56.5	59.1	59.6	61.1	61.2	61.2	61.8	62.5	63.4	64.8
GE 4500		29.2	35.4	48.4	54.0	55.7	59.2	61.9	62.4	63.9	64.0	64.3	64.9	65.6	66.7	68.1
GE 4000		31.4	37.7	51.3	57.4	59.2	63.0	65.8	66.3	67.8	68.0	68.3	68.9	69.6	70.6	72.0
GE 3500		33.5	40.0	53.8	60.0	61.8	65.7	68.5	69.0	70.5	70.6	71.0	71.6	72.3	73.3	74.7
GE 3000		35.1	41.8	55.9	62.9	65.1	69.2	72.0	72.6	74.1	74.3	74.6	75.3	76.0	77.1	78.5
GE 2500		36.6	43.9	58.2	65.6	67.7	72.0	74.8	75.4	76.9	77.1	77.4	78.1	78.8	79.9	81.3
GE 2000		38.8	46.1	61.3	69.0	71.2	75.6	78.5	79.0	80.6	80.9	81.2	81.8	82.6	83.7	85.1
GE 1800		39.0	46.3	61.8	69.8	72.0	76.5	79.4	79.9	81.5	81.7	82.0	82.7	83.4	84.5	85.9
GE 1500		39.9	47.2	63.5	71.9	74.2	78.7	82.0	82.6	84.2	84.4	84.7	85.4	86.1	87.2	88.6
GE 1200		40.1	47.4	64.1	72.8	75.4	79.9	83.7	84.3	86.0	86.2	86.7	87.3	88.1	89.1	90.5
GE 1000		40.2	47.5	64.7	73.4	76.0	80.8	84.6	85.5	87.2	87.5	88.0	88.6	89.4	90.4	91.8
GE 900		40.2	47.5	64.7	73.4	76.0	80.8	84.6	85.5	87.2	87.5	88.0	88.6	89.4	90.4	91.8
GE 800		40.2	47.5	64.7	73.5	76.1	80.9	84.9	85.9	87.6	88.0	88.6	89.2	90.0	91.1	92.5
GE 700		40.2	47.5	65.3	74.1	76.7	81.4	85.8	86.8	88.5	88.8	89.5	90.1	90.9	91.9	93.3
GE 600		40.2	47.5	65.4	74.4	77.2	82.2	86.8	87.7	89.6	89.9	90.5	91.4	92.2	93.2	94.6
GE 500		40.2	47.5	65.4	74.4	77.3	82.3	87.2	88.3	90.1	90.4	91.1	91.9	92.8	93.9	95.3
GE 400		40.2	47.5	65.4	74.4	77.3	82.3	87.2	88.3	90.1	90.5	91.2	92.0	93.0	94.1	95.6
GE 300		40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.5	91.1	91.7	92.6	93.5	94.6	96.1
GE 200		40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.8	93.9	95.4	97.7
GE 100		40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.9	94.0	95.5	98.2
GE 0		40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.9	94.0	95.5	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: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	15.9	18.4	24.4	27.0	27.7	29.1	30.3	30.6	31.5	31.6	32.1	32.6	33.5	34.3	35.6	
GE 20000	18.1	21.0	27.7	30.5	31.3	33.1	34.6	34.8	35.9	36.0	36.5	37.0	38.1	38.8	40.4	
GE 18000	18.5	21.5	28.2	31.1	32.0	33.8	35.2	35.5	36.5	36.6	37.1	37.7	38.8	39.6	41.1	
GE 16000	18.5	21.5	28.2	31.1	32.0	33.8	35.2	35.5	36.5	36.6	37.1	37.7	38.8	39.6	41.1	
GE 14000	18.5	21.5	28.2	31.2	32.0	33.8	35.3	35.5	36.6	36.7	37.2	37.7	38.8	39.6	41.2	
GE 12000	19.1	22.1	29.0	32.0	32.9	34.7	36.2	36.4	37.5	37.7	38.2	38.7	39.8	40.6	42.2	
GE 10000	19.9	23.0	30.4	33.7	34.6	36.6	38.1	38.4	39.6	39.7	40.2	40.8	41.9	42.7	44.2	
GE 9000	20.2	23.3	30.9	34.2	35.1	37.1	38.6	38.9	40.1	40.3	40.8	41.3	42.4	43.2	44.8	
GE 8000	22.9	26.5	34.7	38.3	39.3	41.4	43.0	43.4	44.6	44.8	45.3	45.8	47.0	47.8	49.3	
GE 7000	24.4	28.1	36.8	40.7	41.7	44.1	45.7	46.0	47.3	47.5	48.0	48.6	49.7	50.5	52.1	
GE 6000	24.6	28.3	37.1	41.0	42.0	44.4	46.0	46.3	47.6	47.8	48.3	48.9	50.0	50.8	52.4	
GE 5000	26.1	30.0	39.1	43.4	44.5	46.9	48.6	48.9	50.2	50.4	50.9	51.5	52.6	53.4	55.1	
GE 4500	27.4	31.5	40.9	45.2	46.3	48.8	50.5	50.8	52.2	52.4	52.9	53.5	54.6	55.5	57.1	
GE 4000	30.5	34.9	45.0	49.7	50.8	53.6	55.4	55.8	57.1	57.3	57.9	58.5	59.7	60.5	62.2	
GE 3500	32.4	37.0	47.4	52.2	53.4	56.3	58.2	58.6	60.0	60.2	60.6	61.4	62.6	63.4	65.1	
GE 3000	36.0	40.9	52.3	57.6	59.0	62.2	64.2	64.6	66.2	66.5	67.0	67.6	69.0	69.8	71.5	
GE 2500	37.6	42.7	54.5	60.1	61.6	64.9	66.9	67.3	69.0	69.3	69.9	70.5	71.8	72.7	74.4	
GE 2000	40.1	45.4	57.4	63.8	65.4	68.9	71.2	71.6	73.4	73.7	74.4	75.0	76.3	77.2	78.9	
GE 1800	40.4	45.9	58.6	64.7	66.4	69.9	72.2	72.7	74.5	74.8	75.5	76.1	77.4	78.3	80.0	
GE 1500	42.3	47.9	61.4	67.9	69.6	73.3	75.8	76.3	78.2	78.6	79.2	79.9	81.2	82.1	83.8	
GE 1200	43.0	48.9	63.0	69.8	71.7	75.6	78.4	79.0	81.0	81.3	82.0	82.6	84.0	84.8	86.5	
GE 1000	43.3	49.3	63.7	70.7	72.7	76.8	79.8	80.4	82.4	82.8	83.6	84.2	85.6	86.4	88.1	
GE 900	43.4	49.3	64.1	71.2	73.1	77.3	80.3	81.0	83.0	83.5	84.2	84.9	86.2	87.1	88.8	
GE 800	43.4	49.5	64.5	71.7	73.8	78.1	81.3	82.1	84.2	84.7	85.5	86.1	87.5	88.4	90.1	
GE 700	43.4	49.5	64.8	72.1	74.3	78.9	82.4	83.2	85.5	85.9	86.8	87.4	88.8	89.7	91.4	
GE 600	43.5	49.5	64.9	72.4	74.8	79.5	83.3	84.1	86.5	87.0	87.8	88.5	89.9	90.8	92.5	
GE 500	43.5	49.5	65.0	72.5	75.0	79.8	83.7	84.6	87.2	87.7	88.6	89.4	90.8	91.7	93.4	
GE 400	43.5	49.5	65.0	72.6	75.1	80.0	83.9	84.9	87.6	88.3	89.3	90.1	91.5	92.4	94.2	
GE 300	43.5	49.5	65.0	72.6	75.1	80.1	84.1	85.2	88.1	88.8	89.9	90.6	92.3	93.3	95.3	
GE 200	43.5	49.5	65.0	72.6	75.1	80.1	84.1	85.2	88.2	89.0	90.1	91.0	93.1	94.3	97.3	
GE 100	43.5	49.5	65.0	72.6	75.1	80.1	84.1	85.2	88.2	89.0	90.2	91.1	93.4	94.7	98.8	
GE 0	43.5	49.6	65.0	72.6	75.1	80.1	84.1	85.3	88.2	89.0	90.2	91.1	93.4	94.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.6	11.5	17.3	18.6	19.4	20.3	22.2	22.6	23.3	23.5	23.7	24.3	26.4	27.2	29.3	
GE 20000	11.5	12.4	18.5	20.4	21.3	22.2	24.3	24.6	25.3	25.5	25.7	26.0	26.3	28.6	29.3	31.5
GE 18000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 16000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 14000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 12000	11.6	12.5	18.7	20.7	21.6	22.7	24.7	25.1	25.7	26.0	26.2	26.7	29.0	29.8	31.9	
GE 10000	12.2	13.5	20.2	22.6	23.5	24.6	26.6	27.0	27.7	27.9	28.1	28.7	30.9	31.7	33.9	
GE 9000	12.2	13.5	20.2	22.6	23.5	24.6	26.6	27.0	27.7	27.9	28.1	28.7	30.9	31.7	33.9	
GE 8000	12.4	14.3	21.3	24.4	25.3	26.6	29.0	29.3	30.0	30.2	30.6	31.3	33.5	34.3	36.5	
GE 7000	13.8	15.7	23.1	26.5	27.4	29.0	31.4	31.7	32.5	32.7	33.1	33.7	36.0	36.8	38.9	
GE 6000	14.1	16.0	23.5	26.9	27.8	29.3	31.7	32.1	32.8	33.1	33.4	34.1	36.3	37.1	39.3	
GE 5000	15.6	17.7	25.3	28.7	29.6	31.2	33.9	34.2	35.0	35.2	35.6	36.2	38.5	39.3	41.4	
GE 4500	16.9	18.8	27.2	30.6	31.5	33.5	36.5	36.8	37.9	38.1	38.5	39.2	41.5	42.3	44.5	
GE 4000	19.0	21.0	30.1	33.5	34.4	36.5	39.6	40.0	41.1	41.4	41.8	42.4	44.8	45.6	47.7	
GE 3500	20.2	22.3	31.7	35.3	36.5	38.8	42.0	42.3	43.7	44.0	44.4	45.0	47.6	48.4	50.6	
GE 3000	22.7	25.2	35.1	39.2	40.4	42.9	46.5	46.8	48.5	49.0	49.3	50.2	52.9	53.7	55.9	
GE 2500	23.6	26.5	37.2	41.3	42.6	45.1	48.8	49.1	50.9	51.4	51.8	52.7	55.4	56.4	58.6	
GE 2000	24.9	27.9	39.1	43.3	44.6	47.3	51.1	51.5	53.4	53.8	54.3	55.2	57.9	58.9	61.1	
GE 1800	25.2	28.2	39.6	44.0	45.3	48.0	52.0	52.5	54.4	54.9	55.3	56.2	58.9	59.9	62.1	
GE 1500	26.4	29.8	42.4	47.0	48.3	51.4	56.2	56.7	58.7	59.1	59.6	60.5	63.2	64.2	66.4	
GE 1200	26.9	30.7	44.5	49.3	51.1	54.7	60.8	61.6	63.8	64.2	64.9	65.8	68.6	69.6	71.8	
GE 1000	27.2	31.0	46.4	51.7	53.6	57.8	64.4	65.3	67.6	68.1	68.7	69.6	72.5	73.5	75.6	
GE 900	27.2	31.0	46.5	52.5	54.4	58.8	66.1	67.0	69.5	70.1	70.8	71.7	74.5	75.7	77.9	
GE 800	27.7	31.5	47.4	53.8	55.8	60.9	68.3	69.3	71.6	72.3	73.0	73.9	76.7	78.0	80.1	
GE 700	27.9	31.7	48.1	54.6	56.7	62.2	69.9	70.9	73.8	74.4	75.1	76.0	78.8	80.0	82.2	
GE 600	28.0	31.8	49.0	55.5	56.0	63.9	71.6	72.8	76.0	76.5	77.2	78.1	80.9	82.2	84.3	
GE 500	28.0	31.9	49.4	56.0	58.5	65.3	73.4	74.6	78.0	78.7	79.3	80.2	83.5	84.8	86.9	
GE 400	28.1	32.1	49.5	56.1	58.6	65.5	73.9	75.6	79.9	80.6	81.3	82.2	85.6	86.8	88.9	
GE 300	28.3	32.3	49.8	56.3	58.9	65.9	74.6	76.4	81.4	82.1	83.1	84.1	87.9	89.2	91.6	
GE 200	28.3	32.3	49.8	56.3	58.9	66.3	75.1	76.9	81.8	82.8	84.2	85.7	90.2	91.5	93.7	
GE 100	28.3	32.3	49.8	56.3	58.9	66.3	75.1	77.0	82.1	83.1	84.5	86.2	92.0	94.0	98.9	
GE 0	28.3	32.3	49.8	56.3	58.9	66.3	75.1	77.0	82.1	83.1	84.5	86.2	92.0	94.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 886

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86

MONTH: NOV

HOURS: 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4
NO CEIL	10.6	11.8	15.0	16.2	17.1	18.2	19.3	19.8	20.2	20.2	21.1	21.2	23.1	23.2	25.2
GE 20000	11.4	13.0	17.2	17.9	18.8	20.0	21.1	21.6	22.0	22.0	23.3	23.4	25.4	25.6	27.7
GE 18000	11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 16000	11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 14000	11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 12000	11.4	13.0	17.6	18.5	19.4	20.7	21.8	22.3	22.7	22.7	24.0	24.1	26.1	26.3	28.4
GE 10000	11.9	13.6	18.5	19.8	20.7	21.9	23.1	23.5	24.0	24.0	25.2	25.3	27.3	27.6	29.6
GE 9000	12.0	13.7	18.8	20.0	20.9	22.4	23.5	24.0	24.4	24.4	25.6	25.8	27.8	28.0	30.1
GE 8000	12.5	14.2	20.0	21.4	22.3	24.1	25.5	26.1	26.7	26.7	27.9	28.0	30.2	30.4	32.4
GE 7000	12.9	14.7	21.5	23.2	24.1	26.0	27.5	28.1	28.7	28.7	30.1	30.2	32.3	32.5	34.6
GE 6000	13.0	14.8	21.6	23.3	24.2	26.2	27.7	28.4	28.9	28.9	30.3	30.4	32.5	32.8	34.8
GE 5000	14.1	15.9	22.9	24.6	25.5	27.7	29.6	30.4	31.0	31.0	32.3	32.4	34.6	34.8	36.8
GE 4500	14.2	16.0	24.4	26.1	27.1	29.4	31.4	32.2	32.9	32.9	34.2	34.4	36.5	36.7	38.8
GE 4000	16.5	18.5	27.8	29.5	30.5	32.9	35.0	35.8	36.5	36.6	38.1	38.2	40.3	40.6	42.6
GE 3500	17.7	19.8	29.2	30.8	32.0	34.4	36.5	37.3	38.1	38.2	39.7	39.8	41.9	42.1	44.2
GE 3000	19.9	22.3	31.9	33.6	35.0	38.0	41.0	42.1	42.9	43.3	44.7	44.9	47.0	47.2	49.5
GE 2500	21.1	23.7	33.7	35.6	37.1	40.3	43.4	44.5	45.4	45.8	47.2	47.3	49.5	49.7	52.0
GE 2000	23.2	26.3	37.2	39.4	41.1	44.4	47.7	49.0	50.5	50.8	52.3	52.4	54.6	54.8	57.1
GE 1800	23.4	26.6	37.6	39.9	41.6	44.9	48.4	49.7	51.3	51.6	53.1	53.2	55.4	55.6	57.9
GE 1500	24.3	27.7	39.7	42.3	44.1	47.8	51.6	53.0	54.9	55.3	56.7	56.9	59.1	59.3	61.6
GE 1200	25.3	29.2	42.6	45.6	48.0	52.5	57.7	59.3	61.7	62.0	63.5	63.7	66.0	66.2	68.5
GE 1100	25.6	29.6	44.6	48.5	50.8	56.0	61.8	63.4	65.9	66.2	67.7	67.9	70.2	70.4	72.7
GE 900	25.6	29.7	45.1	49.4	51.8	57.3	63.4	65.1	68.0	68.4	69.8	70.1	72.3	72.5	74.8
GE 800	25.6	29.7	45.4	50.1	52.5	58.4	65.2	66.9	69.8	70.2	71.6	71.9	74.1	74.5	76.7
GE 700	25.8	30.1	46.2	50.8	53.3	59.3	66.4	68.2	71.3	71.6	73.1	73.3	75.9	76.3	78.5
GE 600	25.8	30.1	46.4	51.3	54.0	60.5	68.1	70.1	73.3	73.7	75.1	75.4	78.0	78.3	80.6
GE 500	25.9	30.2	46.9	52.0	54.8	62.1	71.0	73.1	76.5	76.8	78.3	78.5	81.1	81.5	83.7
GE 400	26.3	30.6	47.8	52.9	55.8	64.0	73.2	75.5	79.8	80.1	81.8	82.3	84.9	85.2	87.6
GE 300	26.3	30.6	47.8	52.9	55.8	64.1	73.9	76.5	80.8	81.4	83.4	84.0	87.0	87.7	90.3
GE 200	26.3	30.6	47.8	52.9	55.8	64.3	74.1	76.7	81.4	81.9	84.2	85.1	88.5	89.6	93.6
GE 100	26.3	30.6	47.8	52.9	55.8	64.4	74.2	76.8	81.5	82.3	84.6	85.5	90.3	92.4	96.2
GE	26.3	30.7	47.9	53.0	55.9	64.5	74.4	76.9	81.6	82.4	84.7	85.6	90.5	92.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH
USAFETAG
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 100	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	
NO CEIL		7.4	8.4	10.8	11.6	12.5	12.8	13.5	13.7	14.4	14.6	15.3	15.7	16.7	17.1	19.0	
GE 20000		7.8	9.2	12.0	13.4	14.4	14.9	15.5	15.8	16.4	16.8	17.7	18.0	19.1	19.6	21.5	
GE 18000		8.2	9.7	12.5	13.9	14.9	15.5	16.2	16.6	17.2	17.6	18.5	18.8	19.9	20.4	22.3	
GE 16000		8.2	9.7	12.5	13.9	14.9	15.5	16.2	16.6	17.2	17.6	18.5	18.8	19.9	20.4	22.3	
GE 14000		8.4	10.0	12.8	14.2	15.2	15.9	16.6	17.1	17.8	18.1	19.0	19.4	20.5	20.9	22.9	
GE 12000		8.4	10.0	13.0	14.4	15.4	16.2	16.9	17.5	18.1	18.5	19.4	19.7	20.8	21.3	23.2	
GE 10000		9.3	10.9	14.3	16.1	17.1	17.9	18.6	19.1	19.8	20.2	21.1	21.4	22.5	23.0	24.9	
GE 9000		9.5	11.0	14.4	16.2	17.2	18.0	18.7	19.3	19.9	20.3	21.2	21.5	22.6	23.1	25.0	
GE 8000		10.5	12.3	15.8	18.2	19.4	20.4	21.1	21.6	22.4	22.7	23.6	24.2	25.5	25.9	27.8	
GE 7000		11.1	13.0	17.2	19.8	21.2	22.3	23.0	23.5	24.3	24.8	25.7	26.2	27.5	27.9	30.1	
GE 6000		11.3	13.1	17.3	20.0	21.4	22.5	23.2	23.8	24.5	25.0	25.9	26.5	27.7	28.2	30.3	
GE 5000		12.5	14.5	19.1	22.0	23.3	24.5	25.5	26.1	26.9	27.4	28.3	28.8	30.1	30.5	32.7	
GE 4500		13.3	15.3	20.6	23.5	25.0	26.4	27.4	28.0	29.1	29.5	30.4	31.0	32.2	32.7	34.6	
GE 4000		14.6	17.0	23.1	26.2	27.8	29.3	30.6	31.3	32.3	32.8	33.7	34.2	35.7	36.1	38.3	
GE 3500		15.3	17.7	24.3	27.5	29.1	30.5	31.9	32.5	33.6	34.0	34.9	35.5	36.9	37.4	39.5	
GE 3000		17.7	20.0	26.4	30.2	32.1	33.9	35.6	36.3	37.6	38.1	39.0	39.5	41.0	41.6	43.8	
GE 2500		19.6	22.4	29.5	33.0	35.0	36.9	39.0	39.6	41.1	41.6	42.5	43.0	44.5	45.0	47.3	
GE 2000		22.2	25.8	31.8	37.4	39.8	41.9	44.0	44.7	46.2	46.7	47.6	48.2	49.7	50.2	52.5	
GE 1800		22.7	26.5	34.5	38.2	40.7	42.8	45.2	45.9	47.4	48.0	48.9	49.4	50.9	51.5	53.7	
GE 1500		24.4	28.5	36.9	41.2	44.0	46.8	49.7	50.5	52.1	52.8	53.8	54.4	55.9	56.4	58.7	
GE 1200		25.1	30.1	40.1	44.8	47.7	50.7	54.1	55.1	57.2	57.9	58.9	59.7	61.1	61.7	64.0	
GE 1000		25.5	30.5	42.1	47.2	50.5	53.7	57.8	59.0	61.6	62.3	63.4	64.2	65.7	66.2	68.5	
GE 900		25.5	30.5	42.6	47.7	51.1	55.0	59.1	60.4	63.1	63.9	65.2	66.0	67.5	68.0	70.3	
GE 800		25.7	30.9	43.1	48.3	51.8	56.1	60.6	61.9	64.6	65.8	67.2	68.1	69.6	70.2	72.4	
GE 700		26.0	31.3	44.1	49.7	53.3	58.4	63.5	64.9	67.8	69.0	70.9	72.0	73.5	74.1	76.4	
GE 600		26.0	31.5	44.4	50.3	54.2	60.0	65.4	67.0	70.2	71.4	73.4	74.5	76.1	76.7	78.9	
GE 500		26.1	31.8	44.6	50.8	55.3	61.8	67.7	69.6	73.4	74.8	76.9	78.2	79.8	80.4	82.7	
GE 400		26.1	31.8	45.0	51.2	55.9	63.4	70.0	72.0	76.8	78.2	80.3	81.5	83.4	84.1	86.6	
GE 300		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.4	78.0	79.6	82.4	83.9	85.9	86.8	89.0	
GE 200		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.5	78.3	80.0	83.0	84.7	88.3	90.0	94.1	
GE 100		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.5	78.3	80.0	83.2	84.9	90.1	92.2	98.4	
GE 01		26.1	31.9	45.2	51.4	56.0	63.5	70.4	72.6	78.4	80.1	83.3	85.0	90.3	92.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106370 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING	VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	5.9	6.6	8.9	9.6	9.9	10.6	11.0	11.0	11.1	11.3	11.3	11.3	12.2	12.5	12.6	
GE 20000	7.0	8.0	11.3	12.5	13.2	13.9	14.4	14.4	14.6	14.9	14.9	15.1	16.0	16.3	16.7	
GE 18000	7.0	8.0	11.5	12.7	13.4	14.2	14.8	14.8	15.0	15.2	15.2	15.4	16.3	16.7	17.0	
GE 16000	7.0	8.0	11.5	12.7	13.4	14.2	14.8	14.8	15.0	15.2	15.2	15.4	16.3	16.7	17.0	
GE 14000	7.0	8.0	11.7	13.1	13.7	14.5	15.1	15.1	15.3	15.5	15.5	15.8	16.7	17.0	17.3	
GE 12000	7.3	9.3	12.2	13.5	14.2	15.0	15.5	15.5	15.8	16.0	16.0	16.2	17.1	17.5	17.8	
GE 10000	7.5	8.7	12.7	14.1	14.8	15.7	16.2	16.2	16.4	16.8	16.8	17.0	17.9	18.4	18.7	
GE 9000	7.5	8.7	12.7	14.1	14.8	15.7	16.2	16.2	16.4	16.8	16.8	17.0	17.9	18.4	18.7	
GE 8000	8.2	9.5	14.2	15.9	17.0	17.9	18.6	18.9	19.1	19.5	19.5	19.7	20.6	21.1	21.4	
GE 7000	10.0	11.4	16.9	18.9	20.0	20.9	21.7	22.1	22.3	22.6	22.6	22.9	23.9	24.3	24.7	
GE 6000	10.4	11.7	17.3	19.5	20.6	21.5	22.3	22.6	22.9	23.2	23.2	23.4	24.4	24.9	25.2	
GE 5000	11.7	13.2	19.3	21.6	22.7	23.6	24.5	25.0	25.2	25.7	25.7	26.0	27.0	27.5	27.8	
GE 4500	12.6	14.2	20.5	22.9	24.0	24.9	25.8	26.2	26.5	26.9	26.9	27.3	28.3	28.7	29.1	
GE 4000	14.1	16.0	22.7	25.1	26.2	27.3	28.6	29.1	29.3	29.7	29.7	30.1	31.1	31.5	31.9	
GE 3500	15.4	17.5	24.3	26.8	28.0	29.3	30.9	31.3	31.5	32.0	32.0	32.3	33.3	33.8	34.1	
GE 3000	20.2	22.6	30.9	33.8	35.2	36.7	38.4	39.0	39.4	40.0	40.1	40.4	41.6	42.0	42.3	
GE 2500	22.9	25.3	33.6	36.9	38.7	40.5	42.3	42.9	43.4	43.9	44.0	44.4	45.5	45.9	46.3	
GE 2000	25.1	28.8	37.8	41.6	43.5	45.8	47.6	48.3	48.8	49.3	49.4	49.8	50.9	51.4	51.7	
GE 1800	25.5	29.2	38.4	42.1	44.0	46.5	48.6	49.3	49.8	50.3	50.5	50.8	51.9	52.4	52.7	
GE 1600	27.4	31.6	41.4	45.6	47.7	50.7	53.3	53.9	54.7	55.4	55.5	55.9	57.0	57.4	57.8	
GE 1400	28.8	33.2	43.8	48.6	51.1	54.3	57.2	58.0	59.3	60.1	60.2	60.6	61.7	62.2	62.5	
GE 1200	29.4	33.8	45.7	51.7	54.6	58.2	61.6	62.6	64.3	65.1	65.3	65.7	66.8	67.2	67.6	
GE 1000	29.6	34.0	46.5	53.2	56.2	60.4	64.0	65.0	66.8	67.6	67.9	68.2	69.4	69.8	70.2	
GE 900	29.6	34.0	47.0	53.9	57.1	61.4	65.1	66.6	68.6	69.6	70.2	70.5	71.6	72.1	72.4	
GE 800	29.6	34.2	47.9	55.1	58.3	63.0	67.2	68.7	71.1	72.2	72.7	73.2	74.4	74.9	75.2	
GE 600	29.6	34.2	48.8	57.1	60.9	66.1	70.6	72.4	75.6	76.8	77.5	78.0	79.3	79.7	80.1	
GE 500	29.8	34.2	48.8	57.3	61.9	67.7	73.0	75.0	78.9	80.3	81.2	82.0	83.4	83.9	84.5	
GE 400	29.6	34.2	48.8	57.3	62.3	68.9	75.2	77.9	82.9	84.2	85.6	86.4	88.1	88.6	89.3	
GE 300	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	83.9	85.7	87.3	88.6	90.8	91.9	93.1	
GE 200	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	84.0	85.9	87.7	90.0	94.4	96.1	98.0	
GE 100	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	84.0	85.9	87.7	90.0	94.6	96.4	99.4	
GE CI	30.0	34.3	48.9	57.4	62.4	69.0	75.5	78.4	84.1	86.0	87.8	90.1	94.7	96.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 808

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		12.6	14.4	16.7	17.6	17.8	18.2	18.5	18.5	18.6	18.6	18.8	18.8	18.8	18.8	18.8
GE 2000		14.3	16.5	19.7	20.7	21.0	21.4	21.9	21.9	22.0	22.0	22.2	22.2	22.2	22.2	22.2
GE 1800		14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0
GE 1600		14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0
GE 1400		14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0
GE 1200		14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0
GE 1000		15.1	17.5	21.1	22.1	22.4	22.9	23.3	23.3	23.4	23.4	23.7	23.7	23.7	23.7	23.7
GE 900		15.3	17.7	21.4	22.4	22.8	23.2	23.6	23.9	24.0	24.0	24.2	24.2	24.2	24.2	24.2
GE 800		16.9	19.4	23.3	24.6	25.3	26.0	26.6	26.9	27.1	27.1	27.3	27.3	27.3	27.3	27.3
GE 700		19.4	21.1	25.5	26.9	27.7	28.5	29.1	29.4	29.7	29.7	29.9	29.9	30.0	30.0	30.0
GE 600		18.6	21.3	25.9	27.5	28.3	29.2	29.8	30.1	30.3	30.3	30.6	30.6	30.7	30.7	30.7
GE 500		20.5	23.6	28.5	30.1	30.9	31.8	32.5	32.9	33.1	33.1	33.4	33.4	33.5	33.5	33.5
GE 450		21.3	24.4	29.3	30.9	31.7	32.7	33.4	33.8	34.0	34.0	34.3	34.3	34.4	34.4	34.4
GE 400		23.0	26.2	31.9	33.5	34.4	35.4	36.1	36.5	36.8	36.8	37.0	37.0	37.1	37.1	37.1
GE 350		25.3	28.4	34.5	36.3	37.3	38.4	39.2	39.8	40.0	40.0	40.2	40.2	40.4	40.4	40.4
GE 300		32.4	35.9	43.1	45.2	46.2	47.5	48.5	49.2	49.5	49.6	49.8	49.8	49.9	49.9	49.9
GE 250		36.2	39.9	47.6	50.3	51.3	52.6	53.9	54.7	55.0	55.1	55.4	55.4	55.5	55.5	55.5
GE 200		39.0	43.1	52.2	55.4	56.4	57.9	59.3	60.1	60.4	60.5	60.8	60.8	60.9	60.9	60.9
GE 180		39.7	43.7	53.2	56.5	57.5	59.1	60.5	61.3	61.7	61.8	62.0	62.0	62.1	62.1	62.1
GE 150		41.0	45.5	56.8	60.8	61.8	64.3	66.1	67.0	67.5	67.6	67.9	67.9	68.0	68.0	68.0
GE 120		43.1	47.7	59.9	64.8	66.2	69.1	71.3	72.2	72.9	73.1	73.3	73.3	73.4	73.4	73.4
GE 100		43.5	48.5	62.3	68.8	70.6	74.5	77.2	78.1	79.3	79.4	79.6	79.7	79.8	79.8	79.8
GE 90		43.6	48.6	61.4	70.3	72.3	76.3	79.0	79.9	81.1	81.2	81.4	81.5	81.6	81.6	81.6
GE 80		43.6	48.7	63.8	71.6	74.0	78.5	81.4	82.3	83.4	83.5	84.2	84.3	84.4	84.4	84.4
GE 70		43.6	48.9	65.1	73.7	76.3	81.2	84.6	85.5	86.8	86.9	87.6	87.8	87.9	87.9	87.9
GE 60		43.6	48.9	65.5	74.2	77.1	82.5	86.4	87.5	89.1	89.2	90.0	90.2	90.6	90.6	90.6
GE 50		43.6	48.9	65.5	74.4	77.6	83.2	87.7	89.0	90.8	91.0	91.8	92.2	93.1	93.1	93.1
GE 40		43.6	48.9	65.5	74.4	77.7	84.2	88.8	90.4	92.8	93.0	93.9	94.4	95.4	95.4	95.4
GE 30		43.6	48.9	65.5	74.4	77.7	84.2	89.0	90.5	93.0	93.6	94.6	95.8	96.8	96.8	97.2
GE 20		43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	99.3
GE 10		43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	100.0
GE 0		43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 867

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 46	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE L	
NO CEIL		14.3	16.0	19.4	20.6	20.8	21.2	21.3	21.4	21.5	21.5	21.6	21.6	21.6	21.6	21.6	
GE 20000		17.7	20.5	24.1	25.7	26.0	26.5	26.6	26.7	26.8	26.8	26.9	26.9	27.0	27.0	27.0	
GE 18000		18.1	20.9	24.5	26.1	26.6	27.0	27.1	27.3	27.4	27.4	27.5	27.5	27.6	27.6	27.6	
GE 16000		18.2	21.1	24.7	26.2	26.7	27.1	27.3	27.4	27.5	27.5	27.6	27.6	27.7	27.7	27.7	
GE 14000		18.4	21.2	24.8	26.4	26.8	27.3	27.4	27.5	27.6	27.6	27.7	27.7	27.8	27.8	27.8	
GE 12000		18.5	21.3	24.9	26.5	26.9	27.4	27.5	27.6	27.7	27.7	27.8	27.8	27.9	27.9	27.9	
GE 10000		19.0	22.0	25.6	27.1	27.6	28.2	28.3	28.4	28.5	28.5	28.6	28.6	28.7	28.7	28.7	
GE 9000		19.5	22.4	26.0	27.6	28.0	28.6	28.7	28.8	28.9	28.9	29.1	29.1	29.2	29.2	29.2	
GE 8000		20.8	23.9	28.2	29.8	30.5	31.9	32.1	32.4	32.5	32.5	32.8	32.8	32.9	32.9	32.9	
GE 7000		22.9	26.1	30.5	32.4	33.1	34.6	34.9	35.2	35.5	35.5	35.7	35.7	35.8	35.8	35.8	
GE 6000		23.6	26.2	30.6	32.5	33.2	34.7	35.0	35.4	35.6	35.6	35.6	35.8	35.9	35.9	35.9	
GE 5000		24.7	28.6	34.1	36.1	37.0	38.5	38.9	39.2	39.5	39.5	39.8	39.8	39.9	39.9	39.9	
GE 4500		26.5	30.4	36.3	38.7	39.6	41.1	41.4	41.8	42.1	42.1	42.3	42.3	42.5	42.5	42.5	
GE 4000		28.0	32.2	38.5	41.2	42.2	43.7	44.0	44.4	44.7	44.7	44.9	44.9	45.0	45.2	45.2	
GE 3500		30.2	34.3	40.9	43.9	44.9	46.4	46.7	47.1	47.4	47.4	47.6	47.7	47.9	47.9	47.9	
GE 3000		36.3	41.1	48.3	51.6	52.8	54.5	55.1	55.4	55.7	55.7	56.0	56.1	56.2	56.2	56.2	
GE 2500		39.6	44.9	52.8	56.3	57.5	59.3	60.0	60.6	60.9	60.9	61.1	61.3	61.4	61.4	61.4	
GE 2000		41.7	47.3	57.0	61.6	63.0	65.3	66.1	66.8	67.3	67.3	67.6	67.7	67.8	67.8	67.8	
GE 1800		42.2	48.1	58.3	63.3	64.6	67.2	68.0	68.8	69.4	69.4	69.6	69.7	69.8	69.8	69.8	
GE 1500		44.1	50.5	62.2	67.8	69.3	72.2	73.0	73.8	74.5	74.5	74.8	74.9	75.0	75.0	75.0	
GE 1200		44.9	51.7	64.6	71.5	73.3	77.7	79.4	80.2	81.1	81.2	81.4	81.6	81.8	81.8	81.8	
GE 1000		44.9	51.8	66.3	74.2	76.2	81.1	83.0	84.0	84.9	85.0	85.4	85.6	85.7	85.7	85.7	
GE 900		44.9	51.8	66.7	75.3	77.5	82.3	84.2	85.2	86.1	86.3	86.6	86.8	86.9	86.9	86.9	
GE 800		44.9	51.9	67.6	76.5	78.7	83.8	86.1	87.2	88.2	88.4	88.7	89.0	89.1	89.1	89.1	
GE 700		44.9	51.9	67.6	77.5	79.7	85.6	88.5	89.6	90.8	91.0	91.3	91.7	91.9	91.9	91.9	
GE 600		44.9	51.9	67.7	77.9	80.4	86.8	90.0	91.1	92.2	92.8	93.1	93.6	93.8	93.8	93.8	
GE 500		44.9	51.9	67.7	77.9	80.4	87.0	90.7	91.8	93.2	93.8	94.1	94.6	94.8	94.8	94.8	
GE 400		44.9	51.9	67.7	78.0	80.5	87.5	91.4	92.6	94.7	95.4	95.7	96.2	96.4	96.4	96.4	
GE 300		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.4	96.2	96.7	97.3	97.5	97.5	97.5	
GE 200		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.6	96.4	97.1	97.7	98.4	98.5	99.2	
GE 100		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.6	96.4	97.1	97.7	98.4	98.6	99.9	
GE	CL	44.9	51.9	67.7	78.2	80.6	87.6	91.7	92.8	95.7	96.5	97.2	97.9	98.5	98.8	100.0	
TOTAL NUMBER OF OBSERVATIONS:		888															

GLOBAL CLIMATOLOGY BRANCH
LSAFTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GE 160	GE 90	GE 80	GE 60	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	GE 2	GE 1
NO CEIL	13.9	15.5	19.9	23.0	23.5	24.4	25.6	26.2	26.9	27.0	27.1	27.3	27.9	28.6	28.7		
GE 20000	15.0	17.0	22.0	25.6	26.2	27.3	28.4	29.2	29.8	30.0	30.1	30.2	31.0	31.6	31.8		
GE 18000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9		
GE 16000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9		
GE 14000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9		
GE 12000	15.0	17.0	22.2	25.8	26.5	27.5	28.6	29.4	30.3	30.4	30.5	30.6	31.4	32.1	32.2		
GE 10000	15.5	18.0	23.5	27.1	27.8	28.8	30.0	30.7	31.6	31.8	31.9	32.0	32.8	33.4	33.6		
GE 9000	15.9	18.4	23.9	27.5	28.2	29.2	30.3	31.1	32.0	32.1	32.2	32.3	33.1	33.8	33.9		
GE 8000	17.3	19.9	26.8	30.7	31.4	32.4	33.6	34.7	35.8	35.9	36.0	36.1	36.9	37.6	37.7		
GE 7000	18.4	20.9	28.0	32.1	32.9	34.1	35.6	36.7	38.0	38.1	38.2	38.3	39.1	39.9	40.0		
GE 6000	18.6	21.2	28.3	32.3	33.1	34.3	35.9	37.0	38.3	38.4	38.5	38.6	39.4	40.2	40.3		
GE 5000	20.9	23.6	31.1	35.6	36.4	37.6	39.5	40.7	41.9	42.0	42.1	42.2	43.0	43.8	43.9		
GE 4500	22.1	24.8	32.5	37.2	38.2	39.4	41.3	42.5	43.7	43.8	43.9	44.0	44.8	45.6	45.7		
GE 4000	24.2	27.3	35.6	40.8	41.6	43.2	45.3	46.4	47.6	47.7	48.1	48.2	49.0	49.8	49.9		
GE 3500	26.0	29.1	37.7	43.0	44.0	45.5	47.5	48.6	50.0	50.1	50.5	50.6	51.4	52.1	52.3		
GE 3000	29.1	32.8	42.5	47.9	49.3	51.2	53.6	54.8	56.2	56.3	56.6	56.9	57.7	58.4	58.6		
GE 2500	31.0	34.9	45.9	51.9	53.4	55.7	58.6	60.1	61.5	61.6	61.9	62.2	63.0	63.7	63.9		
GE 2000	32.4	37.2	49.4	56.3	58.1	60.8	64.2	65.8	67.6	67.7	68.0	68.2	69.0	69.8	69.9		
GE 1800	32.9	37.6	50.6	57.8	59.6	62.3	65.7	67.2	69.0	69.1	69.5	69.7	70.5	71.3	71.4		
GE 1600	34.2	39.4	53.0	60.7	62.7	65.5	69.5	71.1	72.9	73.0	73.3	73.5	74.3	75.1	75.2		
GE 1400	34.8	40.2	55.2	63.7	65.9	69.6	73.6	75.2	77.1	77.4	77.8	78.0	78.8	79.6	79.7		
GE 1000	34.9	40.3	55.7	65.0	67.2	71.2	75.5	77.0	79.4	80.0	80.4	80.6	81.4	82.2	82.3		
GE 900	35.0	40.4	56.1	65.7	68.0	72.0	76.2	77.8	80.5	81.1	81.5	81.8	82.5	83.3	83.7		
GE 800	35.0	40.4	56.5	66.6	68.9	73.0	77.4	79.1	81.8	82.3	82.9	83.1	83.9	84.7	85.0		
GE 700	35.0	40.4	56.9	66.9	69.7	74.0	79.1	80.9	83.6	84.1	84.7	85.1	85.9	86.7	87.0		
GE 600	35.0	40.4	56.9	67.5	70.3	74.9	80.3	82.1	84.9	85.7	86.3	86.7	87.5	88.3	88.6		
GE 500	35.0	40.4	56.9	67.8	70.6	75.6	82.3	84.1	87.4	88.5	89.1	89.5	90.4	91.2	91.6		
GE 400	35.1	40.5	57.0	68.1	70.9	76.2	83.6	85.4	88.7	90.1	90.9	91.6	92.6	93.4	93.7		
GE 300	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.0	91.3	92.2	93.1	94.3	95.0	95.7		
GE 200	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.2	91.6	92.6	93.8	96.1	96.8	97.7		
GE 100	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.2	91.6	92.6	93.8	96.2	97.1	99.2		
GE 01	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.5	90.3	91.7	92.7	93.9	96.4	97.6	100.0		

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS														
IN FEET	ST 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		12.7	13.9	18.4	19.7	20.5	21.8	24.1	24.4	25.3	26.0	26.4	26.4	27.8	29.6	30.0
GE 20000		13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9
GE 18000		13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9
GE 16000		13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9
GE 14000		13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9
GE 12000		13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9
GE 10000		14.0	15.3	21.2	23.3	24.1	25.7	28.3	28.5	29.5	30.3	30.7	30.7	32.1	32.9	34.3
GE 9000		14.1	15.4	21.3	23.4	24.2	25.8	28.4	28.6	29.7	30.4	30.8	30.8	32.2	33.0	34.4
GE 8000		16.0	17.8	24.9	27.5	28.5	30.1	32.7	32.9	34.0	34.8	35.2	35.2	36.6	37.4	38.8
GE 7000		17.1	18.9	26.2	29.1	30.1	31.8	34.4	34.6	36.1	36.9	37.3	37.3	38.9	39.7	41.0
GE 6000		17.4	19.2	26.4	29.3	30.3	32.0	34.6	34.8	36.3	37.1	37.5	37.5	39.1	39.9	41.3
GE 5000		19.2	21.0	29.1	32.0	33.1	34.9	37.8	38.1	39.8	40.6	41.0	41.0	42.6	43.4	44.8
GE 4500		20.2	22.0	30.2	33.1	34.3	36.0	39.0	39.5	41.3	42.1	42.6	42.6	44.2	45.0	46.3
GE 4000		21.6	23.9	32.9	36.1	37.4	39.2	42.4	42.8	44.8	45.5	46.1	46.1	47.7	48.5	49.8
GE 3500		23.2	25.5	34.8	38.3	39.7	41.5	44.8	45.3	47.5	48.3	48.8	48.8	50.5	51.3	52.6
GE 3000		25.3	28.2	38.3	41.9	43.5	45.7	49.3	49.9	52.8	53.6	54.2	54.2	55.9	56.7	58.2
GE 2500		26.9	30.0	41.5	45.2	46.8	49.0	52.6	53.6	56.4	57.2	57.8	57.8	59.5	60.3	61.8
GE 2000		27.8	31.2	43.7	47.9	49.9	52.3	56.3	57.2	60.3	61.1	61.8	61.8	63.5	64.3	65.7
GE 1600		28.3	31.7	44.5	48.8	50.8	53.7	57.6	58.5	61.7	62.5	63.1	63.1	64.8	65.6	67.1
GE 1500		29.7	33.1	47.7	52.2	54.5	57.8	62.3	63.2	66.4	67.2	67.9	67.9	69.6	70.3	71.8
GE 1200		30.7	34.4	50.4	55.5	57.7	61.7	66.4	67.4	70.7	71.5	72.2	72.2	74.0	74.7	76.2
GE 1000		30.7	34.4	50.7	56.6	59.1	63.0	68.1	69.1	72.9	73.8	74.7	74.7	76.6	77.3	78.8
GE 900		30.7	34.5	51.1	57.0	59.6	63.6	68.9	69.9	73.8	74.7	75.6	75.9	77.7	78.6	80.0
GE 800		31.0	34.9	51.6	57.8	60.7	64.6	70.0	71.0	75.0	75.9	76.9	77.1	78.9	79.8	81.3
GE 700		31.0	34.9	52.1	58.5	61.7	66.0	71.5	72.5	76.4	77.5	78.5	78.8	80.6	81.5	83.0
GE 600		31.1	35.2	52.3	59.2	62.5	67.3	73.1	74.1	78.2	79.4	80.4	80.7	82.5	83.4	84.9
GE 500		31.1	35.5	52.6	59.6	63.1	68.7	75.2	76.6	81.1	82.2	83.4	83.8	85.6	86.6	88.0
GE 400		31.2	35.6	52.9	59.9	63.5	69.2	76.1	77.5	82.6	84.0	85.3	85.7	87.5	88.5	90.0
GE 300		31.2	35.6	52.9	60.0	63.7	69.4	77.2	78.8	84.3	85.7	87.0	87.5	89.7	90.8	92.3
GE 200		31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.5	87.1	88.8	89.6	92.7	94.3	96.3
GE 100		31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.7	87.4	89.2	90.1	93.5	95.7	98.6
GE 0		31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.7	87.4	89.2	90.1	93.9	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(151): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 60	GE 40	GE 24	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3	GE 2	GE 1	GE 0	GE 0
NO CEIL	11.0	12.3	15.9	17.1	17.7	18.4	19.4	19.7	20.2	20.3	20.7	20.8	21.8	22.2	23.2	
GE 20000	12.3	13.9	18.1	19.8	20.5	21.3	22.4	22.7	23.2	23.4	23.8	23.9	25.0	25.4	26.4	
GE 18000	12.4	14.1	18.4	20.1	20.8	21.7	22.8	23.0	23.5	23.7	24.1	24.3	25.4	25.8	26.8	
GE 16000	12.4	14.1	18.4	20.1	20.8	21.7	22.8	23.1	23.5	23.8	24.2	24.3	25.4	25.8	26.8	
GE 14000	12.5	14.1	18.5	20.2	20.9	21.8	22.9	23.2	23.7	23.9	24.3	24.4	25.5	25.9	26.9	
GE 12000	12.5	14.2	18.6	20.4	21.1	22.0	23.1	23.4	23.9	24.1	24.5	24.7	25.8	26.2	27.2	
GE 10000	13.1	14.9	19.6	21.5	22.2	23.2	24.3	24.6	25.1	25.3	25.7	25.9	27.0	27.4	28.4	
GE 9000	13.2	15.1	19.8	21.7	22.4	23.4	24.5	24.9	25.4	25.6	26.0	26.2	27.3	27.7	28.7	
GE 8000	14.4	16.4	21.8	24.1	25.0	26.2	27.4	27.9	28.5	28.7	29.1	29.3	30.4	30.9	31.8	
GE 7000	15.0	17.7	23.6	26.1	27.1	28.4	29.7	30.2	30.9	31.1	31.6	31.8	32.9	33.4	34.4	
GE 6000	15.8	17.9	23.9	26.4	27.4	28.7	30.0	30.5	31.2	31.4	31.9	32.1	33.3	33.7	34.7	
GE 5000	17.4	19.6	26.2	28.8	29.8	31.2	32.8	33.3	34.1	34.3	34.8	35.0	36.1	36.6	37.6	
GE 4500	18.4	20.7	27.6	30.4	31.4	32.9	34.5	35.1	35.9	36.2	36.6	36.9	38.0	38.5	39.5	
GE 4000	20.1	22.8	30.3	33.2	34.4	35.9	37.7	38.3	39.1	39.4	39.9	40.2	41.4	41.8	42.8	
GE 3500	21.7	24.3	32.4	35.3	36.4	38.1	39.9	40.5	41.5	41.8	42.3	42.5	43.7	44.2	45.2	
GE 3000	25.4	28.5	37.1	40.4	41.8	43.8	46.0	46.7	47.8	48.2	48.7	49.0	50.3	50.7	51.8	
GE 2500	27.6	31.0	40.2	43.8	45.3	47.5	49.8	50.6	51.8	52.2	52.7	53.0	54.3	54.8	55.8	
GE 2000	29.5	33.5	43.8	47.9	49.5	52.0	54.5	55.4	56.8	57.2	57.7	58.0	59.3	59.8	60.8	
GE 1800	30.0	33.9	44.6	48.8	50.5	53.1	55.8	56.7	58.1	58.4	59.0	59.3	60.5	61.0	62.1	
GE 1500	31.4	35.8	47.5	52.2	54.1	57.1	60.2	61.1	62.7	63.1	63.7	64.0	65.3	65.7	66.8	
GE 1200	32.5	37.1	50.1	55.5	57.6	61.3	65.1	66.1	68.0	68.4	69.0	69.4	70.7	71.2	72.2	
GE 1000	32.7	37.5	51.8	58.0	60.3	64.4	68.7	69.8	72.0	72.5	73.2	73.5	74.8	75.3	76.4	
GE 900	32.8	37.6	52.2	58.9	61.4	65.7	70.1	71.3	73.6	74.1	74.9	75.2	76.6	77.1	78.2	
GE 800	32.9	37.6	52.6	59.8	62.4	67.1	71.8	73.0	75.4	76.0	76.8	77.2	78.6	79.1	80.2	
GE 700	33.0	37.9	53.5	60.9	63.6	68.7	73.8	75.1	77.7	78.3	79.2	79.7	81.1	81.7	82.8	
GE 600	33.0	38.0	53.9	61.6	64.7	70.3	75.7	77.1	79.9	80.7	81.6	82.2	83.6	84.1	85.2	
GE 500	33.1	38.1	54.1	62.0	65.3	71.4	77.6	79.2	82.4	83.3	84.3	84.9	86.5	87.0	88.2	
GE 400	33.2	38.2	54.3	62.3	65.6	72.4	79.0	80.9	84.8	85.7	86.9	87.5	89.2	89.8	91.0	
GE 300	33.2	38.2	54.3	62.3	65.7	72.5	79.5	81.5	85.8	86.9	88.4	89.3	91.2	92.0	93.5	
GE 200	33.2	38.2	54.3	62.3	65.7	72.6	79.6	81.7	86.3	87.5	89.2	90.4	93.4	94.4	96.7	
GE 100	33.2	38.2	54.3	62.3	65.7	72.6	79.6	81.7	86.3	87.6	89.3	90.7	94.2	95.6	99.1	
GE 0	33.2	38.3	54.3	62.4	65.8	72.6	79.7	81.8	86.4	87.7	89.4	90.7	94.4	95.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7097

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 40	GE 30	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 3		
NO CEIL		7.2	6.2	11.6	15.1	15.8	16.7	18.8	18.8	19.0	19.0	19.8	19.8	20.5	20.5	20.7	
GE 20000		8.0	9.3	12.6	16.6	17.2	18.1	20.5	20.5	20.7	20.7	21.6	21.6	22.3	22.3	22.7	
GE 18000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5	
GE 16000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5	
GE 14000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5	
GE 12000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5	
GE 10000		9.6	11.0	14.7	18.6	19.4	20.3	22.8	22.8	23.2	23.2	24.1	24.1	24.8	24.8	25.3	
GE 9000		9.8	11.1	14.9	18.9	19.7	20.6	23.1	23.1	23.5	23.5	24.4	24.4	25.0	25.0	25.6	
GE 8000		10.6	11.9	15.9	20.1	21.0	21.9	24.9	24.9	25.3	25.3	26.2	26.3	27.0	27.0	27.5	
GE 7000		11.3	12.6	16.9	21.5	22.4	23.5	26.7	26.7	27.1	27.1	28.0	28.2	28.8	28.8	29.3	
GE 6000		11.7	13.0	17.3	21.9	22.8	23.9	27.1	27.1	27.5	27.5	28.4	28.6	29.2	29.2	29.7	
GE 5000		12.5	14.1	18.8	23.3	24.3	25.3	28.6	28.6	28.9	28.9	29.9	30.0	30.6	30.6	31.2	
GE 4500		13.6	15.3	20.1	24.6	25.6	26.6	29.9	29.9	30.2	30.2	31.2	31.3	31.9	31.9	32.5	
GE 4000		14.6	16.4	21.9	26.5	27.4	28.4	31.7	31.7	32.1	32.1	33.0	33.1	33.8	33.8	34.3	
GE 3500		16.3	18.3	24.3	29.2	30.2	31.7	34.9	34.9	35.3	35.3	36.2	36.4	37.0	37.0	37.5	
GE 3000		21.1	23.3	31.0	36.4	37.5	39.2	42.9	43.0	43.4	43.4	44.5	45.1	45.8	45.8	46.3	
GE 2500		22.3	24.5	33.2	39.0	40.2	41.9	45.8	45.9	46.4	46.4	47.5	48.1	48.8	48.8	49.3	
GE 2000		25.3	27.5	38.5	45.2	46.5	48.9	53.6	53.7	54.2	54.2	55.3	55.9	56.6	56.6	57.1	
GE 1800		25.8	28.0	39.1	46.2	47.8	49.8	54.5	54.6	55.1	55.1	56.2	56.8	57.5	57.5	58.0	
GE 1500		27.6	30.2	42.5	50.7	52.4	54.9	60.0	60.4	60.9	61.1	62.2	62.8	63.5	63.5	64.0	
GE 1200		28.4	31.8	45.6	54.6	56.7	59.7	65.7	66.4	67.0	67.3	68.3	69.0	69.6	69.6	70.1	
GE 1000		29.9	33.2	48.0	58.4	60.5	64.0	70.7	71.3	72.1	72.5	73.7	74.3	75.0	75.0	75.5	
GE 900		29.9	33.2	48.4	59.2	61.7	65.4	72.6	73.3	74.1	74.4	75.6	76.3	76.9	76.9	77.4	
GE 800		30.1	33.9	49.0	60.4	63.2	67.0	74.2	74.8	75.6	76.0	77.3	78.0	79.1	79.1	79.7	
GE 700		30.5	34.3	50.1	61.5	64.5	68.7	76.5	77.3	78.2	78.6	79.9	80.6	81.7	81.7	82.3	
GE 600		30.5	34.3	50.2	61.9	65.6	70.4	78.7	79.5	80.8	81.5	82.8	83.4	84.6	84.6	85.1	
GE 500		30.5	34.3	50.2	62.3	66.0	71.4	80.6	81.5	83.3	84.2	85.8	86.8	88.0	88.0	88.5	
GE 400		30.5	34.3	50.5	62.7	66.4	72.0	82.0	83.4	85.5	86.4	88.1	89.3	90.7	90.7	91.3	
GE 300		30.5	34.3	50.5	62.7	66.4	72.2	83.2	85.3	87.4	88.5	90.4	91.5	93.0	93.4	94.0	
GE 200		30.5	34.3	50.5	62.7	66.4	72.4	83.6	86.2	88.7	90.4	92.4	94.3	96.0	96.7	97.7	
GE 100		30.5	34.4	50.6	62.8	66.5	72.5	83.7	86.4	88.9	90.7	93.2	95.3	97.3	98.4	99.9	
GE JJ		30.5	34.4	50.6	62.8	66.5	72.5	83.7	86.4	88.9	90.7	93.2	95.3	97.3	98.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 767

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENVOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS/IST: 0300-0500

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	1 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		8.9	10.1	12.3	16.0	16.4	17.9	19.1	19.8	19.8	19.8	20.0	20.1	20.4	20.5	20.9
GE 20000		9.1	10.2	12.4	16.6	17.0	18.5	19.8	20.4	20.5	20.5	20.9	21.0	21.2	21.4	21.7
GE 18000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 16000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 14000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 12000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 10000		10.1	11.2	13.8	18.0	18.4	19.9	21.4	22.0	22.4	22.4	22.7	22.9	23.1	23.4	23.9
GE 9000		10.6	11.7	14.4	18.6	19.0	20.5	22.0	22.6	23.0	23.0	23.4	23.5	23.7	24.0	24.5
GE 8000		11.2	12.4	15.3	19.5	20.0	21.5	23.2	23.9	24.2	24.2	24.6	24.7	25.0	25.2	25.7
GE 7000		11.6	12.8	15.8	20.0	20.5	22.0	24.0	24.6	25.0	25.0	25.3	25.5	25.7	26.0	26.5
GE 6000		11.6	12.8	15.8	20.0	20.5	22.0	24.0	24.6	25.0	25.0	25.3	25.5	25.7	26.0	26.5
GE 5000		12.3	13.5	16.9	21.5	22.0	23.5	25.5	26.1	26.5	26.5	26.8	27.0	27.2	27.5	28.0
GE 4500		13.9	15.3	19.6	23.6	24.1	25.8	27.8	28.4	28.8	28.8	29.2	29.3	29.6	29.8	30.3
GE 4000		15.4	16.8	21.1	25.7	26.2	28.0	29.9	30.6	30.9	30.9	31.3	31.4	31.7	31.9	32.4
GE 3500		16.5	17.9	22.6	27.7	28.2	30.3	32.3	33.0	33.4	33.4	33.8	33.9	34.2	34.4	34.9
GE 3000		20.5	22.4	28.2	33.7	34.3	36.9	39.4	40.1	40.5	40.5	40.9	41.1	41.5	41.7	42.2
GE 2500		21.6	23.6	29.7	35.3	36.1	38.9	41.4	42.1	42.6	42.6	43.1	43.4	43.7	44.0	44.5
GE 2000		25.0	27.5	36.4	42.4	44.1	47.0	49.7	50.6	51.3	51.3	51.8	52.0	52.4	52.7	53.2
GE 1800		25.8	28.3	36.1	44.5	46.2	49.2	51.9	52.8	53.7	53.7	54.2	54.4	54.8	55.0	55.5
GE 1500		27.1	29.9	40.5	47.7	49.8	53.3	56.1	57.0	58.3	58.5	59.0	59.3	59.6	59.7	60.4
GE 1200		29.1	32.5	44.3	52.0	54.3	58.4	61.7	62.7	64.5	64.7	65.2	65.5	65.8	66.1	66.6
GE 1000		30.3	33.8	46.3	55.2	57.4	62.5	66.7	67.8	69.9	70.3	70.8	71.1	71.4	71.7	72.2
GE 900		30.8	34.3	47.3	56.8	59.1	64.5	68.6	70.3	72.4	72.8	73.3	73.5	74.3	74.5	75.0
GE 800		31.3	34.9	48.2	58.0	60.6	66.0	70.6	72.0	74.2	74.5	75.0	75.3	76.3	76.5	77.0
GE 700		31.4	35.3	49.7	60.0	62.9	68.2	73.4	75.2	77.9	78.3	78.8	79.0	80.0	80.2	80.7
GE 600		31.4	35.3	50.1	61.4	64.6	70.1	75.8	77.8	80.6	81.0	81.5	81.9	82.9	83.1	83.6
GE 500		31.4	35.3	50.1	61.9	65.2	71.3	77.9	79.9	83.0	83.4	83.9	84.3	85.1	85.6	86.1
GE 400		31.4	35.3	50.4	62.2	65.7	72.3	79.9	81.9	85.3	85.7	86.5	87.1	88.1	88.3	88.9
GE 300		31.4	35.3	50.4	62.6	66.1	73.3	81.5	84.0	88.1	88.4	89.3	89.9	91.1	91.3	92.2
GE 200		31.4	35.3	50.4	62.7	66.3	73.7	82.2	85.5	89.8	90.8	92.5	93.7	95.0	95.7	97.1
GE 100		31.4	35.3	50.4	62.7	66.3	73.8	82.5	85.7	90.1	91.1	92.8	94.4	96.3	97.5	100.0
GE 0		31.4	35.3	50.4	62.7	66.3	73.8	82.5	85.7	90.1	91.1	92.8	94.4	96.3	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 805

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 126870 STATION NAME: GRAFENVOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 46	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		9.5	10.9	13.1	15.4	15.9	16.9	18.0	18.0	18.1	18.1	18.6	18.8	18.8	19.2	19.5	
GE 2000		10.0	11.6	14.1	16.7	17.2	18.2	19.4	19.4	19.5	19.5	20.3	20.6	20.6	20.9	21.3	
GE 1800		10.4	11.9	14.6	17.2	17.6	18.7	19.9	19.9	20.0	20.0	20.8	21.0	21.0	21.4	22.0	
GE 1600		10.4	11.9	14.6	17.3	17.8	18.8	20.0	20.0	20.1	20.1	20.9	21.1	21.1	21.5	22.1	
GE 1400		10.4	11.9	14.6	17.3	17.8	18.8	20.0	20.0	20.1	20.1	20.9	21.1	21.1	21.5	22.1	
GE 1200		10.6	12.1	14.8	17.5	18.0	19.0	20.2	20.2	20.3	20.3	21.1	21.4	21.4	21.7	22.3	
GE 1000		11.1	12.6	15.3	18.1	18.6	19.6	21.0	21.0	21.1	21.1	22.0	22.2	22.2	22.7	23.2	
GE 900		11.3	12.9	15.5	18.3	18.6	19.9	21.3	21.3	21.4	21.4	22.2	22.4	22.4	22.9	23.5	
GE 800		12.0	13.6	16.4	19.4	19.9	21.1	22.9	22.9	23.0	23.0	23.8	24.1	24.2	24.8	25.4	
GE 700		12.7	14.3	17.1	20.1	20.6	22.0	23.8	23.8	23.9	23.9	24.8	25.1	25.2	25.8	26.4	
GE 600		12.7	14.3	17.1	20.1	20.6	22.0	23.8	23.8	23.9	23.9	24.8	25.1	25.2	25.8	26.4	
GE 500		13.2	14.7	18.0	21.1	21.6	23.0	25.0	25.0	25.1	25.1	25.9	26.3	26.4	27.0	27.6	
GE 450		13.6	15.7	19.7	23.0	23.6	25.1	27.2	27.2	27.3	27.3	28.2	28.5	28.6	29.2	29.6	
GE 400		15.8	17.6	22.3	26.1	26.6	28.3	30.4	30.5	30.7	30.8	31.8	32.1	32.2	32.8	33.4	
GE 350		16.4	18.3	23.7	27.9	28.6	30.5	32.7	32.9	33.2	33.3	34.2	34.6	34.7	35.3	35.9	
GE 300		19.4	22.0	27.8	32.5	33.3	36.0	38.3	38.6	39.0	39.1	40.4	40.9	41.0	41.6	42.2	
GE 250		20.9	23.5	30.3	35.3	36.1	38.8	41.7	41.9	42.5	42.6	43.9	44.4	44.5	45.1	45.7	
GE 200		24.3	27.8	36.0	41.4	42.6	45.6	48.8	49.1	50.1	50.2	51.6	52.1	52.2	52.8	53.4	
GE 180		25.5	29.2	37.5	43.5	44.7	47.7	50.9	51.2	52.2	52.3	53.7	54.2	54.3	54.9	55.5	
GE 150		26.8	30.6	39.4	46.0	47.5	50.7	54.7	54.9	56.1	56.2	57.6	58.1	58.2	58.9	59.5	
GE 120		28.2	32.4	42.2	49.3	51.2	54.9	59.7	60.2	62.0	62.1	63.6	64.0	64.3	65.0	65.5	
GE 100		30.0	34.2	44.9	52.7	54.7	59.0	64.3	65.0	67.1	67.3	68.8	69.3	69.5	70.3	70.9	
GE 90		30.4	34.6	45.4	53.9	56.0	60.5	66.1	66.9	69.2	69.5	71.0	71.5	71.7	72.7	73.2	
GE 80		30.5	34.9	46.5	55.7	57.9	62.6	68.3	69.2	71.5	71.8	73.4	73.9	74.3	75.4	75.9	
GE 70		30.7	35.3	47.5	57.7	60.0	65.2	71.0	72.0	74.5	74.9	76.4	77.0	77.5	78.5	79.1	
GE 60		30.8	35.6	47.9	59.1	62.0	67.3	73.8	74.8	77.7	78.3	79.8	80.6	81.2	82.2	82.8	
GE 50		31.0	35.7	48.1	59.6	63.1	68.7	75.9	77.0	80.3	80.8	82.4	83.2	83.8	84.8	85.5	
GE 40		31.0	35.7	48.5	60.5	64.1	70.2	78.0	79.3	82.7	83.4	85.0	85.9	86.4	87.6	88.6	
GE 30		31.0	35.7	48.5	60.5	64.1	70.9	79.3	80.7	84.6	85.5	87.3	88.2	89.1	90.4	91.4	
GE 20		31.0	35.7	48.5	60.5	64.1	71.1	80.3	81.9	86.1	87.5	89.6	91.6	94.5	96.1	98.2	
GE 10		31.0	35.7	48.5	60.5	64.1	71.1	80.3	82.1	86.3	87.7	89.8	91.9	94.9	97.0	99.8	
GE 0		31.0	35.7	48.5	60.5	64.1	71.3	80.4	82.2	86.4	87.9	90.0	92.1	95.0	97.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 856

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: DEC HOUR(S): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	7.6	9.5	13.1	14.3	14.9	15.7	16.5	16.7	16.9	17.0	17.1	17.2	17.3	17.4	17.7	
GE 20000		8.3	10.7	15.2	16.4	17.1	17.9	18.8	19.3	19.5	19.7	19.8	19.9	20.0	20.1	20.3
GE 18000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.2	21.3	21.4	21.5	21.6	22.0
GE 16000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.2	21.3	21.4	21.5	21.6	22.0
GE 14000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.3	21.4	21.5	21.6	21.7	22.1
GE 12000		9.0	11.4	16.9	18.0	19.2	20.0	21.0	21.5	21.7	22.1	22.2	22.3	22.4	22.6	22.9
GE 10000		9.5	12.2	17.8	19.1	20.2	21.2	22.3	22.8	23.0	23.4	23.5	23.6	23.7	23.8	24.2
GE 9000		9.9	12.6	18.1	19.4	20.6	21.5	22.7	23.1	23.4	23.7	23.8	24.0	24.1	24.2	24.5
GE 8000		11.9	14.7	20.8	22.4	23.7	24.8	26.2	26.6	26.9	27.2	27.3	27.6	27.8	28.3	28.6
GE 7000		13.8	16.9	23.3	24.9	26.2	27.2	28.8	29.3	29.7	30.0	30.1	30.3	30.6	31.0	31.4
GE 6000		13.8	16.9	23.3	24.9	26.2	27.2	28.8	29.3	29.7	30.0	30.1	30.3	30.6	31.0	31.4
GE 5000		14.4	17.7	24.8	26.4	28.0	29.1	30.8	31.3	31.6	32.0	32.1	32.3	32.6	33.0	33.4
GE 4500		15.0	18.4	25.9	27.7	29.3	30.5	32.4	32.9	33.3	33.6	33.7	34.0	34.2	34.7	35.0
GE 4000		16.4	20.0	28.4	30.3	32.0	33.1	35.1	35.6	35.9	36.3	36.4	36.6	37.0	37.4	37.8
GE 3500		17.7	21.6	30.2	32.4	34.1	35.6	37.6	38.0	38.4	38.7	38.8	39.1	39.4	39.9	40.2
GE 3000		19.4	23.6	32.7	35.5	37.1	39.1	41.0	41.6	42.0	42.3	42.4	42.7	43.0	43.5	43.8
GE 2500		22.0	26.2	35.9	38.8	40.6	42.9	45.3	45.9	46.3	46.6	46.7	47.0	47.3	47.8	48.1
GE 2000		25.0	29.5	40.3	44.8	46.9	49.5	52.4	53.0	53.5	53.8	54.0	54.3	54.7	55.1	55.5
GE 1800		25.6	31.1	40.9	45.6	47.8	50.5	53.4	54.0	54.4	54.8	54.9	55.2	55.6	56.0	56.4
GE 1500		27.4	32.2	43.8	49.7	52.4	55.5	58.5	59.2	60.1	60.7	60.8	61.2	61.9	62.3	62.7
GE 1200		28.6	33.5	45.9	53.3	56.2	59.4	62.7	63.5	65.7	66.4	66.5	66.9	67.8	68.3	68.6
GE 1000		29.1	34.2	47.9	56.2	59.3	62.7	66.3	67.1	69.7	70.5	70.6	71.0	72.2	72.7	73.0
GE 900		29.1	34.2	48.1	56.5	59.7	63.3	67.0	67.8	70.8	71.6	71.7	72.2	73.4	73.8	74.2
GE 800		29.4	34.5	49.1	58.4	61.7	65.3	69.3	70.1	73.7	74.5	74.6	75.3	76.6	77.1	77.4
GE 700		29.8	35.0	49.5	60.0	63.6	67.9	72.6	73.5	77.4	78.5	78.7	79.3	80.6	81.0	81.4
GE 600		30.0	35.5	50.2	61.0	64.6	69.2	74.3	75.3	79.3	80.5	80.7	81.4	82.8	83.3	83.6
GE 500		30.2	35.7	50.8	61.6	65.6	70.5	76.9	77.9	82.1	83.4	83.8	84.7	86.4	87.0	87.6
GE 400		30.2	35.8	51.2	62.3	66.6	71.6	78.5	79.8	84.9	86.5	87.2	88.1	89.9	90.5	91.0
GE 300		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.4	87.1	89.1	90.6	92.1	94.4	95.0	95.9
GE 200		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.4	89.5	91.2	92.9	96.4	97.2	99.1
GE 100		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.7	89.8	91.4	93.1	96.7	97.6	99.7
GE 0		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.7	89.8	91.4	93.1	96.7	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 860

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFH

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.4	13.2	15.7	16.6	17.6	18.2	18.2	18.2	18.4	18.6	18.6	18.6	18.6	18.6	18.6
GE 20000		13.6	15.6	19.4	20.3	21.5	22.1	22.1	22.1	22.6	22.7	22.7	22.7	22.7	22.7	22.7
GE 18000		14.1	16.5	20.7	21.9	23.0	23.6	23.6	23.6	24.1	24.2	24.2	24.2	24.2	24.2	24.2
GE 16000		14.1	16.5	20.9	22.1	23.3	23.9	23.9	23.9	24.3	24.4	24.4	24.4	24.4	24.4	24.4
GE 14000		14.1	16.5	21.0	22.2	23.4	24.0	24.0	24.0	24.4	24.6	24.6	24.6	24.6	24.6	24.6
GE 12000		14.1	16.6	21.3	22.4	23.7	24.3	24.3	24.3	24.6	24.9	24.9	24.9	24.9	24.9	24.9
GE 10000		14.7	17.3	22.1	23.3	24.6	25.4	25.4	25.4	25.9	26.0	26.0	26.0	26.0	26.0	26.0
GE 9000		14.8	17.4	22.8	24.0	25.3	26.3	26.3	26.3	27.0	27.1	27.1	27.1	27.1	27.1	27.1
GE 8000		17.7	20.7	26.7	28.6	29.8	31.1	31.1	31.1	31.6	32.0	32.0	32.0	32.0	32.0	32.0
GE 7000		19.0	22.1	28.2	30.6	32.0	33.3	33.3	33.3	34.3	34.4	34.4	34.4	34.4	34.4	34.4
GE 6000		19.3	22.3	28.4	30.6	32.2	33.5	33.5	33.5	34.5	34.7	34.7	34.7	34.7	34.7	34.7
GE 5000		20.6	24.0	30.4	32.9	34.3	35.7	35.7	35.7	36.8	36.9	36.9	36.9	36.9	36.9	36.9
GE 4500		21.6	25.0	31.5	34.0	35.4	36.8	36.8	36.8	37.8	38.0	38.0	38.0	38.0	38.0	38.0
GE 4000		23.1	26.8	34.0	36.5	38.1	39.8	39.8	39.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0
GE 3500		25.4	29.1	36.4	39.0	40.5	42.3	42.3	42.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5
GE 3000		30.2	34.1	42.2	45.1	46.7	48.5	48.5	48.5	49.6	49.7	49.7	49.7	49.7	49.7	49.7
GE 2500		33.5	37.6	45.9	49.7	51.2	53.2	53.2	53.2	54.5	54.6	54.6	54.6	54.6	54.6	54.6
GE 2000		35.8	40.1	49.5	54.2	56.3	58.5	59.0	59.0	60.5	60.6	60.6	60.6	60.6	60.6	60.6
GE 1800		36.3	40.5	50.1	55.0	57.2	59.7	60.2	60.2	61.7	61.8	61.8	61.8	61.8	61.8	61.8
GE 1500		38.7	42.9	54.3	60.2	62.5	65.3	65.8	65.9	67.6	67.7	67.8	67.8	67.9	67.9	67.9
GE 1200		39.8	44.4	57.6	64.5	67.0	70.0	70.5	70.7	72.6	72.7	73.0	73.2	73.3	73.3	73.3
GE 1000		40.7	45.2	59.8	68.0	70.7	74.1	74.9	75.1	77.6	77.7	78.0	78.4	78.5	78.5	78.5
GE 900		41.0	45.6	60.6	69.3	72.0	75.7	76.4	76.6	79.2	79.3	79.7	80.1	80.3	80.3	80.3
GE 800		41.2	45.8	61.7	70.7	73.9	77.8	78.5	78.8	81.9	82.1	82.5	83.0	83.2	83.2	83.2
GE 700		41.2	45.9	62.2	71.8	75.2	79.6	81.2	81.6	84.8	85.3	85.8	86.3	86.8	86.8	86.8
GE 600		41.4	46.1	62.4	72.3	75.8	80.4	82.3	82.8	86.1	86.7	87.2	87.7	88.4	88.4	88.4
GE 500		41.5	46.4	62.9	72.9	76.6	81.4	84.4	85.3	88.8	89.4	89.9	90.6	91.3	91.3	91.5
GE 400		41.5	46.4	62.9	73.1	77.7	82.6	86.5	88.0	92.0	92.8	93.3	94.0	94.7	94.7	95.1
GE 300		41.5	46.4	62.9	73.1	77.7	82.6	86.8	88.5	92.8	93.7	94.5	95.3	96.6	96.7	97.2
GE 200		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	99.6
GE 100		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	100.0
GE 0		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 851

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM FOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		11.7	13.5	17.9	18.6	18.8	19.3	19.5	19.5	19.5	19.5	19.8	19.8	19.9	19.9	20.0	
GE 20000		13.7	15.6	20.9	21.7	22.0	22.5	23.1	23.1	23.1	23.1	23.3	23.3	23.5	23.5	23.7	
GE 18000		14.7	16.8	22.9	23.8	24.2	24.6	25.2	25.2	25.2	25.2	25.5	25.5	25.6	25.6	25.8	
GE 16000		14.7	16.8	22.9	24.2	24.5	25.0	25.6	25.6	25.6	25.6	25.8	25.8	25.9	25.9	26.2	
GE 14000		14.7	16.8	23.0	24.3	24.6	25.1	25.7	25.7	25.7	25.7	25.9	25.9	26.1	26.1	26.3	
GE 12000		14.7	16.9	23.1	24.4	24.6	25.2	25.8	25.8	25.8	25.8	26.1	26.1	26.2	26.2	26.4	
GE 10000		15.3	17.7	23.9	25.4	25.8	26.4	27.0	27.0	27.0	27.0	27.3	27.3	27.4	27.4	27.6	
GE 9000		16.0	18.4	24.8	26.2	26.7	27.8	28.4	28.4	28.4	28.4	28.7	28.7	28.8	28.8	29.0	
GE 8000		16.5	21.3	29.6	31.0	31.6	32.9	33.6	33.8	33.8	33.8	34.0	34.0	34.1	34.1	34.4	
GE 7000		19.5	22.7	31.9	33.4	34.0	35.3	36.1	36.1	36.3	36.3	36.5	36.5	36.6	36.6	36.8	
GE 6000		19.7	22.9	32.1	33.6	34.2	35.5	36.4	36.4	36.5	36.5	36.7	36.7	36.8	36.8	37.1	
GE 5000		20.5	24.3	34.0	35.7	36.3	37.6	38.4	38.4	38.5	38.5	38.9	38.9	39.0	39.0	39.2	
GE 4500		21.3	25.1	35.0	36.6	37.2	38.5	39.3	39.3	39.5	39.5	39.8	39.8	39.9	39.9	40.2	
GE 4000		23.3	27.5	37.7	39.9	40.5	41.8	42.7	42.8	43.0	43.0	43.4	43.4	43.5	43.5	43.7	
GE 3500		25.6	29.9	40.3	42.8	43.4	44.7	45.5	45.6	45.9	45.9	46.2	46.2	46.3	46.3	46.6	
GE 3000		29.3	33.9	45.3	49.2	46.8	50.6	51.5	51.8	52.1	52.1	52.5	52.5	52.6	52.6	52.8	
GE 2500		32.1	37.0	48.7	52.4	53.1	55.1	56.0	56.4	56.8	56.8	57.2	57.2	57.3	57.3	57.6	
GE 2000		35.0	39.9	52.5	57.0	57.4	60.4	62.0	62.3	63.0	63.0	63.5	63.5	63.6	63.6	63.9	
GE 1800		35.4	40.5	53.9	58.6	59.6	62.1	63.6	64.0	64.7	64.7	65.2	65.2	65.3	65.3	65.5	
GE 1500		38.0	43.5	57.6	63.2	64.3	66.9	68.8	69.3	70.1	70.1	70.6	70.6	70.7	70.7	71.0	
GE 1200		38.7	44.5	60.2	66.4	68.2	71.4	73.5	74.2	75.4	75.4	75.8	75.8	75.9	75.9	76.2	
GE 1000		39.2	45.3	61.7	68.4	70.4	74.3	76.4	77.1	78.6	79.3	80.0	80.0	80.1	80.1	80.3	
GE 900		39.6	45.7	63.3	70.3	72.3	76.4	78.8	79.6	81.5	82.2	82.9	82.9	83.4	83.4	83.6	
GE 800		39.6	45.7	64.0	71.2	73.3	77.6	80.5	81.4	83.4	84.2	85.0	85.1	85.5	85.5	85.8	
GE 700		40.0	46.3	65.0	72.5	74.6	79.1	82.3	83.5	85.7	86.7	87.4	87.6	88.3	88.3	88.5	
GE 600		40.0	46.3	65.4	73.2	75.6	80.5	84.4	85.7	88.0	89.1	89.8	89.9	90.8	90.8	91.0	
GE 500		40.0	46.3	65.4	73.6	76.2	81.6	85.9	87.4	89.8	91.0	91.7	91.8	92.7	92.7	92.9	
GE 400		40.0	46.3	65.4	73.7	76.3	82.2	86.7	88.4	90.8	92.1	93.1	93.5	94.7	94.7	94.9	
GE 300		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.1	93.5	94.7	95.7	96.9	97.0	97.4	
GE 200		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.3	99.8	
GE 100		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.5	99.9	
GE 0		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 844

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

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

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VISIBILITY IN HUNDREDS OF METERS

IN FEET	GE 16.0	GE 9.0	GE 8.0	GE 6.0	GE 4.8	GE 4.0	GE 3.2	GE 2.4	GE 2.0	GE 1.6	GE 1.2	GE 1.0	GE .8	GE .5	GE .4	GE .3
NO CEIL	9.2	10.7	14.4	16.9	17.9	19.0	19.5	19.5	20.1	20.1	20.2	20.3	20.6	20.8	21.3	
GE 20000	9.7	11.3	15.4	18.2	19.1	20.3	20.9	20.9	21.5	21.5	21.8	21.9	22.3	22.5	23.1	
GE 18000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 16000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 14000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 12000	10.2	11.7	16.8	20.0	20.9	22.2	22.8	22.8	23.4	23.4	23.6	23.7	24.3	24.6	25.2	
GE 10000	10.7	12.2	17.7	20.8	21.8	23.0	23.6	23.6	24.2	24.2	24.5	24.6	25.2	25.4	26.0	
GE 9000	10.8	12.3	18.0	21.2	22.2	23.6	24.2	24.2	24.8	24.8	25.1	25.2	25.8	26.0	26.6	
GE 8000	12.7	14.4	21.5	25.1	26.0	27.6	28.8	28.8	29.4	29.4	29.9	30.0	30.6	30.9	31.5	
GE 7000	13.2	15.1	23.4	26.9	27.8	29.4	30.8	30.8	31.6	31.6	32.1	32.2	32.8	33.1	33.7	
GE 6000	13.3	15.4	23.7	27.2	28.2	29.8	31.1	31.1	32.0	32.0	32.4	32.6	33.2	33.4	34.0	
GE 5000	14.5	16.7	25.5	29.3	30.3	31.8	33.2	33.2	34.0	34.0	34.5	34.6	35.2	35.5	36.1	
GE 4500	15.6	17.8	26.8	30.9	31.8	33.4	34.7	34.7	35.6	35.6	36.2	36.3	37.0	37.3	37.9	
GE 4000	17.2	19.6	28.8	34.1	35.2	36.8	38.1	38.3	39.2	39.5	40.1	40.2	40.9	41.2	41.8	
GE 3500	20.8	23.2	32.6	38.3	39.3	40.9	42.3	42.4	43.3	43.6	44.2	44.3	45.0	45.3	45.9	
GE 3000	24.3	27.0	37.3	43.1	44.2	46.1	47.5	47.6	48.5	48.8	49.5	49.6	50.4	50.6	51.2	
GE 2500	26.8	29.7	40.4	46.5	47.7	49.9	51.9	52.1	53.0	53.3	54.0	54.1	54.8	55.1	55.7	
GE 2000	28.9	31.8	45.9	52.7	54.1	56.9	59.0	59.1	60.0	60.3	61.0	61.1	61.9	62.1	62.7	
GE 1800	29.4	32.4	47.0	54.0	55.4	58.5	60.5	60.7	61.6	61.9	62.6	62.7	63.4	63.7	64.3	
GE 1500	30.9	34.4	50.4	58.2	59.9	63.9	67.6	67.8	68.8	69.0	69.7	69.9	70.6	70.8	71.4	
GE 1000	31.2	35.2	51.9	60.4	63.0	67.3	71.2	71.5	72.6	73.0	73.7	73.8	74.7	74.9	75.5	
GE 1000	31.6	35.8	53.5	62.1	64.8	70.0	74.1	74.7	76.0	76.5	77.2	77.5	78.5	78.7	79.3	
GE 900	31.6	35.8	54.0	62.7	65.4	70.7	75.3	75.9	77.6	78.2	78.9	79.2	80.4	80.6	81.2	
GE 800	31.8	36.0	54.4	63.7	66.3	71.8	76.8	77.4	79.1	79.7	80.4	81.0	82.3	82.6	83.2	
GE 700	32.2	36.6	55.0	64.6	67.3	73.4	78.5	79.4	81.2	81.8	82.6	83.2	84.6	85.0	85.6	
GE 600																

TOTAL NUMBER OF OBSERVATIONS: 826

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0	
NO CEIL	8.5	10.5	14.5	16.7	17.9	18.5	20.2	20.2	20.6	21.0	21.0	21.0	21.2	21.7	22.6		
GE 2000	8.6	10.8	14.8	17.2	18.5	19.5	21.2	21.2	21.6	22.0	22.0	22.0	22.2	22.8	23.7		
GE 1800	9.1	11.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2		
GE 1600	9.1	11.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2		
GE 1400	9.1	11.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2		
GE 1200	9.1	11.3	16.3	18.9	20.2	21.2	22.9	22.9	23.3	23.7	23.7	23.7	23.9	24.4	25.3		
GE 1000	9.3	11.4	16.7	19.3	20.7	22.0	23.7	23.7	24.0	24.4	24.4	24.4	24.7	25.2	26.1		
GE 900	9.3	11.4	16.8	19.4	20.8	22.1	23.8	23.8	24.2	24.6	24.6	24.6	24.8	25.3	26.2		
GE 800	10.7	12.9	18.6	21.7	23.1	24.4	26.5	26.5	26.9	27.2	27.4	27.4	27.6	28.1	29.0		
GE 700	11.4	13.6	20.3	23.4	24.8	26.1	28.1	28.1	28.5	28.9	29.0	29.0	29.3	29.8	30.7		
GE 600	11.6	13.8	20.4	23.5	24.9	26.2	28.3	28.3	28.7	29.0	29.2	29.2	29.4	29.9	30.8		
GE 500	12.9	15.0	22.5	25.6	27.0	28.3	30.3	30.3	30.7	31.1	31.2	31.4	31.6	32.1	33.0		
GE 450	13.6	15.8	23.8	26.9	28.5	29.8	31.9	31.9	32.3	32.6	32.8	32.9	33.2	33.7	34.6		
GE 400	16.8	19.0	27.6	31.5	33.2	34.6	36.9	36.9	37.3	37.9	38.2	38.3	38.6	39.1	40.0		
GE 350	18.8	21.0	29.8	33.8	35.9	37.4	39.7	39.7	40.1	40.7	41.0	41.1	41.4	41.9	42.8		
GE 300	22.2	25.2	35.5	40.0	42.2	44.0	46.5	46.5	47.0	47.8	48.2	48.5	48.8	49.5	50.4		
GE 250	23.9	27.1	38.6	43.2	45.5	47.9	50.9	50.9	51.4	52.2	52.6	52.8	53.2	53.9	54.8		
GE 200	26.5	29.7	44.0	49.7	52.3	55.4	58.7	58.7	59.3	60.0	60.4	60.7	61.1	61.7	62.6		
GE 180	26.6	29.6	44.6	50.4	53.0	56.2	59.5	59.5	60.0	60.8	61.2	61.4	61.8	62.5	63.4		
GE 150	28.5	31.9	47.8	55.0	57.7	61.4	65.4	65.4	66.2	67.0	67.5	67.7	68.1	68.8	69.7		
GE 120	29.0	32.8	49.5	57.6	60.3	65.2	69.7	69.8	70.7	71.5	72.0	72.2	72.6	73.3	74.2		
GE 100	29.6	33.7	51.9	60.7	63.5	69.2	74.0	74.3	75.3	76.1	76.6	76.9	77.5	78.1	79.0		
GE 90	29.8	33.7	52.2	60.9	64.1	69.8	74.9	75.2	76.3	77.1	77.9	78.1	78.8	79.4	80.3		
GE 80	29.8	33.8	52.3	61.4	64.7	70.8	76.1	76.3	77.5	78.3	79.2	79.4	80.1	80.7	81.6		
GE 70	30.5	34.4	53.1	62.6	65.9	72.1	77.9	78.1	79.6	80.3	81.2	81.5	82.1	82.8	83.7		
GE 60	30.5	34.4	53.3	63.4	66.7	73.0	79.0	79.3	80.7	81.6	82.5	82.8	83.9	84.6	85.5		
GE 50	30.6	34.6	53.9	63.9	67.2	74.2	80.6	80.8	82.6	84.4	85.9	87.1	87.8	89.3	90.9		
GE 40	30.6	34.6	54.2	64.4	67.9	74.8	82.1	82.6	84.4	85.9	87.1	87.8	89.3	90.9	92.5		
GE 30	30.6	34.6	54.2	64.5	68.0	75.2	83.8	84.8	86.6	88.0	89.7	90.6	92.9	94.1	95.5		
GE 20	30.6	34.6	54.2	64.5	68.0	75.2	83.6	85.0	87.4	88.9	90.9	92.3	95.0	96.9	98.8		
GE 10	30.6	34.6	54.2	64.5	68.0	75.2	83.6	85.0	87.4	88.9	90.9	92.4	95.2	97.4	99.9		
GE 0	30.6	34.6	54.2	64.5	68.0	75.2	83.9	85.0	87.4	88.9	90.9	92.4	95.4	97.6	100.0		

TOTAL NUMBER OF OBSERVATIONS: 778

GLOBAL CLIMATOLOGY BRANCH
USAF/ATC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GFH

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL		9.3	10.9	14.1	16.2	16.9	17.8	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.8	20.1	
GE 2000		10.2	11.9	15.7	18.0	18.7	19.7	20.7	20.9	21.1	21.2	21.5	21.6	21.8	22.0	22.4	
GE 1800		10.6	12.5	16.8	19.2	19.9	20.9	21.9	22.1	22.4	22.5	22.8	22.9	23.1	23.3	23.6	
GE 1600		10.6	12.5	16.8	19.3	20.0	21.0	22.0	22.2	22.5	22.6	22.9	23.0	23.2	23.4	23.9	
GE 1400		10.6	12.5	16.9	19.3	20.1	21.0	22.1	22.2	22.5	22.6	23.0	23.0	23.3	23.5	23.9	
GE 1200		10.7	12.6	17.0	19.5	20.3	21.2	22.3	22.4	22.8	22.9	23.2	23.3	23.5	23.7	24.1	
GE 1000		11.3	13.3	17.8	20.4	21.2	22.3	23.4	23.5	23.9	24.0	24.3	24.4	24.6	24.8	25.3	
GE 900		11.6	13.5	18.2	20.8	21.7	22.8	24.0	24.1	24.5	24.6	24.9	25.0	25.2	25.4	25.9	
GE 800		13.2	15.3	20.7	23.5	24.5	25.7	27.2	27.4	27.7	27.8	28.2	28.3	28.6	28.8	29.3	
GE 700		14.2	16.4	22.2	25.2	26.1	27.4	29.0	29.1	29.6	29.7	30.1	30.2	30.5	30.7	31.2	
GE 600		14.3	16.5	22.4	25.3	26.3	27.6	29.2	29.3	29.8	29.9	30.3	30.4	30.7	30.9	31.4	
GE 500		15.2	17.6	24.0	27.1	28.0	29.4	31.0	31.1	31.6	31.7	32.1	32.2	32.5	32.7	33.2	
GE 450		16.1	18.6	25.3	28.5	29.5	30.9	32.6	32.7	33.2	33.3	33.7	33.8	34.1	34.4	34.8	
GE 400		17.9	20.6	27.8	31.4	32.5	33.9	35.6	35.8	36.3	36.5	36.9	37.1	37.4	37.6	38.1	
GE 350		19.7	22.5	30.1	34.0	35.1	36.7	38.5	38.7	39.2	39.4	39.8	39.9	40.2	40.5	40.9	
GE 300		23.3	26.5	35.1	39.3	40.5	42.6	44.5	44.7	45.3	45.5	46.0	46.3	46.6	46.9	47.5	
GE 250		25.4	28.7	37.9	42.6	43.9	46.1	48.3	48.6	49.2	49.4	50.0	50.2	50.6	50.8	51.3	
GE 200		28.3	31.8	42.9	48.4	50.2	52.8	55.4	55.7	56.5	56.7	57.3	57.5	57.9	58.2	58.6	
GE 180		28.9	32.5	44.0	49.7	51.5	54.2	56.6	57.1	57.9	58.1	58.7	59.0	59.3	59.6	60.1	
GE 150		30.7	34.6	47.1	53.9	55.9	59.0	62.1	62.5	63.5	63.8	64.4	64.7	65.1	65.3	65.8	
GE 120		31.7	36.0	49.7	57.3	59.6	63.3	66.8	67.4	68.8	69.1	69.8	70.0	70.5	70.8	71.2	
GE 100		32.7	37.0	51.8	60.2	62.7	67.0	70.9	71.5	73.3	73.8	74.4	74.8	75.3	75.6	76.1	
GE 90		32.9	37.2	52.5	61.2	63.6	68.3	72.5	73.2	75.1	75.6	76.4	76.7	77.4	77.7	78.2	
GE 80		33.0	37.5	53.2	62.5	65.3	69.9	74.3	75.0	77.1	77.7	78.4	78.9	79.7	80.0	80.5	
GE 70		33.4	38.0	54.1	63.9	66.8	71.6	76.7	77.6	79.9	80.6	81.4	81.8	82.7	83.1	83.5	
GE 60		33.4	38.1	54.4	64.8	68.0	73.2	78.5	79.5	82.1	82.8	83.6	84.2	85.2	85.6	86.0	
GE 50		33.5	38.2	54.7	65.2	68.6	74.3	80.4	81.5	84.3	85.2	86.2	86.9	88.0	88.4	88.9	
GE 40		33.5	38.3	54.9	65.6	69.3	75.3	82.0	83.4	86.5	87.5	88.7	89.4	90.7	91.1	91.7	
GE 30		33.5	38.3	54.9	65.7	69.4	75.7	83.1	84.8	88.3	89.4	90.9	92.0	93.6	94.2	95.1	
GE 20		33.5	38.3	54.9	65.7	69.4	75.8	83.4	85.3	89.1	90.5	92.3	93.8	96.2	97.2	98.7	
GE 10		33.5	38.3	54.9	65.8	69.4	75.8	83.5	85.4	89.2	90.6	92.4	94.1	96.6	97.9	99.8	
GE 0		33.5	38.3	54.9	65.8	69.4	75.8	83.5	85.5	89.2	90.6	92.5	94.1	96.7	97.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 6567

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87

MONTH: ALL HOURS(IST): ALL

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN FEET	1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0	
NO CEIL	1	20.2	22.4	27.3	29.5	30.1	31.3	32.2	32.4	33.0	33.1	33.3	33.5	33.9	34.2	34.7	
GE 20000	1	23.0	25.6	31.1	33.5	34.2	35.5	36.5	36.7	37.4	37.5	37.7	38.0	38.4	38.7	39.2	
GE 16000	1	23.6	26.2	31.9	34.4	35.0	36.4	37.4	37.6	38.3	38.4	38.7	38.9	39.4	39.6	40.2	
GE 14000	1	23.6	26.3	32.0	34.4	35.1	36.5	37.5	37.7	38.4	38.5	38.7	39.0	39.4	39.7	40.3	
GE 12000	1	23.8	26.4	32.1	34.6	35.3	36.7	37.7	37.9	38.6	38.7	38.9	39.2	39.6	39.9	40.5	
GE 10000	1	24.2	26.9	32.7	35.2	35.9	37.3	38.4	38.6	39.3	39.4	39.6	39.9	40.3	40.6	41.2	
GE 10000	1	25.7	28.5	34.7	37.3	38.1	39.5	40.6	40.8	41.6	41.7	42.0	42.2	42.7	42.9	43.5	
GE 9000	1	26.2	29.1	35.4	38.0	38.8	40.3	41.4	41.6	42.4	42.5	42.7	43.0	43.5	43.7	44.3	
GE 8000	1	28.8	32.0	38.9	41.8	42.6	44.3	45.5	45.8	46.6	46.7	47.0	47.3	47.7	48.0	48.6	
GE 7000	1	30.4	33.7	41.1	44.2	45.1	46.9	48.2	48.4	49.3	49.5	49.7	50.0	50.5	50.8	51.4	
GE 6000	1	30.7	34.1	41.5	44.7	45.5	47.4	48.6	48.9	49.8	50.0	50.2	50.5	51.0	51.3	51.9	
GE 5000	1	32.6	36.2	44.0	47.3	48.2	50.1	51.5	51.8	52.7	52.9	53.2	53.4	53.9	54.2	54.9	
GE 4500	1	33.9	37.5	45.8	49.2	50.2	52.2	53.7	54.0	54.9	55.1	55.4	55.7	56.2	56.5	57.1	
GE 4000	1	37.1	41.0	50.0	53.8	54.8	57.0	58.6	58.9	59.9	60.1	60.4	60.7	61.2	61.6	62.2	
GE 3500	1	39.1	43.2	52.6	56.5	57.6	59.9	61.6	61.9	62.9	63.1	63.5	63.8	64.3	64.6	65.3	
GE 3000	1	43.4	47.9	58.2	62.6	63.9	66.4	68.2	68.6	69.8	70.0	70.4	70.7	71.3	71.6	72.2	
GE 2500	1	45.0	49.6	60.6	65.2	66.5	69.2	71.2	71.6	72.8	73.0	73.4	73.7	74.3	74.6	75.3	
GE 2000	1	46.8	51.8	63.7	68.8	70.3	73.3	75.5	75.9	77.3	77.5	77.9	78.2	78.8	79.2	79.8	
GE 1800	1	47.2	52.2	64.4	69.6	71.1	74.2	76.3	76.8	78.2	78.4	78.8	79.2	79.8	80.1	80.8	
GE 1500	1	48.4	53.7	66.6	72.3	73.9	77.3	79.8	80.3	81.8	82.1	82.5	82.8	83.4	83.8	84.4	
GE 1200	1	49.1	54.6	68.2	74.4	76.3	80.0	82.7	83.3	84.9	85.2	85.7	86.0	86.7	87.0	87.6	
GE 1000	1	49.5	55.0	69.2	75.8	77.7	81.7	84.7	85.3	87.2	87.5	88.0	88.4	89.1	89.4	90.1	
GE 950	1	49.5	55.1	69.5	76.2	78.2	82.4	85.4	86.1	88.0	88.4	88.9	89.3	89.9	90.3	90.9	
GE 800	1	49.6	55.3	69.9	76.8	78.8	83.1	86.2	86.9	88.9	89.3	89.9	90.3	91.0	91.3	92.0	
GE 700	1	49.7	55.3	70.1	77.2	79.3	83.8	87.1	87.8	90.0	90.4	91.0	91.4	92.1	92.5	93.2	
GE 600	1	49.7	55.4	70.3	77.5	79.7	84.4	87.9	88.7	90.9	91.4	92.0	92.5	93.3	93.6	94.3	
GE 500	1	49.7	55.4	70.4	77.7	80.0	84.8	88.6	89.4	91.9	92.4	93.1	93.7	94.5	94.9	95.6	
GE 400	1	49.8	55.5	70.5	77.8	80.2	85.1	89.0	90.0	92.6	93.2	94.0	94.6	95.5	95.9	96.6	
GE 300	1	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.2	93.0	93.7	94.6	95.3	96.3	96.8	97.6	
GE 200	1	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.3	93.2	93.9	94.9	95.7	97.1	97.7	98.9	
GE 100	1	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.4	93.2	93.9	94.9	95.8	97.3	98.0	99.7	
GE 0	1	49.6	55.5	70.5	77.8	80.2	85.2	89.4	90.4	93.3	94.0	95.0	95.8	97.3	98.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 86035

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-82
MONTH: JAN

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							6.7			13.3	80.0	9.6	15
03-05									11.1		88.9	9.8	9
06-08					11.1						88.9	9.3	9
09-11				5.3	10.5	10.5	5.3				68.4	8.3	19
12-14										25.0	75.0	9.8	4
15-17	5.9				5.9					23.5	64.7	8.8	17
18-20				9.1	9.1		9.1		9.1	9.1	54.5	8.2	11
21-23						14.3	14.3			14.3	57.1	8.6	7
TOTALS	.7			1.8	4.6	3.1	4.4		2.5	10.7	72.2	9.1	91

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-83,85-87
MONTH: FEB

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	16.7										83.3	8.3	6
03-05	12.5			12.5			12.5				62.5	7.4	8
06-08				7.1		7.1				7.1	78.6	9.1	14
09-11		14.3		14.3						14.3	57.1	7.6	7
12-14		25.0									75.0	7.8	4
15-17	14.3			7.1			7.1			28.6	42.9	7.5	14
18-20		14.3		14.3		14.3	28.6				28.6	5.9	7
21-23	14.3	14.3		14.3	14.3						42.9	5.4	7
TOTALS	7.2	8.5		6.7	1.8	2.7	6.0			6.3	58.9	7.4	67

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-83
MONTH: MAR

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		10.0			10.0		10.0				70.0	8.1	10
03-05	25.0									12.5	62.5	7.4	8
06-08					12.5					12.5	75.0	9.1	8
09-11					14.3	14.3	14.3			14.3	42.9	7.7	7
12-14	9.1				9.1					9.1	72.7	8.5	11
15-17				6.7						20.0	73.3	9.3	15
18-20							42.9				57.1	8.3	7
21-23					25.0					12.5	62.5	8.4	8
TOTALS	4.3	1.3		.8	8.9	1.8	8.4			10.1	64.5	8.4	74

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-81
MONTH: Apr

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	54.5	9.1									36.4	3.7	11
03-05	33.3	11.1									55.6	5.7	9
06-08		16.7							16.7		66.7	8.2	6
09-11										40.0	60.0	9.6	5
12-14	12.5				25.0		12.5			25.0	25.0	6.5	8
15-17					12.5	12.5				25.0	50.0	8.4	8
18-20											100.0	10.0	1
21-23	25.0	25.0		25.0							25.0	3.5	4
TOTALS	15.7	7.7		5.1	4.7	1.6	1.6		2.1	11.3	52.3	7.0	52

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 80-81
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				22.2	22.2				22.2	11.1	22.2	6.6	9
03-05	9.1	18.2					9.1		18.2	9.1	36.4	6.6	11
06-08	7.1	14.3			14.3					28.6	35.7	6.9	14
09-11		20.0				20.0	10.0		20.0		30.0	6.4	10
12-14		12.5		12.5			12.5		25.0	12.5	25.0	6.9	8
15-17	10.0			10.0		20.0	30.0		10.0	10.0	10.0	5.8	10
18-20					28.6	14.3			28.6	14.3	14.3	6.9	7
21-23	30.0			10.0		20.0			20.0		10.0	4.4	10
TOTALS	7.0	8.1		6.8	8.1	10.5	7.7		18.0	10.7	23.0	6.3	79

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 80-81
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	25.0			16.7	8.3	8.3	8.3			8.3	25.0	5.0	12
03-05	10.0			20.0		10.0	10.0			10.0	20.0	5.6	10
06-08	9.1				18.2	9.1	9.1			18.2	36.4	7.0	11
09-11		7.7		7.7			30.8		7.7	23.1	23.1	7.2	13
12-14				6.7			6.7		26.7	33.3	26.7	8.4	15
15-17				5.3	10.5	15.8	15.8		15.8	15.8	21.1	7.1	19
18-20				7.1	7.1	14.3			21.4	14.3	35.7	7.8	14
21-23						18.2			9.1	18.2	54.5	8.7	11
TOTALS	5.5	1.0		7.9	5.5	12.0	10.1		10.1	17.7	33.3	7.1	105

GLOBAL CLIMATOLOGY BRANCH
L 5467AC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 80-81,86
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	11.1					11.1	22.2			11.1	44.4	7.3	9
03-05							7.1			14.3	78.6	9.6	14
06-08				10.0			10.0			10.0	70.0	6.8	10
09-11										14.3	85.7	9.9	7
12-14				6.3	8.3	8.3	8.3		16.7	16.7	33.3	7.7	12
15-17									9.1	27.3	63.6	9.5	11
18-20						7.7			30.8	23.1	38.5	8.6	13
21-23	7.7								7.7	7.7	76.9	9.0	13
TOTALS	2.4			2.3	1.0	3.4	6.0		8.0	15.6	61.4	8.8	89

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77,79-82
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	5.6	5.6		11.1	11.1	16.7			5.6	5.6	36.9	6.5	18
03-05					7.7		7.7		7.7	7.7	69.2	9.0	13
06-08	5.9				11.8		5.9		5.9	11.8	58.8	8.2	17
09-11		14.3		7.1	14.3		7.1		7.1	21.4	28.6	6.7	14
12-14					5.9	5.9	5.9		29.4	23.5	29.4	8.3	17
15-17				9.1	18.2	9.1	9.1		18.2	9.1	27.3	7.0	11
18-20	21.4			14.3	7.1					21.4	35.7	6.2	14
21-23	22.2	11.1				11.1				11.1	44.4	6.1	9
TOTALS	6.9	3.9		5.2	9.5	5.4	4.5		9.2	14.0	41.5	7.3	113

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-80-81,85
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	16.1	6.5		3.2	9.7	3.2	6.5		6.5	12.9	35.5	6.3	31
03-05	9.5				4.8	19.0	9.5		4.8	4.8	47.6	7.3	21
06-08	2.9	5.9		2.9	5.9	5.9	5.9		8.8	11.8	50.0	7.8	34
09-11	4.0	4.0				4.0	4.0		4.0	16.0	64.0	8.6	25
12-14	4.5	9.1			9.1	4.5	4.5		18.2	31.8	18.2	7.1	22
15-17		5.0			10.0	10.0	15.0		20.0	10.0	30.0	7.4	20
18-20	9.8	4.9		2.4	4.9	17.1	12.2		4.9	19.5	24.4	6.5	41
21-23	17.1	2.9		5.7	2.9	2.9	5.7		14.3	17.1	31.4	6.6	35
TOTALS	8.0	4.8		1.8	5.9	8.3	7.9		10.2	15.5	37.6	7.2	229

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-78,80-82,84-86
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		9.1				13.6			9.1		68.2	8.3	22
03-05	6.7	6.7		13.3		6.7	6.7				60.0	7.2	15
06-08						4.5			4.5	13.6	77.3	9.5	22
09-11							7.1		14.3	7.1	71.4	9.4	14
12-14					9.1		9.1		9.1	18.2	54.5	8.7	11
15-17						5.9	5.9		11.8	11.8	64.7	9.1	17
18-20	7.7			15.4	7.7	7.7			15.4		46.2	7.0	13
21-23		14.3								14.3	71.4	8.6	14
TOTALS	1.8	3.8		3.6	2.1	4.8	3.6		6.0	8.1	64.2	8.5	128

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-83,85-86
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	50.0										50.0	5.0	6
03-05					14.3	7.1	7.1				71.4	8.5	14
06-08					7.7	7.7	7.7		7.7	7.7	61.5	8.6	13
09-11		6.3			6.3				6.3	12.5	68.8	8.8	15
12-14						12.5			12.5	12.5	62.5	9.0	8
15-17						10.0			10.0	30.0	50.0	9.0	10
18-20					11.1	11.1					77.8	8.8	9
21-23							10.0				90.0	9.6	10
TOTALS	6.3	6.3			4.9	6.1	3.1		4.6	7.8	66.5	8.4	66

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 80-81,85-86
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					14.3						85.7	9.1	7
03-05				14.0		10.0			10.0		70.0	8.6	10
06-08						11.1				22.2	66.7	9.2	9
09-11					12.5					12.5	75.0	9.1	8
12-14						16.7					83.3	9.2	6
15-17		7.1					7.1		7.1	7.1	71.4	8.8	14
18-20											100.0	10.0	9
21-23	10.0				10.0	10.0			10.0		60.0	7.7	10
TOTALS	2.1			1.3	4.6	6.0	4.6		3.4	5.2	76.5	9.0	73

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87
MONTH: ALL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
JAN ALL	.7			1.8	4.4	3.1	4.4		2.5	10.7	72.2	9.1	91
FEB	7.2	8.5		6.7	1.8	2.7	6.0			6.3	58.9	7.4	67
MAR	4.3	1.3		.6	8.9	1.8	8.4			10.1	64.5	8.4	74
APR	15.7	7.7		3.1	4.7	1.6	1.6		2.1	11.3	52.3	7.0	52
MAY	7.0	8.1		6.8	8.1	10.5	7.7		18.0	10.7	23.0	6.3	79
JUN	5.5	1.0		7.9	5.5	12.0	10.1		10.1	17.7	30.3	7.1	105
JUL	2.4			2.3	1.0	3.4	6.0		8.0	15.6	61.4	8.8	89
AUG	6.9	3.9		5.2	9.5	5.4	4.5		9.2	14.0	41.5	7.3	113
SEP	8.0	4.8		1.8	5.9	8.3	7.9		10.2	15.5	37.6	7.2	229
OCT	1.8	3.8		3.6	2.1	4.8	3.6		8.0	8.1	64.2	8.5	128
NOV	6.3	.8			4.9	6.1	3.1		4.6	7.8	66.5	8.4	86
DEC	2.1			1.3	4.6	6.0	.9		3.4	5.2	76.5	9.0	73
TOTALS	5.7	3.3		3.6	5.1	5.5	5.4		6.3	11.1	54.1	7.9	1186

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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 COMPLETION 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 DOW 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/HAC

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

STATION NUMBER: 106870

STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-67

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 100							.1						.0
GE 95							.3						.0
GE 90						.7	3.0	1.8					.5
GE 85					.6	4.3	11.5	5.3	.3				1.9
GE 80				.4	3.5	15.3	25.9	19.0	3.6				5.7
GE 75				.9	14.5	31.3	41.8	39.0	13.5	1.2			12.0
GE 70			.6	6.3	26.2	49.3	56.9	57.9	31.6	4.4			16.8
GE 65			2.7	15.1	42.8	64.5	75.8	79.1	51.3	12.8	.1		29.0
GE 60		.1	7.7	28.0	61.9	80.9	89.5	92.5	73.7	28.9	.9		39.1
GE 55		.9	13.4	45.4	82.7	94.8	99.4	99.2	91.1	50.3	6.4		49.1
GE 50	.5	4.3	27.1	63.9	92.8	99.3	100.0	100.0	98.8	74.2	19.4	3.2	57.5
GE 45	4.5	13.5	47.1	81.0	98.6	100.0			99.9	89.3	37.8	9.7	65.6
GE 40	15.9	29.4	70.5	94.2	100.0				100.0	97.9	59.8	22.6	74.6
GE 35	38.6	58.3	90.6	99.5						99.9	82.1	49.7	85.1
GE 30	69.1	85.2	97.2	100.0						100.0	96.5	78.8	94.0
GE 25	84.3	96.2	99.2								99.6	90.8	97.5
GE 20	92.8	99.0	99.7								100.0	96.8	99.0
GE 15	97.4	100.0	100.0									99.2	99.7
GE 10	99.6											99.7	99.9
GE 5	100.0											100.0	100.0
MEAN	32.1	36.2	44.8	53.7	63.2	69.2	72.5	71.7	65.3	54.9	42.1	34.5	53.4
SD	7.849	7.043	8.929	9.605	9.292	9.358	9.417	8.209	8.057	8.243	7.673	7.460	16.695
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	745	9080

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 1C687C

STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 65					.1		.1						.0
GE 60					.3	1.2	4.1	3.0					.7
GE 55					2.1	13.2	24.5	22.3	5.1	.4			5.7
GE 50			.3	.3	14.2	44.0	60.8	55.2	22.8	6.1	.7		17.2
GE 45		.1	1.3	5.5	36.4	71.3	83.6	79.5	49.4	17.2	2.9	.9	29.3
GE 40	1.2	.9	4.2	18.5	61.5	88.4	96.2	93.8	72.4	34.8	10.0	3.9	40.9
GE 35	6.8	7.8	19.1	42.4	85.3	98.7	99.7	98.8	88.3	61.4	30.7	12.6	54.7
GE 30	12.9	16.0	28.3	51.7	89.9	99.2	100.0	99.6	94.0	68.9	41.5	19.8	60.6
GE 25	30.5	32.9	50.8	74.7	96.5	100.0		100.0	98.4	83.5	63.3	41.3	73.0
GE 20	51.4	53.0	76.0	94.0	99.5								
GE 15	64.7	67.7	86.1	98.8	100.0								
GE 10	74.9	78.6	92.6	100.0									
GE 5	82.8	86.1	95.4										
GE 0	88.2	90.6	96.9										
GE -5	93.2	94.0	98.5										
GE -10	95.0	95.9	99.0										
GE -15	98.0	98.2	99.6										
GE -20	98.9	99.6	99.7										
GE -25	100.0	100.0	100.0										
MEAN	21.3	22.3	27.9	33.6	41.7	47.6	50.3	49.5	43.8	36.9	31.2	25.0	35.4
SD	12.418	11.746	9.131	6.421	6.746	6.024	5.577	5.959	6.829	7.423	7.202	10.748	13.097
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9080

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

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

STATION NUMBER: 1C687C

STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

TEMP (F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 8C							.1						.1
GE 75							1.2	.4					.1
GE 70					.5	3.1	11.5	7.1	.1				1.4
GE 65					3.2	21.1	33.8	26.5	4.7				7.5
GE 60				.8	15.4	45.5	60.2	56.8	22.2	1.7			17.1
GE 55			.5	5.8	37.7	73.7	86.4	87.0	50.5	10.6	.3		29.7
GE 50		.3	4.9	26.2	67.7	95.1	99.2	98.2	81.0	30.7	3.6	.3	41.8
GE 45	.7	1.4	12.1	45.6	91.4	99.6	100.0	100.0	96.9	57.9	12.3	3.2	52.2
GE 40	6.1	9.1	32.9	72.4	97.5	100.0			99.9	84.4	34.5	8.8	62.6
GE 35	21.1	30.9	67.0	93.2	100.0				100.0	97.9	65.5	30.0	75.9
GE 30	50.0	57.4	86.5	99.6						99.9	88.5	61.7	87.2
GE 25	67.2	75.0	92.5	100.0						100.0	95.9	78.0	92.5
GE 20	79.2	87.9	97.0								99.1	87.3	95.5
GE 15	88.0	93.8	98.7								99.9	94.8	98.0
GE 10	92.9	97.2	99.4								100.0	97.2	98.9
GE 5	96.7	99.6	99.9									98.8	99.6
GE 0	99.1	99.9	100.0									99.6	99.9
GE -5	99.9	100.0										100.0	100.0
GE -10	100.0												100.0
MEAN	27.0	29.5	36.6	43.9	52.7	58.7	61.6	60.9	54.8	46.2	36.9	20.0	44.4
SD	9.724	8.572	7.730	6.476	6.563	6.489	6.131	5.648	5.749	6.355	6.783	8.666	14.165
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9060

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-P7

WHOLE DEGREES FAHRENHEIT													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62						87	88	91	83	76	61	43	
63	435	35	53	67	76	86	89	90	77	65	60	38	60
64	38	42	52	75	80	89	91	91	84	66	55	45	91
65	47	36	60	65	77	84	88	85	75	73	58	54	88
66	48	60	54	71	79	84	81	90	79	79	60	44	90
67	51	55	60	66	78	90	90	87	78	70	52	50	90
68	45	47	74	84	78	83	89	80	77	67	65	43	89
69	44	46	52	74	88	81	92	87	79	70	59	38	92
70	43	45	55	68	72	86	86	85	83	68	63	45	86
71	48	46	66	71	87	78	91	91	75	71	57	50	91
72	37	48	66	69	73	82	89	91	78	68	51	46	81
73	39	42	62	64	78	84	86	87	87	68	53	46	87
74	48	53	73	73	73	75	80	89	78	51	53	43	89
75	46	51	59	71	80	80	84	87	84	64	50	44	87
76	48	53	64	71	86	93	93	80	75	73	51	42	93
77	44	55	69	68	80	87	91	82	75	73	40	42	91
78	39	50	68	66	77	84	84	84	75	69	40	50	84
79	37	44	57	66	86	87	82	84	61	68	40	54	87
80	43	55	61	72	73	90	81	90	81	64	59	46	90
81	41	45	64	73	81	88	84	84	84	73	57	48	88
82	43	46	66	70	82	90	90	86	84	72	57	52	90
83	54	52	55	73	82	84	102	91	81	73	55	48	102
84	44	46	57	72	75	82	95	82	79	64	57	43	95
85	41	46	59	73	82	81	86	90	79	79	54	52	90
86	48	43	63	73	81	86	88	90	73	72	52	46	90
87	46	45	54	75	73								
MEAN	44.2	47.5	60.9	70.9	79.1	84.8	87.8	86.8	79.4	69.4	56.3	45.8	89.2
S.D.	4.535	6.022	6.331	4.274	4.609	4.140	5.081	3.659	3.988	5.701	4.099	4.285	1.856
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9080

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

GLOBAL CLIMATOLOGY BRANCH

USAFETAC

AIR WEATHER SERVICE/HAC

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GFR

PERIOD OF RECORD: 62-87

WHOLE DEGREES FAHRENHEIT

-M-D-N-Y-H-S-

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62						33	41	34	29	22	12	-15	
63	*-18	-18	-7	26	30	35	40	39	36	23	28	0	*-18
64	-9	9	9	27	31	38	34	34	27	23	28	13	-9
65	18	-3	-1	25	29	38	38	34	32	24	8	25	-3
66	-4	24	22	27	32	38	39	37	32	24	15	13	-4
67	-8	10	24	24	31	35	42	37	34	28	20	3	-8
68	-8	8	10	20	28	37	42	35	38	26	23	-1	-8
69	13	8	17	24	30	39	42	39	31	30	18	*-19	*-19
70	10	-5	3	28	30	35	39	37	28	26	24	1	-5
71	-13	10	1	23	32	35	41	44	28	23	12	19	-13
72	0	10	19	19	33	30	39	37	28	14	17	6	0
73	6	10	15	21	28	35	46	39	30	19	14	-5	-5
74	*24	26	21	24	30	37	42	42	32	28	21	*19	*19
75	23	14	17	24	30	36	37	46	37	21	3	*0	*0
76	*-4	17	3	15	21	35	35	33	33	30	28	*-9	*-9
77	45	8	12	19	32	30	*37	39	28	26	*3	*5	*3
78	*5	-9	19	19	26	32	35	32	32	26	*17	*1	-9
79	4-9	1	17	*24	24	39	33	35	*28	25	*18	*18	*-9
80	*-6	12	19	25	23	39	37	32	32	25	12	*-2	*-6
81	*-2	3	25	*19	25	37	41	36	32	28	16	*-9	*-9
82	*-18	*7	19	21	28	36	*46	39	34	28	23	*23	*-18
83	*27	-9	16	27	32	36	39	37	28	19	3	*-4	-9
84	*12	-6	10	21	28	36	36	41	34	27	23	*9	-6
85	*-20	-20	21	19	30	32	39	37	30	23	14	*-4	*-20
86	47	-13	18	19	36	36	37	37	28	27	18	*18	-13
87	*-17	-13	-18	27	28								
MEAN	2.5	3.1	12.6	22.8	29.1	35.3	38.9	37.5	31.4	24.6	17.3	5.4	*8.1
S.D.	12.169	12.563	10.532	3.529	3.353	2.780	3.109	3.482	3.090	3.708	7.291	11.422	3.822
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9080

NOTES * (BASED ON LESS THAN FULL MONTHS)

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAF/TAC
AIR WEATHER SERVICE/MAC

DRY-BULB TEMPERATURES DEG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
LST														
00-02	MEAN	24.5	23.8	32.4	36.7	45.0	51.7	53.6	53.4	47.8	41.6	34.6	30.7	40.0
	SD	11.949	11.413	8.647	6.595	7.411	6.777	5.801	6.485	7.145	7.547	7.827	8.859	11.140
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	23.7	22.2	31.2	34.8	42.8	49.3	51.3	51.3	46.0	40.5	34.0	29.9	36.3
	SD	12.277	12.606	9.531	6.812	7.348	6.837	6.155	6.797	7.739	7.669	8.149	9.227	13.083
	TOT OBS	871	846	930	885	918	899	924	930	894	930	885	805	10717
06-08	MEAN	23.7	21.8	31.7	37.8	48.2	55.3	56.8	54.7	47.9	41.0	34.1	29.6	40.5
	SD	12.471	13.679	9.692	6.880	7.663	7.108	6.568	6.837	7.461	7.635	8.090	9.504	14.693
	TOT OBS	883	846	930	887	924	900	924	930	895	930	888	856	10793
09-11	MEAN	25.7	27.3	38.1	47.0	56.9	63.5	65.7	65.0	57.3	47.7	36.9	31.6	47.2
	SD	10.990	9.131	8.002	8.082	9.056	6.915	8.392	7.098	6.996	7.117	7.352	8.329	16.396
	TOT OBS	884	846	930	891	930	900	924	930	894	930	888	860	10612
12-14	MEAN	29.3	32.9	42.9	51.8	60.8	66.9	69.6	69.9	63.3	53.3	40.3	34.7	51.6
	SD	8.468	6.419	7.756	9.776	10.080	9.663	9.630	8.122	7.872	7.480	7.319	7.132	16.551
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	29.2	33.3	43.6	52.5	61.2	67.6	70.7	70.5	63.9	53.2	39.7	33.9	51.9
	SD	8.389	6.519	7.900	10.247	10.456	9.915	9.884	8.533	8.459	7.638	7.397	7.018	16.968
	TOT OBS	891	846	930	898	927	900	924	930	894	930	888	844	10792
18-20	MEAN	26.2	28.8	38.6	47.6	57.1	64.1	66.9	64.9	56.7	46.3	36.2	31.6	47.4
	SD	10.391	7.471	7.715	8.858	9.509	9.030	8.957	7.896	7.194	7.054	7.020	7.568	16.333
	TOT OBS	891	846	930	883	921	900	922	930	890	930	888	826	10757
21-23	MEAN	25.0	25.8	34.3	40.1	48.9	55.7	57.9	56.8	50.3	42.6	34.8	30.8	42.2
	SD	11.586	9.583	7.854	6.949	7.795	7.068	6.289	6.259	6.160	7.221	7.444	8.388	13.838
	TOT OBS	885	846	930	882	922	898	922	930	889	930	887	776	10699
ALL	MEAN	25.9	27.0	36.6	43.5	52.6	59.3	61.6	60.8	54.2	45.8	36.3	31.6	44.9
	SD	11.106	10.688	9.615	10.455	11.051	10.618	10.563	10.223	9.977	8.909	7.930	8.463	16.007
	TOT OBS	7063	6768	7440	7091	7390	7193	7388	7440	7144	7439	7097	6587	86040

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WET-BULB TEMPERATURES DEG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWGR AAF GFR

PERIOD OF RECORD: 77-87

HOURLY LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
03-02	MEAN	24.0	23.4	31.4	35.5	43.5	49.8	51.9	52.2	46.6	40.6	33.9	30.1	38.9
	SD	11.674	11.251	8.252	6.199	7.001	6.150	5.266	6.050	6.875	7.272	7.530	8.469	12.625
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	23.3	21.8	30.3	33.9	41.8	46.0	50.1	50.3	45.2	39.6	33.4	29.4	37.5
	SD	12.065	12.478	9.227	6.432	7.078	6.425	5.695	6.447	7.459	7.403	7.912	8.935	12.702
	TOT OBS	871	846	930	825	916	899	924	930	894	930	885	805	10717
06-08	MEAN	23.3	21.5	30.6	36.2	45.8	52.3	54.0	53.0	46.8	40.1	33.4	29.1	39.1
	SD	12.268	12.930	9.457	6.208	6.711	5.911	5.164	6.156	7.061	7.350	7.747	9.237	13.771
	TOT OBS	883	846	930	887	924	900	924	930	895	930	888	856	10793
09-11	MEAN	25.2	26.3	35.7	42.1	50.5	55.9	58.3	59.0	53.2	45.1	35.6	30.9	43.4
	SD	10.770	9.038	7.080	6.114	6.601	5.941	5.067	5.041	5.628	6.215	6.868	8.049	13.690
	TOT OBS	889	846	930	891	930	900	924	930	894	930	888	860	10812
12-14	MEAN	28.3	30.8	38.7	44.4	52.1	57.0	59.4	60.7	55.9	48.4	38.1	33.4	45.8
	SD	8.306	6.126	6.233	6.568	6.610	5.959	5.199	5.282	5.663	5.921	6.483	6.714	12.722
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	28.3	31.1	39.1	44.6	52.1	57.1	59.8	60.9	56.3	48.4	37.7	32.9	45.9
	SD	8.191	6.050	6.211	6.566	6.588	5.837	5.142	5.265	5.971	6.113	6.619	6.715	12.837
	TOT OBS	891	846	930	888	927	900	924	930	894	930	886	844	10790
18-20	MEAN	25.7	27.8	36.1	42.5	50.6	56.1	58.7	59.1	53.0	44.3	35.1	31.0	43.6
	SD	10.145	7.373	6.626	6.471	6.563	5.714	5.050	5.233	5.972	6.626	6.719	7.334	13.410
	TOT OBS	891	846	930	883	921	900	922	930	890	930	885	826	10754
21-23	MEAN	24.5	25.2	32.9	37.8	46.3	52.3	54.8	54.7	48.7	41.4	34.0	30.2	40.5
	SD	11.288	9.389	7.293	6.213	6.806	5.843	5.942	5.442	6.042	6.949	7.151	8.064	12.647
	TOT OBS	885	846	930	882	922	898	922	930	889	930	884	778	10696
ALL	MEAN	25.3	26.0	34.4	39.7	47.8	53.6	55.9	56.2	50.7	43.5	35.2	30.9	41.8
	SD	10.841	10.277	8.292	7.498	7.715	6.804	6.237	6.865	7.576	7.543	7.359	8.113	13.438
	TOT OBS	7063	6768	7440	7091	7390	7193	7388	7440	7144	7439	7089	6587	86032

GLOBAL CLIMATOLOGY BRANCH

DEW-POINT TEMPERATURES DLG F FROM
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-01	MEAN	22.7	21.8	29.8	33.7	42.0	48.2	50.6	51.1	45.9	39.4	32.7	29.1	37.5
	SD	12.138	12.055	8.551	6.535	7.325	6.085	5.204	5.987	6.911	7.472	7.874	8.453	12.844
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	21.9	20.3	28.9	32.5	40.7	46.8	49.1	49.5	44.5	38.7	32.3	28.5	36.4
	SD	12.794	13.433	9.526	6.709	7.368	6.393	5.562	6.341	7.439	7.559	8.218	9.019	13.016
	TOT OBS	871	846	930	885	918	899	924	930	894	930	885	805	10717
06-08	MEAN	22.0	19.9	29.3	34.2	43.5	49.8	51.9	51.7	45.8	39.1	32.3	28.2	37.5
	SD	12.998	13.854	9.584	6.458	6.893	5.816	4.863	5.987	6.998	7.488	7.952	9.421	13.781
	TOT OBS	883	846	930	887	924	930	924	930	895	930	888	856	10793
09-11	MEAN	23.7	23.7	32.3	36.5	44.9	50.2	53.0	54.8	50.0	42.5	33.9	29.7	39.8
	SD	11.502	10.542	7.651	6.467	7.126	5.945	5.022	5.342	5.821	6.511	7.174	8.367	13.016
	TOT OBS	889	846	930	891	930	900	924	930	894	930	888	860	10812
12-14	MEAN	26.0	26.9	33.2	36.3	44.5	49.5	52.3	54.6	50.3	43.7	35.4	31.5	40.5
	SD	9.422	8.144	7.401	6.987	7.203	6.122	5.178	5.869	6.291	6.630	6.901	7.314	11.901
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	26.2	27.2	33.3	36.1	44.1	49.3	52.4	54.6	50.4	43.9	35.1	31.3	40.5
	SD	9.153	7.695	7.173	6.981	7.186	6.121	5.251	5.730	6.416	6.680	6.995	7.290	11.842
	TOT OBS	891	846	930	888	927	900	924	930	894	930	886	844	10790
18-20	MEAN	24.2	25.3	32.4	36.8	44.8	50.0	52.9	55.2	50.2	42.4	33.6	29.9	40.0
	SD	10.713	8.639	7.077	6.870	6.926	6.022	5.091	5.172	6.139	6.959	7.219	7.765	12.650
	TOT OBS	891	846	930	883	921	900	922	930	890	930	885	876	10754
21-23	MEAN	23.1	23.3	30.8	35.0	43.9	49.6	52.4	53.2	47.4	40.1	32.7	29.2	36.7
	SD	11.626	10.160	7.540	6.657	7.023	5.896	4.878	5.278	6.148	7.228	7.491	8.271	12.648
	TOT OBS	895	846	930	882	922	898	922	930	889	930	884	778	10696
ALL	MEAN	23.7	23.6	31.2	35.1	43.5	49.2	51.8	53.1	48.1	41.2	33.5	29.7	36.9
	SD	11.463	11.111	8.285	6.891	7.261	6.142	5.287	6.050	6.949	7.348	7.575	8.337	12.835
HOURS	TOT OBS	7363	6768	7440	7091	7390	7193	7388	7440	7144	7439	7089	6587	86032

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
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	100.0	99.6	99.8	99.7	96.3	93.4	71.0	93.0	862
	03-05	100.0	100.0	100.0	99.8	99.5	98.9	97.5	93.1	72.6	93.2	871
	06-08	100.0	100.0	100.0	100.0	100.0	99.1	98.2	93.3	71.3	93.2	883
	09-11	100.0	100.0	100.0	100.0	100.0	99.4	97.2	91.0	65.6	91.9	885
	12-14	100.0	100.0	100.0	100.0	100.0	99.6	93.5	76.4	46.0	87.7	891
	15-17	100.0	100.0	100.0	100.0	100.0	99.4	94.3	81.6	49.6	88.6	891
	18-20	100.0	100.0	100.0	100.0	100.0	99.8	98.5	92.8	65.0	91.9	891
	21-23	100.0	100.0	100.0	100.0	100.0	99.9	99.4	95.1	67.1	92.7	885
TOTALS		100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.6	63.5	91.5	7063

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB

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	100.0	99.5	98.7	97.3	91.3	68.3	92.1	846
	03-05	100.0	100.0	100.0	99.8	99.3	98.6	96.6	90.8	73.4	92.9	846
	06-08	100.0	100.0	100.0	99.5	99.5	98.7	96.5	90.8	70.9	92.6	846
	09-11	100.0	99.9	99.8	99.6	98.9	95.3	88.1	76.1	49.2	87.2	846
	12-14	100.0	100.0	99.9	98.7	95.7	86.1	71.4	56.9	30.1	80.0	846
	15-17	100.0	100.0	100.0	99.2	95.9	86.9	69.9	54.3	28.6	79.5	846
	18-20	100.0	100.0	100.0	100.0	99.5	97.5	88.8	77.1	46.1	86.9	846
	21-23	100.0	100.0	100.0	100.0	100.0	99.6	96.2	86.5	58.4	90.4	846
TOTALS		100.0	100.0	100.0	99.6	98.5	95.2	88.1	78.0	53.1	87.7	6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 76-87
MONTH: MAR

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%		
MAR	00-02	100.0	100.0	100.0	100.0	100.0	99.0	95.6	86.6	58.5	90.2	930
	03-05	100.0	100.0	100.0	100.0	100.0	99.4	97.3	90.2	62.6	91.4	930
	06-08	100.0	100.0	100.0	100.0	99.7	98.9	96.5	88.0	60.3	90.9	930
	09-11	100.0	100.0	100.0	99.9	96.6	90.4	73.8	56.2	29.2	80.8	930
	12-14	100.0	99.9	99.4	95.9	87.2	69.2	48.3	30.8	12.9	70.5	930
	15-17	100.0	100.0	99.2	94.7	83.1	67.2	44.2	29.1	12.5	69.0	930
	18-20	100.0	100.0	99.9	98.9	96.0	88.4	71.0	51.4	22.0	79.0	930
	21-23	100.0	100.0	100.0	100.0	99.7	98.3	92.2	78.9	43.2	87.6	930
TOTALS		100.0	100.0	99.8	98.7	95.3	88.9	77.4	63.9	37.7	82.4	7440

GLOBAL CLIMATOLOGY BRANCH
USAF/CIAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	100.0	100.0	99.8	95.8	84.3	49.5	89.0	884	
	03-05	100.0	100.0	100.0	100.0	99.9	99.7	95.9	91.2	63.3	91.5	885	
	06-08	100.0	100.0	100.0	100.0	99.5	97.1	89.5	76.1	47.0	87.3	887	
	09-11	100.0	100.0	99.6	96.0	83.1	65.9	46.8	29.2	12.8	69.3	891	
	12-14	100.0	99.8	94.5	82.6	59.4	41.9	29.5	15.8	7.3	58.8	891	
	15-17	100.0	99.7	91.4	75.1	55.5	41.6	29.1	18.4	6.6	57.5	886	
	18-20	100.0	100.0	98.6	92.9	81.0	64.7	49.0	32.8	13.5	69.0	883	
	21-23	100.0	100.0	100.0	99.9	99.0	94.8	83.7	62.6	28.2	82.8	882	
TOTALS		100.0	99.9	98.0	93.3	84.7	75.7	64.9	51.3	28.5	75.7	7091	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 1C6870 STATION NAME: GRAFENWOHR AFB GFR

PERIOD OF RECORD: 77-86

MONTH: AUG

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
AUG	00-02	100.0	100.0	100.0	100.0	100.0	99.7	99.0	93.0	59.9	91.9	930
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.2	95.6	68.9	93.6	930
	06-08	100.0	100.0	100.0	100.0	99.9	99.4	96.8	85.4	47.5	89.8	930
	09-11	100.0	100.0	99.9	99.1	93.3	74.0	52.6	27.5	7.2	71.0	930
	12-14	100.0	100.0	99.4	94.1	67.3	43.0	25.7	13.3	2.8	60.1	930
	15-17	100.0	100.0	99.6	91.1	62.2	41.1	25.2	14.5	4.7	59.2	930
	18-20	100.0	100.0	100.0	98.7	89.2	74.0	59.5	33.9	10.8	72.4	930
	21-23	100.0	100.0	100.0	100.0	100.0	98.6	95.5	83.2	39.8	88.1	930
	TOTALS	100.0	100.0	99.9	97.9	89.0	78.7	69.2	55.8	30.2	78.3	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	100.0	100.0	100.0	94.3	66.0	92.9	894	
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.8	96.3	73.2	94.3	894	
	06-08	100.0	100.0	100.0	100.0	100.0	99.9	99.4	92.3	63.4	92.5	895	
	09-11	100.0	100.0	100.0	100.0	98.2	88.4	71.3	43.7	17.8	77.6	894	
	12-14	100.0	100.0	99.9	96.4	80.1	53.2	33.7	17.3	4.7	64.1	894	
	15-17	100.0	100.0	99.7	95.7	75.7	51.1	32.8	18.2	5.9	63.6	894	
	18-20	100.0	100.0	100.0	99.9	98.3	92.2	79.6	53.1	14.9	79.7	891	
	21-23	100.0	100.0	100.0	100.0	100.0	99.8	98.3	87.3	48.9	89.8	884	
TOTALS		100.0	100.0	100.0	99.0	94.0	85.6	76.9	62.8	36.9	81.8	7144	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 136870 STATION NAME: GRAFENWOHR AAF GFR

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	100.0	100.0	99.4	96.5	92.8	62.8	92.3	929
	03-05	100.0	100.0	100.0	100.0	100.0	99.7	98.8	95.5	69.0	93.2	930
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	98.8	94.4	66.7	92.9	930
	09-11	100.0	100.0	100.0	99.9	99.4	93.4	82.6	61.5	29.0	82.8	930
	12-14	100.0	100.0	99.6	99.6	91.6	74.7	54.5	29.4	10.4	71.5	930
	15-17	100.0	100.0	99.8	99.4	91.9	76.2	56.9	29.8	10.9	72.0	930
	18-20	100.0	100.0	100.0	100.0	99.8	98.4	93.1	75.2	36.0	86.3	930
	21-23	100.0	100.0	100.0	100.0	100.0	99.5	96.1	89.5	57.2	91.0	930
	TOTALS	100.0	100.0	99.9	99.7	97.8	92.6	84.9	71.0	42.8	85.3	7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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
NOV	00-02	100.0	100.0	100.0	100.0	100.0	100.0	98.3	91.8	68.6	93.0	886
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	98.8	93.7	70.7	93.6	885
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	98.2	93.5	70.7	93.4	886
	09-11	100.0	100.0	100.0	99.9	99.7	98.6	95.0	83.9	50.9	89.5	886
	12-14	100.0	100.0	100.0	99.4	98.6	94.7	82.8	64.5	33.3	83.4	887
	15-17	100.0	100.0	100.0	99.9	99.2	95.7	84.7	67.9	35.3	84.2	886
	18-20	100.0	100.0	100.0	100.0	99.7	99.3	97.1	88.5	56.4	90.4	885
	21-23	100.0	100.0	100.0	100.0	100.0	99.8	98.3	92.1	63.2	92.1	884
TOTALS		100.0	100.0	100.0	99.9	99.7	98.5	94.2	84.5	56.1	90.0	7089

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

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	100.0	99.6	98.7	96.0	73.9	94.0	767	
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.1	97.0	76.6	94.7	805	
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	99.5	96.4	77.8	94.7	856	
	09-11	100.0	100.0	100.0	100.0	100.0	99.5	98.3	93.4	69.0	93.0	860	
	12-14	100.0	100.0	100.0	100.0	100.0	98.1	92.9	78.1	53.0	88.5	851	
	15-17	100.0	100.0	100.0	100.0	99.9	99.5	96.3	86.0	57.6	90.5	844	
	18-20	100.0	100.0	100.0	100.0	100.0	99.4	98.9	95.3	70.6	93.5	826	
	21-23	100.0	100.0	100.0	100.0	100.0	99.7	98.7	96.7	74.0	94.0	778	
TOTALS		100.0	100.0	100.0	100.0	100.0	99.5	97.8	92.4	69.1	92.9	6587	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENBOHR AAF GFR

PERIOD OF RECORD: 77-87
MONTH: ALL

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	ALL	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.6	63.5	91.5	7063	
FEB		100.0	100.0	100.0	99.6	98.5	95.2	88.1	78.0	53.1	87.7	6766	
MAR		100.0	100.0	99.8	98.7	95.3	88.9	77.4	63.9	37.7	82.4	7440	
APR		100.0	99.9	98.0	93.3	84.7	75.7	64.9	51.3	28.5	75.7	7091	
MAY		100.0	100.0	98.8	92.6	83.2	72.6	63.3	49.5	26.7	74.7	7390	
JUN		100.0	99.9	98.2	93.6	83.7	71.1	59.6	42.2	18.0	72.5	7193	
JUL		100.0	100.0	98.8	93.1	82.7	71.9	61.9	47.6	23.0	73.8	7388	
AUG		100.0	100.0	99.9	97.9	89.0	78.7	69.2	55.8	30.2	78.3	7441	
SEP		100.0	100.0	100.0	99.0	94.0	85.6	76.9	62.8	36.9	81.8	7144	
OCT		100.0	100.0	99.9	99.7	97.8	92.6	84.9	71.0	42.8	85.3	7439	
NOV		100.0	100.0	100.0	99.9	99.7	98.5	94.2	84.5	56.1	90.0	7065	
DEC		100.0	100.0	100.0	100.0	100.0	99.5	97.8	92.4	69.1	92.9	6587	
	TOTALS	100.0	100.0	99.5	97.3	92.4	85.9	77.9	65.7	40.5	82.2	86032	

PPPPPPP	AAAAAA	RRRRRR	TTTTTTTT	FFFFFFFF
PPPPPPP	AAAAAAA	RRRRRRR	TTTTTTTT	FFFFFFFF
PP PP	AA AA	RR RR	TT	FF
PP PP	AA AA	RR RR	TT	FF
PPPPPPPP	AAAAAAA	RRRRRRR	TTTTTTTT	FFFFFFFF
PPPPPPP	AAAAAAA	RRRRRRR	TTTTTTTT	FFFFFFFF
PP	AA AA	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: 106870 STATION NAME: GRAFENWHR AAF GFR

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
151														
01	MEAN	28.530	28.570	28.486	28.495	28.503	28.562	28.605	28.595	28.645	28.628	28.605	28.531	28.564
	SD	.324	.309	.270	.219	.197	.151	.131	.135	.176	.255	.260	.353	.247
	TOT OBS	288	282	310	295	306	299	308	310	298	310	295	254	3555
04	MEAN	28.526	28.560	28.475	28.486	28.496	28.554	28.596	28.587	28.638	28.618	28.598	28.517	28.555
	SD	.322	.311	.270	.218	.202	.151	.133	.138	.177	.256	.279	.361	.249
	TOT OBS	290	282	310	295	306	300	308	310	298	310	295	273	3577
07	MEAN	28.523	28.560	28.482	28.499	28.507	28.566	28.605	28.598	28.648	28.626	28.604	28.526	28.562
	SD	.321	.312	.270	.220	.204	.153	.136	.140	.178	.258	.277	.361	.251
	TOT OBS	295	282	310	295	307	300	308	310	298	310	296	286	3597
10	MEAN	28.541	28.574	28.491	28.507	28.509	28.568	28.606	28.604	28.661	28.643	28.623	28.544	28.573
	SD	.319	.313	.269	.219	.204	.150	.136	.140	.177	.259	.276	.363	.251
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	287	3605
13	MEAN	28.523	28.562	28.482	28.490	28.494	28.557	28.594	28.589	28.643	28.622	28.607	28.529	28.558
	SD	.319	.310	.269	.215	.200	.146	.131	.137	.173	.257	.275	.362	.246
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	282	3600
16	MEAN	28.516	28.550	28.463	28.470	28.480	28.541	28.581	28.572	28.625	28.607	28.596	28.522	28.544
	SD	.320	.305	.266	.212	.198	.146	.129	.132	.172	.256	.273	.360	.246
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	282	3600
19	MEAN	28.526	28.568	28.477	28.476	28.483	28.540	28.576	28.572	28.631	28.621	28.608	28.534	28.551
	SD	.327	.302	.266	.212	.194	.145	.129	.131	.172	.257	.275	.359	.246
	TOT OBS	297	282	310	295	307	300	307	310	296	310	296	275	3585
22	MEAN	28.533	28.576	28.486	28.496	28.509	28.561	28.599	28.594	28.649	28.635	28.612	28.543	28.566
	SD	.328	.301	.270	.217	.196	.147	.130	.134	.175	.257	.279	.353	.246
	TOT OBS	295	282	310	294	308	299	307	310	296	310	296	256	3563
ALL	MEAN	28.528	28.565	28.481	28.490	28.496	28.556	28.596	28.589	28.643	28.625	28.607	28.531	28.559
	SD	.322	.308	.269	.216	.199	.149	.132	.136	.175	.257	.276	.359	.248
	TOT OBS	2356	2256	2480	2365	2464	2398	2462	2480	2380	2480	2366	2195	28682

END

DATE
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