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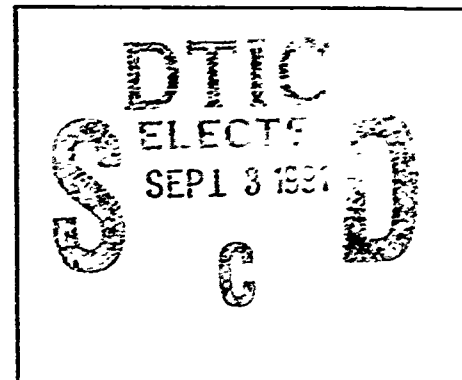
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REPORT DOCUMENTATION PAGE

2. Report Date: Dec 1986
3. Report Type and Dates Covered: Data Summary (LISOCS) Aug 76-Jul 86
4. Title: Limited Surface Observations Climatic Summary for Hanau AAF, Germany, WMO 106420
7. Performing Organization Name and Address: Operating Location A, USAF Environmental Technical Applications Center (OL-A, USAFETAC), Federal Building, Asheville, NC 28801-2723
8. Performing Organization Report Number: USAFETAC/DS--91/102
12. Distribution/Availability Statement: Approved for public release; distribution is unlimited.
13. Abstract: A Limited Surface Observations Climatic Summary (LISOCS) for Hanau AAF, Germany. See USAFETAC/TN-83/001 (AD-132186) for a complete description of the RUSSWO and its contents, as well as instructions for use.
14. Subject Terms: CLIMATOLOGY, WEATHER, WEATHER STATIONS, WEATHER OBSERVATIONS, STATISTICS, METEOROLOGICAL PHENOMENA, ATMOSPHERIC PHENOMENA, ATMOSPHERIC PRESSURE, PRECIPITATION, VISIBILITY, WIND, CLOUD, CLOUD CEILING, SKY COVER, PSYCHROMETRIC DATA, TEMPERATURE, RELATIVE HUMIDITY, GERMANY, HANAU
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18. Security Classification of this Page: Unclassified
19. Security Classification of Abstract: Unclassified
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REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-91/102, Limited Surface Observations Climatic Summary (LISOCS) for Hanau AAF, Germany, has been reviewed and 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).

FOR THE COMMANDER

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

WALTER S. BURGMAHN
Scientific and Technical Information
Program Manager

I HAVE REVIEWED AND FOUND SATISFACTORY THIS PRODUCT

12/12/86

94.17 (10)
H. M. Mountain

15 Dec 86

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

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

LIMITED SURFACE OBSERVATIONS
CLIMATIC SUMMARIES
(LISOCs)

DEFINITION: A RUSSWO-like set of summaries of hourly observations for the station's normal operating hours.

Hourly Observations: Those record or record-special observations recorded at established hourly intervals.

General Comments:

1. The hourly data are screened to exclude extraneous or occasional hours outside the normal observing hours.
2. A brief description precedes each summary.
3. Summaries containing "TOTALS" and "ALL HOURS" are only from the hours summarized. These values are representative only for the operating hours.
4. The monthly and annual "ALL HOURS" summaries are not presented because they are not representative, and would result in meaningless or biased values.
5. There are no "Sky Cover" nor "Sea Level Pressure" summaries for METAR stations.

Table of Contents: AWS Form 2 "Station History"

- Part 1: Weather Conditions
Part 2: Surface Winds
Part 3: Ceiling Versus Visibility; Sky Cover
Part 4: Daily High, Low, Mean Temperatures; Max High and Min Low Temperatures;
Psychrometric Tables; Mean and Standard Deviation of Temperatures; Relative Humidity
Part 5: Station Pressure; Sea Level Pressure

Standard 3-Hour Groups: All summaries having diurnal variations are summarized in 3-hour periods corresponding to the following sets of hourly observations and limited to normal observation reporting hours (LST):

0000-0200	1200-1400
0300-0500	1500-1700
0600-0800	1800-2000
0900-1100	2100-2300

Note that the first and last hour groups may or may not contain all three hours. See hours summarized on front cover to determine which hours are included in these two hour groups.

STATION LOCATION AND INSTRUMENTATION HISTORY

AWS MSC NO. 106420		NAME OF STATION Hanau AAF GERMANY		LATITUDE N 50 10		LONGITUDE E 008 53		FIELD ELEV (FT) 369		CALL SIGN EDID		WMO NUMBER 10642	
CHG NO.	GEOGRAPHICAL LOCATION AND NAME			TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY		
					FROM	TO			FIELD (FT)	HT BARO			
1	Hanau AAF GE		AAF	May 46	Aug 46	N 50 10	E 008 58	377	377	24			
2	Same		Same	Apr 56	Apr 56	Same	E 008 57	Same	Same	16 Daily			
3	Same		Same	Oct 56	Oct 57	Same	Same	Same	Same	18x17 Daily			
4	Same		Same	Nov 57	Jun 61	Same	Same	Same	Same	12-15N-			
5	Same		Same	Jul 61	Oct 64	Same	Same	Same		F, 4-8 Sat Closed Sun			
6	Same		Same	Nov 64	Jul 66	Same	Same	Same	373	12-17N- E, 4-8 Sat			
7	Same		Same	Aug 66	Sep 66	Same	Same	Same	Same	Closed Sun			
8	Same		Same	Oct 66	May 68	Same	Same	Same	Same	24			
9	Same		Same	Jun 68	Jul 68	Same	Same	Same	Same	14 Daily			
10	Same		Same	Aug 68	Jun 70	Same	Same	Same	Same	24			
11	Same		Same	Jul 70	Dec 72	Same	Same	Same	Same	17 Daily			
12	Same		Same	Dec 72	Feb 76	Same	Same	Same	380	24			
13	Same		Same	Mar 76	Jul 86	Same	E 008 58	369	371	24			
							Same	Same	Same	14-17 Closed Sat/ Sun Holi- days			
*	See Remarks!												
CHG NO.	DATE OF CHANGE	LOCATION	SURFACE EQUIPMENT INFORMATION			REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
			TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND								
1	May-Aug 46	Located on the Terminal Bldg.	Selsyn	None	62Ft	* Obs per day: M-TH 14-17, FR 12 Clsd Sat, Sun and US Holidays							
2	Apr 56 to	Located on top of Weather Station	AN/GMQ-1	None	40Ft								
3	Feb 60	Bldg	AN/GMQ-11	None	50Ft								
4	Mar 60 to	Located on top of Control Tower,	Same	None	60Ft								
	Feb 63	Same	Same	None	13Ft								
5	Mar 66	Located 500 ft N of center of Rnwy	Same	RO-2	13 Ft								
6	Dec 72	28,700 ft from end of Rnwy.	Same	RO-362	13 Ft								
	Dec 72 to	Same											
	Dec 82												

HANAU AAF GERMANY
ESTIMATED SUMMARY OF DAY DATA

MONTH	TEMPERATURE		PRECIPITATION			MIN MON	MAX 24HR	SNOWFALL		MIN MON	WINDS PEAK GUSTS
	MAX	MIN	MAX 24HR	MAX MON	MEAN MON						
JAN	57	-5	1.2	3.8	1.4	.2	6	8	4	#	46
FEB	64	-4	1.2	2.8	1.5	#	5	18	4	0	74
MAR	77	9	1.1	3.6	1.5	#	3	6	2	0	50
APR	87	21	1.2	4.2	2.0	.1	1	2	#	0	49
MAY	93	28	1.5	6.6	1.9	.2	#	#	#	0	41
JUN	95	32	2.2	6.1	2.6	.1	0	0	0	0	36
JUL	98	39	1.8	5.2	2.5	.1	0	0	0	0	42
AUG	98	37	3.1	6.2	2.5	#	0	0	0	0	31
SEP	89	32	1.8	6.0	2.1	#	0	0	0	0	35
OCT	81	24	2.2	6.3	1.6	#	#	#	#	0	44
NOV	69	11	1.8	6.0	2.2	.1	5	8	3	0	50
DEC	61	0	1.7	5.5	2.3	#	6	13	4	0	47
ANN	98	-5	3.1	22.0	24.0	#	6	18	17	0	74
YEARS	30	30	30	30	30	30	30	30	30	30	15

NOTE: # INDICATES LESS THAN THE AMOUNT INDICATED IN THAT COLUMN. ALL TEMPERATURES ARE IN DEGREES FAHRENHEIT AND THE PRECIPITATION/SNOWFALL AMOUNTS ARE IN INCHES.

HANAU AAF GERMANY
DAYS WITH

MONTH	FOG	MEASURABLE PRECIPITATION	THUNDERSTORMS	MEASURABLE SNOWFALL	SNOW COVER
JAN	23	15	#	7	9
FEB	19	14	#	5	6
MAR	18	14	1	3	2
APR	15	14	2	2	#
MAY	16	14	4	#	0
JUN	16	12	5	0	0
JUL	17	11	4	0	0
AUG	19	14	4	0	0
SEP	22	10	2	0	0
OCT	24	10	#	#	0
NOV	23	14	#	3	1
DEC	24	14	#	7	5
ANN	236	160	22	27	22
YEARS	30	30	30	30	30

THE LACK OF SUMMARY OF DAY DATA PRECLUDES A COMPLETE CLIMATIC BRIEF, HOWEVER THE DATA PRESENTED HERE WERE OBTAINED FROM SEVERAL SOURCES AND COMBINED BY A CLIMATOLOGIST.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WEATHER CONDITIONS

PART I

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented by month by the available 3-hour groups.

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

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

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

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

Hail--Occurrences of hail.

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

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

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

Blowing snow--Occurrences of blowing snow.

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

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

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

Continued on Reverse

NOTE: 1. For METAR stations beginning Jan 68 and Synoptic reporting stations, only the highest order of atmospheric phenomena was reported, recorded on the AWS Forms 10a, and transmitted longline. Beginning Jan 70, METAR stations recorded all atmospheric phenomena on the AWS Form 10a, but transmitted longline only the highest order. For example, if the observation consisted of rain, fog and smoke, only the rain was transmitted longline. Our data base, as a result, contains only rain for that observation. Because of these reporting procedures the summaries for METAR and Synoptic reporting stations are highly questionable in the hourly summaries. This primarily effects the obstruction to vision columns, but may also have minor effects on the precipitation columns.

2. When the value of ".0" appears in the summaries, it represent one or more occurrences amounting to less than .05 percent.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (U.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02												
	03-05												
	06-08		15.4	.4	7.4		22.6	44.1	1.4			45.6	407
	09-11		13.4	.6	11.2		23.5	38.8	3.0			41.9	659
	12-14		11.8	.3	7.8		18.8	29.8	10.9			40.7	664
	15-17	.2	12.7	.3	6.3		18.6	27.3	10.2			37.5	640
	18-20	.2	12.7	.4	7.7		20.2	38.1	6.2			44.3	535
	21-23		12.6		9.2		20.1	36.2	2.9			39.1	174
TOTALS		.1	13.1	.3	8.3		20.6	35.7	5.0			41.5	3149

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	N OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02												
	03-05												
	06-08		9.2		8.3		17.2	47.7	8.5			50.2	436
	09-11		8.8		10.4		18.2	37.2	14.1			51.3	509
	12-14		10.1		7.7		17.4	17.4	25.1			42.6	585
	15-17		9.2		5.8	.2	14.3	15.1	26.7			41.8	589
	18-20		5.8	.4	3.3		9.5	27.0	25.3			52.2	538
	21-23		3.4		1.1		4.5	39.1	27.4			66.5	179
TOTALS			7.8	.1	6.1	.0	13.5	30.6	21.2			51.0	2916

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	N OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
MAR	00-02												
	03-05												
	06-08		16.5		2.2	.2	18.1	43.7	5.4			49.2	496
	09-11		15.6		2.4		17.5	28.2	16.8			45.0	680
	12-14	.3	12.8		1.8		14.0	12.2	23.5			35.7	681
	15-17	.1	12.8		1.2		12.9	6.3	22.5			28.8	681
	18-20	.5	14.5		1.0		14.7	12.0	19.6			31.6	592
	21-23		12.4		.9		12.9	26.2	14.7			40.9	225
TOTALS		.2	14.1		1.6	.0	15.0	21.4	17.1			38.9	3355

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY

77-86

APR

STATION NAME STATION YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02												
	03-05												
	06-08		16.0		3.2		18.6	32.1	7.1			39.2	630
	09-11	.2	13.0		3.1		15.2	13.2	14.9			28.1	652
	12-14	.3	11.9		1.1	.2	12.8	3.7	10.8			14.5	641
	15-17	.6	11.6		1.0	.2	12.4	1.8	7.6			9.3	621
	18-20	1.3	9.0		.9		9.9	3.4	9.2			12.6	554
	21-23	.3	10.7		.7		11.0	9.0	9.3			18.3	300
TOTALS		.5	12.0		.7	.1	13.3	10.5	9.8			20.3	3398

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02												
	03-05												
	06-08		13.6				13.6	30.8	5.8			36.6	639
	09-11	.2	15.9				15.9	10.1	11.1			21.2	656
	12-14	.8	18.9				18.9	2.3	4.2			6.5	662
	15-17	2.8	17.3			.2	17.4	2.0	3.9			5.9	648
	18-20	1.5	12.4				12.4	5.9	2.0			8.7	539
	21-23	1.4	13.4			.4	13.7	13.0	6.7			19.7	284
TOTALS		1.1	15.3			.1	15.3	10.7	5.8			16.4	3428

GLOBAL CLIMATOLOGY BRANCH
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AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF C
JUN	00-02												
	03-05												
	06-08	.9	11.1				11.1	28.5	9.0			37.6	655
	09-11	.8	13.7				13.7	6.4	10.9			17.3	652
	12-14	1.1	11.0				11.0	3.1	5.7			8.7	654
	15-17	2.0	8.8				8.8	3.3	4.9			8.2	638
	18-20	2.1	10.2				10.2	3.6	4.1			7.7	559
	21-23	1.5	9.6				9.6	13.4	5.4			18.8	335
TOTALS		1.4	10.7				10.7	9.7	6.7			16.4	3493

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

77-86

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02												
	03-05												
	06-08	.7	10.7				10.7	31.4	6.3			37.7	608
	09-11	.2	10.0				10.0	8.0	12.4			20.4	637
	12-14	.3	7.2				7.2	3.0	6.6			9.6	636
	15-17	1.4	6.1				6.1	1.9	5.0			6.9	636
	18-20	1.5	8.7				8.7	2.2	5.7			7.9	598
	21-23	1.6	7.8				7.8	12.9	10.8			23.7	371
TOTALS		1.0	8.4				8.4	9.9	7.8			17.7	3486

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

76-85

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02												
	03-05												
	06-08	.3	6.9				6.9	47.7	7.8			55.5	696
	09-11	.4	5.3				5.3	14.8	17.5			32.2	704
	12-14	.6	6.2				6.2	2.7	10.7			13.4	707
	15-17	.9	7.2				7.2	2.0	7.0			9.1	696
	18-20	.9	5.7				5.7	4.0	9.0			13.0	652
	21-23	.5	6.1				6.1	15.6	11.6			27.2	379
TOTALS		.6	6.2				6.2	14.5	10.6			25.1	3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

76-85

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02												
	03-05												
	06-08		6.1				6.1	59.8	3.0			62.8	674
	09-11	.1	5.4				5.4	32.0	19.9			52.0	687
	12-14	.3	8.4				8.4	6.2	19.6			25.8	664
	15-17	.5	9.7				9.7	2.9	14.7			17.5	627
	18-20	1.0	9.4				9.4	13.0	15.0			28.0	607
	21-23		8.7				8.7	25.7	11.5			37.2	366
TOTALS		.3	8.0				8.0	23.3	14.0			37.2	3625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

76-85

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02												
	03-05												
	06-08		11.5				11.5	61.2	1.7			62.9	480
	09-11		11.8				11.8	45.2	9.5			54.7	660
	12-14		8.3				8.3	20.4	17.1			37.6	636
	15-17		8.0				8.0	12.7	18.2			30.9	615
	18-20	.2	9.1				9.1	33.6	10.5			44.1	560
	21-23		6.6				6.6	49.6	4.8			54.4	228
TOTALS		.0	9.2				9.2	37.1	10.3			47.4	3179

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

76-85

NOV

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02												
	03-05												
	06-08		11.8		2.5		13.6	56.4	3.0			59.4	433
	09-11		12.8		3.2		15.2	45.9	6.9			52.8	593
	12-14		10.7		2.0		12.6	30.1	16.1			46.2	589
	15-17		11.4		2.2		13.3	27.3	16.6			43.9	586
	18-20	.4	12.7		.8		13.5	40.6	8.9			49.5	527
	21-23		9.5		2.7		11.8	48.2	3.6			51.8	220
TOTALS		.1	11.5		2.2		13.3	41.4	9.2			50.6	2948

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420

HANAU AAF GERMANY

76-85

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02												
	03-05												
	06-08		21.3		3.6		24.2	47.2	2.4			49.6	413
	09-11	.2	15.3		6.7		21.6	41.0	4.7			45.7	615
	12-14	.2	15.4	.5	4.3		20.2	30.5	7.9			38.4	609
	15-17		15.4	.3	5.4		20.6	30.9	7.7			38.6	596
	18-20	.3	15.2		2.5		17.4	43.6	3.0			46.7	362
	21-23		7.7		1.7		9.4	59.8	2.6			62.4	117
TOTALS		.1	15.1	.1	4.0		18.9	42.2	4.7			46.9	2712

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

76-86

ALL

HANAU AAF GERMANY

106420

MONTH

YEARS

STATION NAME

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	13.1	.3	8.3		20.6	35.7	5.8			41.5	3149
FEB			7.8	.1	6.1	.0	13.5	30.6	21.2			51.8	2916
MAR		.2	14.1		1.6	.0	15.0	21.4	17.1			38.5	3355
APR		.5	12.0		1.7	.1	13.3	10.5	9.8			20.3	3398
MAY		1.1	15.3			.1	15.3	10.7	5.8			16.4	3428
JUN		1.4	10.7				10.7	9.7	6.7			16.4	3493
JUL		1.0	8.4				9.4	9.9	7.8			17.7	3486
AUG		.6	6.2				6.2	14.5	10.6			25.1	3834
SEP		.3	8.0				8.0	23.3	14.0			37.2	3625
OCT		.0	9.2				9.2	37.1	10.3			47.4	3179
NOV		.1	11.5		2.2		13.3	41.4	9.2			50.6	2948
DEC		.1	15.1	.1	4.0		18.9	42.2	4.7			46.9	2712
TOTALS		.5	11.0	.0	2.0	.0	12.7	23.9	10.3			34.2	39523

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

SURFACE WINDS

PART 2

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

Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm vs 11 wind speed (knots) increments in Beaufort classifications. Percentages are shown for both directions and speed, and in addition the mean wind speed is given for each direction.

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

These tables are prepared for all years combined, by month by available 3-hour groups.

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

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

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS (LST): 0600-0800

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	.8	.4							
NNE	1.0	.2	.4						
NE	.4	1.8							
ENE	1.5	1.2							
E	1.0	1.2	.6						
ESE	.6								
SE	1.0	.2	.6						
SSE	1.8	2.7	1.6	.2					
S	3.3	3.9	2.7	.4					
SSW	1.4	2.7	4.5	2.1					
SW	.4	2.3	3.1	2.5					
WSW	.4	1.0	1.4						
W	.5	1.4	.8	.4					
WNW	.4	.8	.6						
W	.8	.6	.8	.2					
WNW	1.4	.5	.4	.4					
VARIABLE									
CALC									
TOTALS	17.2	21.8	16.5	6.4					

TOTAL NUMBER OF OBSERVATIONS: 457

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

STATION NUMBER: 105423 STATION NAME: HAWAII AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JAN HOURS(LST): 0900-1100

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	.5	.6	.8						
NNE	.8	.2	.6	.2					
NE	1.1	1.8	.3						
ENE	1.7	1.2	.5						
E	1.1	.9	.9						
ESE	1.1	.6		.2					
SE	.5	.5	.6						
SSE	1.4	2.9	2.3	.2					
S	2.9	5.0	2.3	.3					
SSW	.8	2.6	4.2	2.0					
SW	.2	2.0	5.6	2.9					
WSW	.6	.9	2.4	.8					
W	.6	1.4	1.8	.6					
WNW	.5	.5	.2						
NW	.5	.2		.5					
NNW	.9	.9	.9						
.....									
VARIABLE	1.2 .9								
CALC	////////////////////								
TOTALS	14.7	22.0	24.6	8.3					
.....									
TOTALS	100.0 4.6								

TOTAL NUMBER OF OBSERVATIONS: 659

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

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

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

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 56-63 64-71 72-79 80-87 88-95 96-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255 256-263 264-271 272-279 280-287 288-295 296-303 304-311 312-319 320-327 328-335 336-343 344-351 352-359 360-367 368-375 376-383 384-391 392-399 400-407 408-415 416-423 424-431 432-439 440-447 448-455 456-463 464-471 472-479 480-487 488-495 496-503 504-511 512-519 520-527 528-535 536-543 544-551 552-559 560-567 568-575 576-583 584-591 592-599 600-607 608-615 616-623 624-631 632-639 640-647 648-655 656-663 664-671 672-679 680-687 688-695 696-703 704-711 712-719 720-727 728-735 736-743 744-751 752-759 760-767 768-775 776-783 784-791 792-799 800-807 808-815 816-823 824-831 832-839 840-847 848-855 856-863 864-871 872-879 880-887 888-895 896-903 904-911 912-919 920-927 928-935 936-943 944-951 952-959 960-967 968-975 976-983 984-991 992-999 1000-1007 1008-1015 1016-1023 1024-1031 1032-1039 1040-1047 1048-1055 1056-1063 1064-1071 1072-1079 1080-1087 1088-1095 1096-1103 1104-1111 1112-1119 1120-1127 1128-1135 1136-1143 1144-1151 1152-1159 1160-1167 1168-1175 1176-1183 1184-1191 1192-1199 1200-1207 1208-1215 1216-1223 1224-1231 1232-1239 1240-1247 1248-1255 1256-1263 1264-1271 1272-1279 1280-1287 1288-1295 1296-1303 1304-1311 1312-1319 1320-1327 1328-1335 1336-1343 1344-1351 1352-1359 1360-1367 1368-1375 1376-1383 1384-1391 1392-1399 1400-1407 1408-1415 1416-1423 1424-1431 1432-1439 1440-1447 1448-1455 1456-1463 1464-1471 1472-1479 1480-1487 1488-1495 1496-1503 1504-1511 1512-1519 1520-1527 1528-1535 1536-1543 1544-1551 1552-1559 1560-1567 1568-1575 1576-1583 1584-1591 1592-1599 1600-1607 1608-1615 1616-1623 1624-1631 1632-1639 1640-1647 1648-1655 1656-1663 1664-1671 1672-1679 1680-1687 1688-1695 1696-1703 1704-1711 1712-1719 1720-1727 1728-1735 1736-1743 1744-1751 1752-1759 1760-1767 1768-1775 1776-1783 1784-1791 1792-1799 1800-1807 1808-1815 1816-1823 1824-1831 1832-1839 1840-1847 1848-1855 1856-1863 1864-1871 1872-1879 1880-1887 1888-1895 1896-1903 1904-1911 1912-1919 1920-1927 1928-1935 1936-1943 1944-1951 1952-1959 1960-1967 1968-1975 1976-1983 1984-1991 1992-1999 2000-2007 2008-2015 2016-2023 2024-2031 2032-2039 2040-2047 2048-2055 2056-2063 2064-2071 2072-2079 2080-2087 2088-2095 2096-2103 2104-2111 2112-2119 2120-2127 2128-2135 2136-2143 2144-2151 2152-2159 2160-2167 2168-2175 2176-2183 2184-2191 2192-2199 2200-2207 2208-2215 2216-2223 2224-2231 2232-2239 2240-2247 2248-2255 2256-2263 2264-2271 2272-2279 2280-2287 2288-2295 2296-2303 2304-2311 2312-2319 2320-2327 2328-2335 2336-2343 2344-2351 2352-2359 2360-2367 2368-2375 2376-2383 2384-2391 2392-2399 2400-2407 2408-2415 2416-2423 2424-2431 2432-2439 2440-2447 2448-2455 2456-2463 2464-2471 2472-2479 2480-2487 2488-2495 2496-2503 2504-2511 2512-2519 2520-2527 2528-2535 2536-2543 2544-2551 2552-2559 2560-2567 2568-2575 2576-2583 2584-2591 2592-2599 2600-2607 2608-2615 2616-2623 2624-2631 2632-2639 2640-2647 2648-2655 2656-2663 2664-2671 2672-2679 2680-2687 2688-2695 2696-2703 2704-2711 2712-2719 2720-2727 2728-2735 2736-2743 2744-2751 2752-2759 2760-2767 2768-2775 2776-2783 2784-2791 2792-2799 2800-2807 2808-2815 2816-2823 2824-2831 2832-2839 2840-2847 2848-2855 2856-2863 2864-2871 2872-2879 2880-2887 2888-2895 2896-2903 2904-2911 2912-2919 2920-2927 2928-2935 2936-2943 2944-2951 2952-2959 2960-2967 2968-2975 2976-2983 2984-2991 2992-2999 3000-3007 3008-3015 3016-3023 3024-3031 3032-3039 3040-3047 3048-3055 3056-3063 3064-3071 3072-3079 3080-3087 3088-3095 3096-3103 3104-3111 3112-3119 3120-3127 3128-3135 3136-3143 3144-3151 3152-3159 3160-3167 3168-3175 3176-3183 3184-3191 3192-3199 3200-3207 3208-3215 3216-3223 3224-3231 3232-3239 3240-3247 3248-3255 3256-3263 3264-3271 3272-3279 3280-3287 3288-3295 3296-3303 3304-3311 3312-3319 3320-3327 3328-3335 3336-3343 3344-3351 3352-3359 3360-3367 3368-3375 3376-3383 3384-3391 3392-3399 3400-3407 3408-3415 3416-3423 3424-3431 3432-3439 3440-3447 3448-3455 3456-3463 3464-3471 3472-3479 3480-3487 3488-3495 3496-3503 3504-3511 3512-3519 3520-3527 3528-3535 3536-3543 3544-3551 3552-3559 3560-3567 3568-3575 3576-3583 3584-3591 3592-3599 3600-3607 3608-3615 3616-3623 3624-3631 3632-3639 3640-3647 3648-3655 3656-3663 3664-3671 3672-3679 3680-3687 3688-3695 3696-3703 3704-3711 3712-3719 3720-3727 3728-3735 3736-3743 3744-3751 3752-3759 3760-3767 3768-3775 3776-3783 3784-3791 3792-3799 3800-3807 3808-3815 3816-3823 3824-3831 3832-3839 3840-3847 3848-3855 3856-3863 3864-3871 3872-3879 3880-3887 3888-3895 3896-3903 3904-3911 3912-3919 3920-3927 3928-3935 3936-3943 3944-3951 3952-3959 3960-3967 3968-3975 3976-3983 3984-3991 3992-3999 4000-4007 4008-4015 4016-4023 4024-4031 4032-4039 4040-4047 4048-4055 4056-4063 4064-4071 4072-4079 4080-4087 4088-4095 4096-4103 4104-4111 4112-4119 4120-4127 4128-4135 4136-4143 4144-4151 4152-4159 4160-4167 4168-4175 4176-4183 4184-4191 4192-4199 4200-4207 4208-4215 4216-4223 4224-4231 4232-4239 4240-4247 4248-4255 4256-4263 4264-4271 4272-4279 4280-4287 4288-4295 4296-4303 4304-4311 4312-4319 4320-4327 4328-4335 4336-4343 4344-4351 4352-4359 4360-4367 4368-4375 4376-4383 4384-4391 4392-4399 4400-4407 4408-4415 4416-4423 4424-4431 4432-4439 4440-4447 4448-4455 4456-4463 4464-4471 4472-4479 4480-4487 4488-4495 4496-4503 4504-4511 4512-4519 4520-4527 4528-4535 4536-4543 4544-4551 4552-4559 4560-4567 4568-4575 4576-4583 4584-4591 4592-4599 4600-4607 4608-4615 4616-4623 4624-4631 4632-4639 4640-4647 4648-4655 4656-4663 4664-4671 4672-4679 4680-4687 4688-4695 4696-4703 4704-4711 4712-4719 4720-4727 4728-4735 4736-4743 4744-4751 4752-4759 4760-4767 4768-4775 4776-4783 4784-4791 4792-4799 4800-4807 4808-4815 4816-4823 4824-4831 4832-4839 4840-4847 4848-4855 4856-4863 4864-4871 4872-4879 4880-4887 4888-4895 4896-4903 4904-4911 4912-4919 4920-4927 4928-4935 4936-4943 4944-4951 4952-4959 4960-4967 4968-4975 4976-4983 4984-4991 4992-4999 5000-5007 5008-5015 5016-5023 5024-5031 5032-5039 5040-5047 5048-5055 5056-5063 5064-5071 5072-5079 5080-5087 5088-5095 5096-5103 5104-5111 5112-5119 5120-5127 5128-5135 5136-5143 5144-5151 5152-5159 5160-5167 5168-5175 5176-5183 5184-5191 5192-5199 5200-5207 5208-5215 5216-5223 5224-5231 5232-5239 5240-5247 5248-5255 5256-5263 5264-5271 5272-5279 5280-5287 5288-5295 5296-5303 5304-5311 5312-5319 5320-5327 5328-5335 5336-5343 5344-5351 5352-5359 5360-5367 5368-5375 5376-5383 5384-5391 5392-5399 5400-5407 5408-5415 5416-5423 5424-5431 5432-5439 5440-5447 5448-5455 5456-5463 5464-5471 5472-5479 5480-5487 5488-5495 5496-5503 5504-5511 5512-5519 5520-5527 5528-5535 5536-5543 5544-5551 5552-5559 5560-5567 5568-5575 5576-5583 5584-5591 5592-5599 5600-5607 5608-5615 5616-5623 5624-5631 5632-5639 5640-5647 5648-5655 5656-5663 5664-5671 5672-5679 5680-5687 5688-5695 5696-5703 5704-5711 5712-5719 5720-5727 5728-5735 5736-5743 5744-5751 5752-5759 5760-5767 5768-5775 5776-5783 5784-5791 5792-5799 5800-5807 5808-5815 5816-5823 5824-5831 5832-5839 5840-5847 5848-5855 5856-5863 5864-5871 5872-5879 5880-5887 5888-5895 5896-5903 5904-5911 5912-5919 5920-5927 5928-5935 5936-5943 5944-5951 5952-5959 5960-5967 5968-5975 5976-5983 5984-5991 5992-5999 6000-6007 6008-6015 6016-6023 6024-6031 6032-6039 6040-6047 6048-6055 6056-6063 6064-6071 6072-6079 6080-6087 6088-6095 6096-6103 6104-6111 6112-6119 6120-6127 6128-6135 6136-6143 6144-6151 6152-6159 6160-6167 6168-6175 6176-6183 6184-6191 6192-6199 6200-6207 6208-6215 6216-6223 6224-6231 6232-6239 6240-6247 6248-6255 6256-6263 6264-6271 6272-6279 6280-6287 6288-6295 6296-6303 6304-6311 6312-6319 6320-6327 6328-6335 6336-6343 6344-6351 6352-6359 6360-6367 6368-6375 6376-6383 6384-6391 6392-6399 6400-6407 6408-6415 6416-6423 6424-6431 6432-6439 6440-6447 6448-6455 6456-6463 6464-6471 6472-6479 6480-6487 6488-6495 6496-6503 6504-6511 6512-6519 6520-6527 6528-6535 6536-6543 6544-6551 6552-6559 6560-6567 6568-6575 6576-6583 6584-6591 6592-6599 6600-6607 6608-6615 6616-6623 6624-6631 6632-6639 6640-6647 6648-6655 6656-6663 6664-6671 6672-6679 6680-6687 6688-6695 6696-6703 6704-6711 6712-6719 6720-6727 6728-6735 6736-6743 6744-6751 6752-6759 6760-6767 6768-6775 6776-6783 6784-6791 6792-6799 6800-6807 6808-6815 6816-6823 6824-6831 6832-6839 6840-6847 6848-6855 6856-6863 6864-6871 6872-6879 6880-6887 6888-6895 6896-6903 6904-6911 6912-6919 6920-6927 6928-6935 6936-6943 6944-6951 6952-6959 6960-6967 6968-6975 6976-6983 6984-6991 6992-6999 7000-7007 7008-7015 7016-7023 7024-7031 7032-7039 7040-7047 7048-7055 7056-7063 7064-7071 7072-7079 7080-7087 7088-7095 7096-7103 7104-7111 7112-7119 7120-7127 7128-7135 7136-7143 7144-7151 7152-7159 7160-7167 7168-7175 7176-7183 7184-7191 7192-7199 7200-7207 7208-7215 7216-7223 7224-7231 7232-7239 7240-7247 7248-7255 7256-7263 7264-7271 7272-7279 7280-7287 7288-7295 7296-7303 7304-7311 7312-7319 7320-7327 7328-7335 7336-7343 7344-7351 7352-7359 7360-7367 7368-7375 7376-7383 7384-7391 7392-7399 7400-7407 7408-7415 7416-7423 7424-7431 7432-7439 7440-7447 7448-7455 7456-7463 7464-7471 7472-7479 7480-7487 7488-7495 7496-7503 7504-7511 7512-7519 7520-7527 7528-7535 7536-7543 7544-7551 7552-7559 7560-7567 7568-7575 7576-7583 7584-7591 7592-7599 7600-7607 7608-7615 7616-7623 7624-7631 7632-7639 7640-7647 7648-7655 7656-7663 7664-7671 7672-7679 7680-7687 7688-7695 7696-7703 7704-7711 7712-7719 7720-7727 7728-7735 7736-7743 7744-7751 7752-7759 7760-7767 7768-7775 7776-7783 7784-7791 7792-7799 7800-7807 7808-7815 7816-7823 7824-7831 7832-7839 7840-7847 7848-7855 7856-7863 7864-7871 7872-7879 7880-7887 7888-7895 7896-7903 7904-7911 7912-7919 7920-7927 7928-7935 7936-7943 7944-7951 7952-7959 7960-7967 7968-7975 7976-7983 7984-7991 7992-7999 8000-8007 8008-8015 8016-8023 8024-8031 8032-8039 8040-8047 8048-8055 8056-8063 8064-8071 8072-8079 8080-8087 8088-8095 8096-8103 8104-8111 8112-8119 8120-8127 8128-8135 8136-8143 8144-8151 8152-8159 8160-8167 8168-8175 8176-8183 8184-8191 8192-8199 8200-8207 8208-8215 8216-8223 8224-8231 8232-8239 8240-8247 8248-8255 8256-8263 8264-8271 8272-8279 8280-8287 8288-8295 8296-8303 8304-8311 8312-8319 8320-8327 8328-8335 8336-8343 8344-8351 8352-8359 8360-8367 8368-8375 8376-8383 8384-8391 8392-8399 8400-8407 8408-8415 8416-8423 8424-8431 8432-8439 8440-8447 8448-8455 8456-8463 8464-8471 8472-8479 8480-8487 8488-8495 8496-8503 8504-8511 8512-8519 8520-8527 8528-8535 8536-8543 8544-8551 8552-8559 8560-8567 8568-8575 8576-8583 8584-8591 8592-8599 8600-8607 8608-8615 8616-8623 8624-8631 8632-8639 8640-8647 8648-8655 8656-8663 8664-8671 8672-8679 8680-8687 8688-8695 8696-8703 8704-8711 8712-8719 8720-8727 8728-8735 8736-8743 8744-8751 8752-8759 8760-8767 8768-8775 8776-8783 8784-8791 8792-8799 8800-8807 8808-8815 8816-8823 8824-8831 8832-8839 8840-8847 8848-8855 8856-8863 8864-8871 8872-8879 8880-8887 8888-8895 8896-8903 8904-8911 8912-8919 8920-8927 8928-8935 8936-8943 8944-8951 8952-8959 8960-8967 8968-8975 8976-8983 8984-8991 8992-8999 9000-9007 9008-9015 9016-9023 9024-9031 9032-9039 9040-9047 9048-9055 9056-9063 9064-9071 9072-9079 9080-9087 9088-9095 9096-9103 9104-9111 9112-9119 9120-9127 9128-9135 9136-9143 9144-9151 9152-9159 9160-9167 9168-9175 9176-9183 9184-9191 9192-9199 9200-9207 9208-9215 9216-9223 9224-9231 9232-9239 9240-9247 9248-9255 9256-9263 9264-9271 9272-9279 9280-9287 9288-9295 9296-9303 9304-9311 9312-9319 9320-9327 9328-9335 9336-9343 9344-9351 9352-9359 9360-9367 9368-9375 9376-9383 9384-9391 9392-9399 9400-9407 9408-9415 9416-9423 9424-9431 9432-9439 9440-9447 9448-9455 9456-9463 9464-9471 9472-9479 9480-9487 9488-9495 9496-9503 9504-9511 9512-9519 9520-9527 9528-9535 9536-9543 9544-9551 9552-9559 9560-9567 9568-9575 9576-9583 9584-9591 9592-9599 9600-9607 9608-9615 9616-9623 9624-9631 9632-9639 9640-9647 9648-9655 9656-9663 9664-9671 9672-9679 9680-9687 9688-9695 9696-9703 9704-9711 9712-9719 9720-9727 9728-9735 9736-9743 9744-9751 9752-9759 9760-9767 9768-9775 9776-9783 9784-9791 9792-9799 9800-9807 9808-9815 9816-9823 9824-9831 9832-9839 9840-9847 9848-9855 9856-9863 9864-9871 9872-9879

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

STATION NUMBER: 105420 STATION NAME: HAWAII AAF GERMANY

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

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 56-60 TOTAL % MEAN WIND

N .9 1.9 1.1

NNE 1.7 .6 .8 .5

NE .3 .6 .9

ENE .2 1.3 .2

E .8 2.0 .9 .2

ESE 1.3 1.3 .8

SE .8 1.1 .6 .2

SSE 3.0 3.1 .9 .2

S 2.5 4.4 2.0 .9

SSW 1.3 2.7 5.3 2.0 .2

SW .2 2.5 6.4 1.3

WSW .3 .8 2.8 1.4

W .8 .9 1.9 .9

WNW .2 .9 .8 .2

NW .3 .8 .2 .2

NNW .9 1.1 .5 .2

VARIABLE .2 .2 2.0 .5 .2

CALM

TOTALS 15.5 26.1 28.1 8.4 .2 .2

TOTAL NUMBER OF OBSERVATIONS: 640

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

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JAN HOURS(LST): 1800-2000

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 56-60 TOTAL MEAN WIND

N .7 .6 .2

NNE .7 .9 .7

NE .6 .4 1.1

EVE .7 1.7 .7

E 1.9 1.1 .7 .2

ESE 2.4 1.1 .4

SE .9 1.3 1.3

SSE 1.7 2.2 1.1 .4

S 2.6 3.9 3.6

SSW .7 3.4 4.9 1.5

SW .4 2.6 5.8 2.2 .2

WSW .2 .6 2.1 1.3

W .2 1.3 .9 .4

WNW .2 .9 .6

NW .4 1.1 .2

NNW .5 .9 .4

VARIABLE .6 .4

CALM .6 .4

TOTALS 15.0 24.1 25.0 6.5 .2

29.2 9.2

100.0 4.5

TOTAL NUMBER OF OBSERVATIONS: 535

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

U: 77,81-86
HOURS(LST): 2100-2300

WIND SPEED IN KNOTS

[illegible]

3.0

4.0

	2.9	3.4
" "	,	,

[illegible]

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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	1.7	6	2.3	2.3
ESE				
ESE				

Series	1950	1951	1952	1953	1954
1. Total	100.0	100.0	100.0	100.0	100.0
2. Government	40.0	40.0	40.0	40.0	40.0
3. Private	60.0	60.0	60.0	60.0	60.0

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																								
1990	4.5	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.2	0.8	0.4	0.0	-0.4	-0.8	-1.2	-1.6	-2.0	-2.4	-2.8	-3.2	-3.6	-4.0	-4.4	-4.8	-5.2	-5.6	-6.0	-6.4	-6.8	-7.2	-7.6	-8.0	-8.4	-8.8	-9.2	-9.6	-10.0	-10.4	-10.8	-11.2	-11.6	-12.0	-12.4	-12.8	-13.2	-13.6	-14.0	-14.4	-14.8	-15.2	-15.6	-16.0	-16.4	-16.8	-17.2	-17.6	-18.0	-18.4	-18.8	-19.2	-19.6	-20.0	-20.4	-20.8	-21.2	-21.6	-22.0	-22.4	-22.8	-23.2	-23.6	-24.0	-24.4	-24.8	-25.2	-25.6	-26.0	-26.4	-26.8	-27.2	-27.6	-28.0	-28.4	-28.8	-29.2	-29.6	-30.0	-30.4	-30.8	-31.2	-31.6	-32.0	-32.4	-32.8	-33.2	-33.6	-34.0	-34.4	-34.8	-35.2	-35.6	-36.0	-36.4	-36.8	-37.2	-37.6	-38.0	-38.4	-38.8	-39.2	-39.6	-40.0	-40.4	-40.8	-41.2	-41.6	-42.0	-42.4	-42.8	-43.2	-43.6	-44.0	-44.4	-44.8	-45.2	-45.6	-46.0	-46.4	-46.8	-47.2	-47.6	-48.0	-48.4	-48.8	-49.2	-49.6	-50.0	-50.4	-50.8	-51.2	-51.6	-52.0	-52.4	-52.8	-53.2	-53.6	-54.0	-54.4	-54.8	-55.2	-55.6	-56.0	-56.4	-56.8	-57.2	-57.6	-58.0	-58.4	-58.8	-59.2	-59.6	-60.0	-60.4	-60.8	-61.2	-61.6	-62.0	-62.4	-62.8	-63.2	-63.6	-64.0	-64.4	-64.8	-65.2	-65.6	-66.0	-66.4	-66.8	-67.2	-67.6	-68.0	-68.4	-68.8	-69.2	-69.6	-70.0	-70.4	-70.8	-71.2	-71.6	-72.0	-72.4	-72.8	-73.2	-73.6	-74.0	-74.4	-74.8	-75.2	-75.6	-76.0	-76.4	-76.8	-77.2	-77.6	-78.0	-78.4	-78.8	-79.2	-79.6	-80.0	-80.4	-80.8	-81.2	-81.6	-82.0	-82.4	-82.8	-83.2	-83.6	-84.0	-84.4	-84.8	-85.2	-85.6	-86.0	-86.4	-86.8	-87.2	-87.6	-88.0	-88.4	-88.8	-89.2	-89.6	-90.0	-90.4	-90.8	-91.2	-91.6	-92.0	-92.4	-92.8	-93.2	-93.6	-94.0	-94.4	-94.8	-95.2	-95.6	-96.0	-96.4	-96.8	-97.2	-97.6	-98.0	-98.4	-98.8	-99.2	-99.6	-100.0	-100.4	-100.8	-101.2	-101.6	-102.0	-102.4	-102.8	-103.2	-103.6	-104.0	-104.4	-104.8	-105.2	-105.6	-106.0	-106.4	-106.8	-107.2	-107.6	-108.0	-108.4	-108.8	-109.2	-109.6	-110.0	-110.4	-110.8	-111.2	-111.6	-112.0	-112.4	-112.8	-113.

2.3	5.2	2.3	2.3
12.6	6.5		

SSW	1.1	2.9	4.6	.6	9.2	6.5

SW	.6	1.7	9.8	1.7	13.8	8.6
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1.1	.6	2.3	4.0	6.4
1.1	.6	2.3	4.0	6.4

1	1.7	.6	.6
2	1.7	.6	.6
3	1.7	.6	.6
4	1.7	.6	.6
5	1.7	.6	.6
6	1.7	.6	.6
7	1.7	.6	.6
8	1.7	.6	.6
9	1.7	.6	.6
10	1.7	.6	.6
11	1.7	.6	.6
12	1.7	.6	.6
13	1.7	.6	.6
14	1.7	.6	.6
15	1.7	.6	.6
16	1.7	.6	.6
17	1.7	.6	.6
18	1.7	.6	.6
19	1.7	.6	.6
20	1.7	.6	.6
21	1.7	.6	.6
22	1.7	.6	.6
23	1.7	.6	.6
24	1.7	.6	.6
25	1.7	.6	.6
26	1.7	.6	.6
27	1.7	.6	.6
28	1.7	.6	.6
29	1.7	.6	.6
30	1.7	.6	.6
31	1.7	.6	.6
32	1.7	.6	.6
33	1.7	.6	.6
34	1.7	.6	.6
35	1.7	.6	.6
36	1.7	.6	.6
37	1.7	.6	.6
38	1.7	.6	.6
39	1.7	.6	.6
40	1.7	.6	.6
41	1.7	.6	.6
42	1.7	.6	.6
43	1.7	.6	.6
44	1.7	.6	.6
45	1.7	.6	.6
46	1.7	.6	.6
47	1.7	.6	.6
48	1.7	.6	.6
49	1.7	.6	.6
50	1.7	.6	.6
51	1.7	.6	.6
52	1.7	.6	.6
53	1.7	.6	.6
54	1.7	.6	.6
55	1.7	.6	.6
56	1.7	.6	.6
57	1.7	.6	.6
58	1.7	.6	.6
59	1.7	.6	.6
60	1.7	.6	.6
61	1.7	.6	.6
62	1.7	.6	.6
63	1.7	.6	.6
64	1.7	.6	.6
65	1.7	.6	.6
66	1.7	.6	.6
67	1.7	.6	.6
68	1.7	.6	.6
69	1.7	.6	.6
70	1.7	.6	.6
71	1.7	.6	.6
72	1.7	.6	.6
73	1.7	.6	.6
74	1.7	.6	.6
75	1.7	.6	.6
76	1.7	.6	.6
77	1.7	.6	.6
78	1.7	.6	.6
79	1.7	.6	.6
80	1.7	.6	.6
81	1.7	.6	.6
82	1.7	.6	.6
83	1.7	.6	.6
84	1.7	.6	.6
85	1.7	.6	.6
86	1.7	.6	.6
87	1.7	.6	.6
88	1.7	.6	.6
89	1.7	.6	.6
90	1.7	.6	.6
91	1.7	.6	.6
92	1.7	.6	.6
93	1.7	.6	.6
94	1.7	.6	.6
95	1.7	.6	.6
96	1.7	.6	.6
97	1.7	.6	.6
98	1.7	.6	.6
99	1.7	.6	.6
100	1.7	.6	.6

	1.7	1.1	4.6	7.0
WVW	1.7	1.1	4.6	7.0

11

	MIN	MAX
0.6	0.6	13.0

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Table 1 Demographic characteristics of participants

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

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JAN HOURS (LST): ALL

WIND SPEED IN KNOTS												MEAN WIND
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	%
N	.8	.9	.5									2.3 4.6
NNE	1.0	.7	.7	.1								2.6 5.1
NE	.7	1.0	.6									2.3 4.8
ENE	1.0	1.3	.4									2.6 4.5
E	1.0	1.3	1.0	.1								3.3 5.3
ESE	1.2	.7	.3	.0								2.2 4.0
SE	.9	.8	.7	.0								2.3 5.2
SSE	2.0	2.6	1.4	.2								6.3 5.1
S	2.7	4.2	2.6	.5								10.0 5.5
SSW	1.0	2.9	4.7	2.2	.0							10.9 7.9
SW	.3	2.1	5.7	2.3	.0							10.4 8.8
WSW	.4	.9	2.0	1.1								4.5 8.2
W	.6	1.1	1.5	.6	.1							3.8 7.4
WNW	.3	.6	.6	.1								1.7 6.1
NW	.5	.7	.3	.2								1.7 5.6
NNW	1.2	.9	.6	.2								2.9 5.0
VARIABLE	.0	.1	1.8	.7	.1							2.7 10.2
CALM	////////////////////											27.5
TOTALS	15.7	22.9	25.4	8.2	.2	.0						100.0 4.7

TOTAL NUMBER OF OBSERVATIONS: 3149

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: FEB HOURS(LST): 0600-0800

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 56 TOTAL MEAN WIND

V 4.1 3.7 .9 8.7 4.0

NVE 1.4 2.1 1.1 4.6 4.9

NE 1.4 .7 1.1 3.2 4.9

ENE 1.8 2.8 .5 5.0 4.2

E 2.5 3.4 .7 6.7 4.2

ESE .5 .5 .9 3.0

SE .5 .5 2.0

SSE 1.6 .5 2.1 2.6

S 1.4 1.4 1.1 3.9 5.2

SSW .5 2.1 2.3 .5 5.3 7.1

SW .5 1.6 1.8 .2 4.1 6.9

WSW .5 .9 .7 .2 2.3 6.2

W .2 .7 .7 .2 .2 2.1 7.9

WNW .2 .2 .2 .5 1.1 8.2

WV .9 .2 1.1 2.6

NNW 1.4 .5 .7 2.5 4.2

VARIABLE .2 1.4 1.6 8.9

CALM 44.3

TOTALS 19.3 21.3 13.3 1.6 .2 100.0 2.9

TOTAL NUMBER OF OBSERVATIONS: 436

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

STATION NUMBER: 10542J STATION NAME: HAWAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0900-1100

WIND SPEED IN KNOTS
1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56 TOTAL MEAN
(DEGREES) % WIND

N	3.4	2.5	.8								6.8	3.9
NNE	2.2	3.2	1.5								7.0	4.7
NE	2.7	2.5	.8	.3							6.5	4.5
ENE	2.5	3.6	1.0	.2							7.3	4.7
E	1.9	2.5	1.2								5.6	4.4
ESE	.8	.7	1.4								2.9	5.5
SE	.8	.2	.2								1.2	3.1
SSE	.7	.5	1.2								2.4	5.7
S	1.0	2.5	.7	.7							4.9	6.0
SSW	1.4	.8	1.7	.8							4.8	6.9
SW	1.0	.7	2.2	.8	.3						5.1	8.2
WSW	.5		1.7	.2							2.4	7.3
W	.5	.2	1.0	.7							2.4	8.2
WNW	.3	.3	.3		.2						1.2	7.4
WW	.3	.8		.3							1.5	6.7
NNW	1.0	2.2	.3	.3							3.9	5.3

VARIABLE 1.0 .3 1.4 9.4

CALM 32.9

TOTALS 21.2 23.4 17.1 4.8 .5 100.0 3.7

TOTAL NUMBER OF OBSERVATIONS: 539

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

STATION NUMBER: 106423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 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	56	
N	2.9	2.7	1.5								7.2	4.5
NNE	1.0	4.3	3.1	.3							8.7	5.9
NE	1.0	3.1	.7								4.8	4.8
ENE	1.5	3.1	1.7	.2							6.5	5.4
E	.9	3.4	3.8	.3							8.4	6.4
ESE	.7	.9	2.1								3.6	6.4
SE	.5	.5	.3								1.4	5.1
SSE	.3	1.7	.7								2.7	4.9
S	1.2	1.5	.7								3.4	4.9
SSW	1.4	1.5	2.9	1.4							7.2	7.5
SW	.3	1.9	2.4	1.0	.3						6.0	8.7
WSW	.9	.7	.5	.2							2.2	5.3
W	.5	.5	2.6	.9							4.4	8.4
WNW	.3	.5	.2	.3							1.4	6.8
W	1.0	1.5	.7	.3							3.6	5.7
NNW	2.7	2.7	.7	.3	.2						6.7	4.8
VARIABLE	.5		2.4	1.0							3.9	8.6
CALM											100.0	5.1
TOTALS	17.8	30.6	26.8	6.3	.5							

TOTAL NUMBER OF OBSERVATIONS: 585

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: FEB HOURS(LST): 1500-1700

WIND SPEED IN KNOTS

1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56 TOTAL

DIRECTION (DEGREES)

N 2.4 2.2 1.2 .2

NNE 1.4 2.5 4.6 .7

NE 1.9 1.9 1.2 .5

ENE 1.7 3.1 1.7 .2

E 2.7 3.7 2.2 .3

ESE 1.2 1.4 2.4 .2

SE .8 .8 .3

SSE 1.9 1.2 .3

S 1.7 1.9 1.0 .2

SSW .3 1.0 3.1 .3

SW 1.2 .8 1.9 1.2

WSW .8 .5 1.0 .7

W .7 1.0 2.5 .3 .3

WNW .7 .2 1.0 .5

NW 1.5 2.0 .2 .2

NNW .8 2.4 1.4 .2

VARIABLE .5 1.4 .3

CALM

TOTALS 21.5 27.2 27.3 5.9 .3

TOTAL NUMBER OF OBSERVATIONS: 539

MEAN WIND

5.9 4.7

9.2 6.8

5.4 5.5

6.6 5.2

9.0 5.1

4.9 6.4

2.0 4.2

3.4 3.5

4.8 4.8

4.8 7.7

5.1 7.7

3.1 7.2

5.3 9.0

2.4 7.4

3.9 4.3

4.8 5.6

2.2 8.3

17.3

100.0 5.0

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

STATION NUMBER: 1054.1 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: FEB HOURS(LST): 1800-2000

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 56-59 60-63 64-67 68-71 72-75 76-79 80-83 84-87 88-91 92-95 96-99 100-103 104-107 108-111 112-115 116-119 120-123 124-127 128-131 132-135 136-139 140-143 144-147 148-151 152-155 156-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-211 212-215 216-219 220-223 224-227 228-231 232-235 236-239 240-243 244-247 248-251 252-255 256-259 260-263 264-267 268-271 272-275 276-279 280-283 284-287 288-291 292-295 296-299 300-303 304-307 308-311 312-315 316-319 320-323 324-327 328-331 332-335 336-339 340-343 344-347 348-351 352-355 356-359 360-363 364-367 368-371 372-375 376-379 380-383 384-387 388-391 392-395 396-399 400-403 404-407 408-411 412-415 416-419 420-423 424-427 428-431 432-435 436-439 440-443 444-447 448-451 452-455 456-459 460-463 464-467 468-471 472-475 476-479 480-483 484-487 488-491 492-495 496-499 500-503 504-507 508-511 512-515 516-519 520-523 524-527 528-531 532-535 536-539 540-543 544-547 548-551 552-555 556-559 560-563 564-567 568-571 572-575 576-579 580-583 584-587 588-591 592-595 596-599 600-603 604-607 608-611 612-615 616-619 620-623 624-627 628-631 632-635 636-639 640-643 644-647 648-651 652-655 656-659 660-663 664-667 668-671 672-675 676-679 680-683 684-687 688-691 692-695 696-699 700-703 704-707 708-711 712-715 716-719 720-723 724-727 728-731 732-735 736-739 740-743 744-747 748-751 752-755 756-759 760-763 764-767 768-771 772-775 776-779 780-783 784-787 788-791 792-795 796-799 800-803 804-807 808-811 812-815 816-819 820-823 824-827 828-831 832-835 836-839 840-843 844-847 848-851 852-855 856-859 860-863 864-867 868-871 872-875 876-879 880-883 884-887 888-891 892-895 896-899 900-903 904-907 908-911 912-915 916-919 920-923 924-927 928-931 932-935 936-939 940-943 944-947 948-951 952-955 956-959 960-963 964-967 968-971 972-975 976-979 980-983 984-987 988-991 992-995 996-999 1000-1003 1004-1007 1008-1011 1012-1015 1016-1019 1020-1023 1024-1027 1028-1031 1032-1035 1036-1039 1040-1043 1044-1047 1048-1051 1052-1055 1056-1059 1060-1063 1064-1067 1068-1071 1072-1075 1076-1079 1080-1083 1084-1087 1088-1091 1092-1095 1096-1099 1100-1103 1104-1107 1108-1111 1112-1115 1116-1119 1120-1123 1124-1127 1128-1131 1132-1135 1136-1139 1140-1143 1144-1147 1148-1151 1152-1155 1156-1159 1160-1163 1164-1167 1168-1171 1172-1175 1176-1179 1180-1183 1184-1187 1188-1191 1192-1195 1196-1199 1200-1203 1204-1207 1208-1211 1212-1215 1216-1219 1220-1223 1224-1227 1228-1231 1232-1235 1236-1239 1240-1243 1244-1247 1248-1251 1252-1255 1256-1259 1260-1263 1264-1267 1268-1271 1272-1275 1276-1279 1280-1283 1284-1287 1288-1291 1292-1295 1296-1299 1300-1303 1304-1307 1308-1311 1312-1315 1316-1319 1320-1323 1324-1327 1328-1331 1332-1335 1336-1339 1340-1343 1344-1347 1348-1351 1352-1355 1356-1359 1360-1363 1364-1367 1368-1371 1372-1375 1376-1379 1380-1383 1384-1387 1388-1391 1392-1395 1396-1399 1400-1403 1404-1407 1408-1411 1412-1415 1416-1419 1420-1423 1424-1427 1428-1431 1432-1435 1436-1439 1440-1443 1444-1447 1448-1451 1452-1455 1456-1459 1460-1463 1464-1467 1468-1471 1472-1475 1476-1479 1480-1483 1484-1487 1488-1491 1492-1495 1496-1499 1500-1503 1504-1507 1508-1511 1512-1515 1516-1519 1520-1523 1524-1527 1528-1531 1532-1535 1536-1539 1540-1543 1544-1547 1548-1551 1552-1555 1556-1559 1560-1563 1564-1567 1568-1571 1572-1575 1576-1579 1580-1583 1584-1587 1588-1591 1592-1595 1596-1599 1600-1603 1604-1607 1608-1611 1612-1615 1616-1619 1620-1623 1624-1627 1628-1631 1632-1635 1636-1639 1640-1643 1644-1647 1648-1651 1652-1655 1656-1659 1660-1663 1664-1667 1668-1671 1672-1675 1676-1679 1680-1683 1684-1687 1688-1691 1692-1695 1696-1699 1700-1703 1704-1707 1708-1711 1712-1715 1716-1719 1720-1723 1724-1727 1728-1731 1732-1735 1736-1739 1740-1743 1744-1747 1748-1751 1752-1755 1756-1759 1760-1763 1764-1767 1768-1771 1772-1775 1776-1779 1780-1783 1784-1787 1788-1791 1792-1795 1796-1799 1800-1803 1804-1807 1808-1811 1812-1815 1816-1819 1820-1823 1824-1827 1828-1831 1832-1835 1836-1839 1840-1843 1844-1847 1848-1851 1852-1855 1856-1859 1860-1863 1864-1867 1868-1871 1872-1875 1876-1879 1880-1883 1884-1887 1888-1891 1892-1895 1896-1899 1900-1903 1904-1907 1908-1911 1912-1915 1916-1919 1920-1923 1924-1927 1928-1931 1932-1935 1936-1939 1940-1943 1944-1947 1948-1951 1952-1955 1956-1959 1960-1963 1964-1967 1968-1971 1972-1975 1976-1979 1980-1983 1984-1987 1988-1991 1992-1995 1996-1999 2000-2003 2004-2007 2008-2011 2012-2015 2016-2019 2020-2023 2024-2027 2028-2031 2032-2035 2036-2039 2040-2043 2044-2047 2048-2051 2052-2055 2056-2059 2060-2063 2064-2067 2068-2071 2072-2075 2076-2079 2080-2083 2084-2087 2088-2091 2092-2095 2096-2099 2100-2103 2104-2107 2108-2111 2112-2115 2116-2119 2120-2123 2124-2127 2128-2131 2132-2135 2136-2139 2140-2143 2144-2147 2148-2151 2152-2155 2156-2159 2160-2163 2164-2167 2168-2171 2172-2175 2176-2179 2180-2183 2184-2187 2188-2191 2192-2195 2196-2199 2200-2203 2204-2207 2208-2211 2212-2215 2216-2219 2220-2223 2224-2227 2228-2231 2232-2235 2236-2239 2240-2243 2244-2247 2248-2251 2252-2255 2256-2259 2260-2263 2264-2267 2268-2271 2272-2275 2276-2279 2280-2283 2284-2287 2288-2291 2292-2295 2296-2299 2300-2303 2304-2307 2308-2311 2312-2315 2316-2319 2320-2323 2324-2327 2328-2331 2332-2335 2336-2339 2340-2343 2344-2347 2348-2351 2352-2355 2356-2359 2360-2363 2364-2367 2368-2371 2372-2375 2376-2379 2380-2383 2384-2387 2388-2391 2392-2395 2396-2399 2400-2403 2404-2407 2408-2411 2412-2415 2416-2419 2420-2423 2424-2427 2428-2431 2432-2435 2436-2439 2440-2443 2444-2447 2448-2451 2452-2455 2456-2459 2460-2463 2464-2467 2468-2471 2472-2475 2476-2479 2480-2483 2484-2487 2488-2491 2492-2495 2496-2499 2500-2503 2504-2507 2508-2511 2512-2515 2516-2519 2520-2523 2524-2527 2528-2531 2532-2535 2536-2539 2540-2543 2544-2547 2548-2551 2552-2555 2556-2559 2560-2563 2564-2567 2568-2571 2572-2575 2576-2579 2580-2583 2584-2587 2588-2591 2592-2595 2596-2599 2600-2603 2604-2607 2608-2611 2612-2615 2616-2619 2620-2623 2624-2627 2628-2631 2632-2635 2636-2639 2640-2643 2644-2647 2648-2651 2652-2655 2656-2659 2660-2663 2664-2667 2668-2671 2672-2675 2676-2679 2680-2683 2684-2687 2688-2691 2692-2695 2696-2699 2700-2703 2704-2707 2708-2711 2712-2715 2716-2719 2720-2723 2724-2727 2728-2731 2732-2735 2736-2739 2740-2743 2744-2747 2748-2751 2752-2755 2756-2759 2760-2763 2764-2767 2768-2771 2772-2775 2776-2779 2780-2783 2784-2787 2788-2791 2792-2795 2796-2799 2800-2803 2804-2807 2808-2811 2812-2815 2816-2819 2820-2823 2824-2827 2828-2831 2832-2835 2836-2839 2840-2843 2844-2847 2848-2851 2852-2855 2856-2859 2860-2863 2864-2867 2868-2871 2872-2875 2876-2879 2880-2883 2884-2887 2888-2891 2892-2895 2896-2899 2900-2903 2904-2907 2908-2911 2912-2915 2916-2919 2920-2923 2924-2927 2928-2931 2932-2935 2936-2939 2940-2943 2944-2947 2948-2951 2952-2955 2956-2959 2960-2963 2964-2967 2968-2971 2972-2975 2976-2979 2980-2983 2984-2987 2988-2991 2992-2995 2996-2999 3000-3003 3004-3007 3008-3011 3012-3015 3016-3019 3020-3023 3024-3027 3028-3031 3032-3035 3036-3039 3040-3043 3044-3047 3048-3051 3052-3055 3056-3059 3060-3063 3064-3067 3068-3071 3072-3075 3076-3079 3080-3083 3084-3087 3088-3091 3092-3095 3096-3099 3100-3103 3104-3107 3108-3111 3112-3115 3116-3119 3120-3123 3124-3127 3128-3131 3132-3135 3136-3139 3140-3143 3144-3147 3148-3151 3152-3155 3156-3159 3160-3163 3164-3167 3168-3171 3172-3175 3176-3179 3180-3183 3184-3187 3188-3191 3192-3195 3196-3199 3200-3203 3204-3207 3208-3211 3212-3215 3216-3219 3220-3223 3224-3227 3228-3231 3232-3235 3236-3239 3240-3243 3244-3247 3248-3251 3252-3255 3256-3259 3260-3263 3264-3267 3268-3271 3272-3275 3276-3279 3280-3283 3284-3287 3288-3291 3292-3295 3296-3299 3300-3303 3304-3307 3308-3311 3312-3315 3316-3319 3320-3323 3324-3327 3328-3331 3332-3335 3336-3339 3340-3343 3344-3347 3348-3351 3352-3355 3356-3359 3360-3363 3364-3367 3368-3371 3372-3375 3376-3379 3380-3383 3384-3387 3388-3391 3392-3395 3396-3399 3400-3403 3404-3407 3408-3411 3412-3415 3416-3419 3420-3423 3424-3427 3428-3431 3432-3435 3436-3439 3440-3443 3444-3447 3448-3451 3452-3455 3456-3459 3460-3463 3464-3467 3468-3471 3472-3475 3476-3479 3480-3483 3484-3487 3488-3491 3492-3495 3496-3499 3500-3503 3504-3507 3508-3511 3512-3515 3516-3519 3520-3523 3524-3527 3528-3531 3532-3535 3536-3539 3540-3543 3544-3547 3548-3551 3552-3555 3556-3559 3560-3563 3564-3567 3568-3571 3572-3575 3576-3579 3580-3583 3584-3587 3588-3591 3592-3595 3596-3599 3600-3603 3604-3607 3608-3611 3612-3615 3616-3619 3620-3623 3624-3627 3628-3631 3632-3635 3636-3639 3640-3643 3644-3647 3648-3651 3652-3655 3656-3659 3660-3663 3664-3667 3668-3671 3672-3675 3676-3679 3680-3683 3684-3687 3688-3691 3692-3695 3696-3699 3700-3703 3704-3707 3708-3711 3712-3715 3716-3719 3720-3723 3724-3727 3728-3731 3732-3735 3736-3739 3740-3743 3744-3747 3748-3751 3752-3755 3756-3759 3760-3763 3764-3767 3768-3771 3772-3775 3776-3779 3780-3783 3784-3787 3788-3791 3792-3795 3796-3799 3800-3803 3804-3807 3808-3811 3812-3815 3816-3819 3820-3823 3824-3827 3828-3831 3832-3835 3836-3839 3840-3843 3844-3847 3848-3851 3852-3855 3856-3859 3860-3863 3864-3867 3868-3871 3872-3875 3876-3879 3880-3883 3884-3887 3888-3891 3892-3895 3896-3899 3900-3903 3904-3907 3908-3911 3912-3915 3916-3919 3920-3923 3924-3927 3928-3931 3932-3935 3936-3939 3940-3943 3944-3947 3948-3951 3952-3955 3956-3959 3960-3963 3964-3967 3968-3971 3972-3975 3976-3979 3980-3983 3984-3987 3988-3991 3992-3995 3996-3999 4000-4003 4004-4007 4008-4011 4012-4015 4016-4019 4020-4023 4024-4027 4028-4031 4032-4035 4036-4039 4040-4043 4044-4047 4048-4051 4052-4055 4056-4059 4060-4063 4064-4067 4068-4071 4072-4075 4076-4079 4080-4083 4084-4087 4088-4091 4092-4095 4096-4099 4100-4103 4104-4107 4108-4111 4112-4115 4116-4119 4120-4123 4124-4127 4128-4131 4132-4135 4136-4139 4140-4143 4144-4147 4148-4151 4152-4155 4156-4159 4160-4163 4164-4167 4168-4171 4172-4175 4176-4179 4180-4183 4184-4187 4188-4191 4192-4195 4196-4199 4200-4203 4204-4207 4208-4211 4212-4215 4216-4219 4220-4223 4224-4227 4228-4231 4232-4235 4236-4239 4240-4243 4244-4247 4248-4251 4252-4255 4256-4259 4260-4263 4264-4267 4268-4271 4272-4275 4276-4279 4280-4283 4284-4287 4288-4291 4292-4295 4296-4299 4300-4303 4304-4307 4308-4311 4312-4315 4316-4319 4320-4323 4324-4327 4328-4331 4332-4335 4336-4339 4340-4343 4344-4347 4348-4351 4352-4355 4356-4359 4360-4363 4364-4367 4368-4371 4372-4375 4376-4379 4380-4383 4384-4387 4388-4391 4392-4395 4396-4399 4400-4403 4404-4407 4408-4411 4412-4415 4416-4419 4420-4423 4424-4427 4428-4431 4432-4435 4436-4439 4440-4443 4444-4447 4448-4451 4452-4455 4456-4459 4460-4463 4464-4467 4468-4471 4472-4475 4476-4479 4480-4483 4484-4487 4488-4491 4492-4495 4496-4499 4500-4503 4504-4507 4508-4511 4512-4515 4516-4519 4520-4523 4524-4527 4528-4531 4532-4535 4536-4539 4540-4543 4544-4547 4548-4551 4552-4555 4556-4559 4560-4563 4564-4567 4568-4571 4572-4575 4576-4579 4580-4583 4584-4587 4588-4591 4592-4595 4596-4599 4600-4603 4604-4607 4608-4611 4612-4615 4616-4619 4620-4623 4624-4627 4628-4631 4632-4635 4636-4639 4640-4643 4644-4647 4648-4651 4652-4655 4656-4659 4660-4663 4664-4667 4668-4671 4672-4675 4676-4679 4680-4683 4684-4687 4688-4691 4692-4695 4696-4699 4700-4703 4704-4707 4708-4711 4712-4715 4716-4719 4720-4723 4724-4727 4728-4731 4732-4735 4736-4739 4740-4743 4744-4747 4748-4751 4752-4755 4756-4759 4760-4763 4764-4767 4768-4771 4772-4775 4776-4779 4780-4783 4784-4787 4788-4791 4792-4795 4796-4799 4800-4803 4804-4807 4808-4811 4812-4815 4816-4819 4820-4823 4824-4827 4828-4831 4832-4835 4836-4839 4840-4843 4844-4847 4848-4851 4852-4855 4856-4859 4860-4863 4864-4867 4868-4871 4872-4875 4876-4879 4880-4883 4884-4887 4888-4891 4892-4895 4896-4899 4900-4903 4904-4907 4908-4911 4912-4915 4916-4919 4920-4923 4924-4927 4928-4931 4932-4935 4936-4939 4940-4943 4944-4947 4948-4951 4952-4955 4956-4959 4960-4963 4964-4967 4968-4971 4972-4975 4976-4979 4980-4983 4984-4987 4988-4991 4992-4995 4996-4999 5000-5003 5004-5007 5008-5011 5012-5015 5016-5019 5020-5023 5024-5027 5028-5031 5032-5035 5036-5039 5040-5043 5044-5047 5048-5051 5052-5055 5056-5059 5060-5063 5064-5067 5068-5071 5072-5075 5076-507

STATION NUMBER: 195423 STATION NAME: HAYAU AAF GERMANY
PERIOD OF RECORD: 79-86
MONTH: FEB HOURS(LST): 2100-2300

STATION NUMBER: 195423 STATION NAME: HAYAU AAF GERMANY
PERIOD OF RECORD: 79-86
MONTH: FEB HOURS(LST): 2100-2300

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WIND SPEED IN KNOTS

WIND SPEED IN KNOTS

DIRECTION	1-3	4-6	7-10	11-16	17-21	22-27	28-33

(DEGREES) |

N	2.2	3.9	.6
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	2.8	8.4	1.7
NVE			

1F	1.7	4.5	3.9
1F	1.7	4.5	3.9

[illegible]

ENE	100	100	100

1.1	1.1	2.2	1.1
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ESE	1	1.1	.6
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SE	0.6	1.7
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9	9	322
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[illegible]

1.1	1.1	MS
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MS	9°	9°	9°
MS	9°	9°	9°

MSK 1.6 1.1

1.7	6	6
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2

2. 2. 2.

9°	1	HN
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MMN	1.1	.6
MMN	1.1	.6

VARIABLE	
1. Age	25-34
2. Sex	Male
3. Education	High School
4. Income	\$10,000-\$14,999
5. Marital Status	Married
6. Religion	Catholic
7. Political Affiliation	Democrat
8. Employment Status	Unemployed
9. Health Status	Good
10. Living Arrangements	Alone
11. Travel Frequency	Never
12. Travel Purpose	Business
13. Travel Duration	1-2 weeks
14. Travel Companions	Family
15. Travel Expenses	\$500-\$999
16. Travel Satisfaction	Satisfied
17. Travel Frequency	Never
18. Travel Purpose	Business
19. Travel Duration	1-2 weeks
20. Travel Companions	Family
21. Travel Expenses	\$500-\$999
22. Travel Satisfaction	Satisfied

CALM

TOTALS	15.6	26.8	14.0	2.8
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TOTAL NUMBER OF OBSERVATIONS: 179

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

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	3.1	2.9	1.2	.0							7.2	4.2
NNE	1.7	3.6	2.8	.3							8.4	5.8
N	1.8	2.2	1.4	.2							5.6	5.1
E	2.3	2.8	1.1	.1							6.0	4.8
E	2.4	3.1	1.6	.1							7.2	4.8
ESE	1.1	.8	1.3	.1							3.2	5.5
SE	.8	.5	.2								1.4	3.8
SSE	1.1	1.3	.5								2.9	4.2
S	1.2	1.7	.9	.2							3.9	5.2
SSW	.8	1.3	2.3	.8							5.1	7.4
SW	.7	1.2	1.8	.8	.1						4.6	7.9
WSW	.6	.6	.9	.4	.0						2.5	6.8
W	.5	.9	1.6	.4	.1	.1					3.7	8.0
WNW	.3	.5	.4	.3	.0						1.5	7.2
NW	.8	1.0	.2	.2							2.2	5.1
NNW	1.4	1.6	.6	.2	.0						3.8	4.9

VARIABLE .1 .1 1.2 .4
1.9 8.7

CALM 28.8

TOTALS 20.1 26.1 20.1 4.5 .4 .1 100.0 4.0

TOTAL NUMBER OF OBSERVATIONS: 2916

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 7-56
 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	56-59	
N	.8	.8	1.2	.6							3.4	7.1
NNE	1.2	1.0									2.2	3.5
NE	1.4	.2	1.0								2.6	4.3
ENE	.8	1.8	.2								3.8	4.1
E	1.2										1.2	2.2
ESE												
SE	.4	.6									1.0	3.6
SSE	1.2	2.6	2.2								6.0	5.3
S	1.6	4.8	2.6								9.1	8.2
SSW	.4	2.2	2.2	.0							8.6	7.1
SW	.6	2.0	6.5	.2							9.3	7.8
WSW	1.2	1.6	.4	.6							3.8	8.8
W	.4	.6	.6								1.6	8.8
WNW		.4	.2								.6	6.3
W	.4	.4	.0								1.6	8.6
NNW	1.8	.0	.6	.2							3.4	4.7
VARIABLE	1.2 1.0										2.2	10.2
CALC	1.2 1.0										43.3	77.77
TOTALS	13.5	20.0	19.8	3.4							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 496

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

STATION NUMBER: 105425 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: MAR HOURS (LST): 0900-1100

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-60	TOTAL	MEAN WIND
N	2.1	1.8	1.3	.6								5.7	5.8
NNE	.7	1.2	1.5									3.4	5.9
NE	.3	.4	.3	.3								1.3	6.9
ENE	1.3	2.1	.6	.1								4.1	4.8
E	1.2	1.3	.6	.1								3.2	4.9
ESC	.5	.1										.7	3.8
SE	.7	.6	.7	.3								2.4	6.1
SSE	1.9	1.6	.7	.3								4.6	4.8
S	2.8	2.1	3.1	.9								8.8	5.9
SSW	.7	2.4	4.0	2.2								9.3	8.0
SW	.5	1.5	6.0	2.8								10.9	8.9
WSW	.4	.6	2.1	1.5								4.6	8.8
W	.4	.9	1.0	.3								2.6	6.8
WNW	.1	.4	1.2	.4								2.2	8.4
W	1.2	.9	.6									2.6	4.4
NNW	2.2	1.3	.9	.4								4.9	5.0

VARIABLE	.1	2.9	1.5	.4								5.0	10.6
CALM												23.7	17.7
TOTALS	17.5	19.1	27.5	11.8	.4							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 680

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: MAR HOURS(LST): 1500-1700

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 56-59 60-63 64-67 68-71 72-75 76-79 80-83 84-87 88-91 92-95 96-99 100-103 104-107 108-111 112-115 116-119 120-123 124-127 128-131 132-135 136-139 140-143 144-147 148-151 152-155 156-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-211 212-215 216-219 220-223 224-227 228-231 232-235 236-239 240-243 244-247 248-251 252-255 256-259 260-263 264-267 268-271 272-275 276-279 280-283 284-287 288-291 292-295 296-299 300-303 304-307 308-311 312-315 316-319 320-323 324-327 328-331 332-335 336-339 340-343 344-347 348-351 352-355 356-359 360-363 364-367 368-371 372-375 376-379 380-383 384-387 388-391 392-395 396-399 400-403 404-407 408-411 412-415 416-419 420-423 424-427 428-431 432-435 436-439 440-443 444-447 448-451 452-455 456-459 460-463 464-467 468-471 472-475 476-479 480-483 484-487 488-491 492-495 496-499 500-503 504-507 508-511 512-515 516-519 520-523 524-527 528-531 532-535 536-539 540-543 544-547 548-551 552-555 556-559 560-563 564-567 568-571 572-575 576-579 580-583 584-587 588-591 592-595 596-599 600-603 604-607 608-611 612-615 616-619 620-623 624-627 628-631 632-635 636-639 640-643 644-647 648-651 652-655 656-659 660-663 664-667 668-671 672-675 676-679 680-683 684-687 688-691 692-695 696-699 700-703 704-707 708-711 712-715 716-719 720-723 724-727 728-731 732-735 736-739 740-743 744-747 748-751 752-755 756-759 760-763 764-767 768-771 772-775 776-779 780-783 784-787 788-791 792-795 796-799 800-803 804-807 808-811 812-815 816-819 820-823 824-827 828-831 832-835 836-839 840-843 844-847 848-851 852-855 856-859 860-863 864-867 868-871 872-875 876-879 880-883 884-887 888-891 892-895 896-899 900-903 904-907 908-911 912-915 916-919 920-923 924-927 928-931 932-935 936-939 940-943 944-947 948-951 952-955 956-959 960-963 964-967 968-971 972-975 976-979 980-983 984-987 988-991 992-995 996-999 1000-1003 1004-1007 1008-1011 1012-1015 1016-1019 1020-1023 1024-1027 1028-1031 1032-1035 1036-1039 1040-1043 1044-1047 1048-1051 1052-1055 1056-1059 1060-1063 1064-1067 1068-1071 1072-1075 1076-1079 1080-1083 1084-1087 1088-1091 1092-1095 1096-1099 1100-1103 1104-1107 1108-1111 1112-1115 1116-1119 1120-1123 1124-1127 1128-1131 1132-1135 1136-1139 1140-1143 1144-1147 1148-1151 1152-1155 1156-1159 1160-1163 1164-1167 1168-1171 1172-1175 1176-1179 1180-1183 1184-1187 1188-1191 1192-1195 1196-1199 1200-1203 1204-1207 1208-1211 1212-1215 1216-1219 1220-1223 1224-1227 1228-1231 1232-1235 1236-1239 1240-1243 1244-1247 1248-1251 1252-1255 1256-1259 1260-1263 1264-1267 1268-1271 1272-1275 1276-1279 1280-1283 1284-1287 1288-1291 1292-1295 1296-1299 1300-1303 1304-1307 1308-1311 1312-1315 1316-1319 1320-1323 1324-1327 1328-1331 1332-1335 1336-1339 1340-1343 1344-1347 1348-1351 1352-1355 1356-1359 1360-1363 1364-1367 1368-1371 1372-1375 1376-1379 1380-1383 1384-1387 1388-1391 1392-1395 1396-1399 1400-1403 1404-1407 1408-1411 1412-1415 1416-1419 1420-1423 1424-1427 1428-1431 1432-1435 1436-1439 1440-1443 1444-1447 1448-1451 1452-1455 1456-1459 1460-1463 1464-1467 1468-1471 1472-1475 1476-1479 1480-1483 1484-1487 1488-1491 1492-1495 1496-1499 1500-1503 1504-1507 1508-1511 1512-1515 1516-1519 1520-1523 1524-1527 1528-1531 1532-1535 1536-1539 1540-1543 1544-1547 1548-1551 1552-1555 1556-1559 1560-1563 1564-1567 1568-1571 1572-1575 1576-1579 1580-1583 1584-1587 1588-1591 1592-1595 1596-1599 1600-1603 1604-1607 1608-1611 1612-1615 1616-1619 1620-1623 1624-1627 1628-1631 1632-1635 1636-1639 1640-1643 1644-1647 1648-1651 1652-1655 1656-1659 1660-1663 1664-1667 1668-1671 1672-1675 1676-1679 1680-1683 1684-1687 1688-1691 1692-1695 1696-1699 1700-1703 1704-1707 1708-1711 1712-1715 1716-1719 1720-1723 1724-1727 1728-1731 1732-1735 1736-1739 1740-1743 1744-1747 1748-1751 1752-1755 1756-1759 1760-1763 1764-1767 1768-1771 1772-1775 1776-1779 1780-1783 1784-1787 1788-1791 1792-1795 1796-1799 1800-1803 1804-1807 1808-1811 1812-1815 1816-1819 1820-1823 1824-1827 1828-1831 1832-1835 1836-1839 1840-1843 1844-1847 1848-1851 1852-1855 1856-1859 1860-1863 1864-1867 1868-1871 1872-1875 1876-1879 1880-1883 1884-1887 1888-1891 1892-1895 1896-1899 1900-1903 1904-1907 1908-1911 1912-1915 1916-1919 1920-1923 1924-1927 1928-1931 1932-1935 1936-1939 1940-1943 1944-1947 1948-1951 1952-1955 1956-1959 1960-1963 1964-1967 1968-1971 1972-1975 1976-1979 1980-1983 1984-1987 1988-1991 1992-1995 1996-1999 2000-2003 2004-2007 2008-2011 2012-2015 2016-2019 2020-2023 2024-2027 2028-2031 2032-2035 2036-2039 2040-2043 2044-2047 2048-2051 2052-2055 2056-2059 2060-2063 2064-2067 2068-2071 2072-2075 2076-2079 2080-2083 2084-2087 2088-2091 2092-2095 2096-2099 2100-2103 2104-2107 2108-2111 2112-2115 2116-2119 2120-2123 2124-2127 2128-2131 2132-2135 2136-2139 2140-2143 2144-2147 2148-2151 2152-2155 2156-2159 2160-2163 2164-2167 2168-2171 2172-2175 2176-2179 2180-2183 2184-2187 2188-2191 2192-2195 2196-2199 2200-2203 2204-2207 2208-2211 2212-2215 2216-2219 2220-2223 2224-2227 2228-2231 2232-2235 2236-2239 2240-2243 2244-2247 2248-2251 2252-2255 2256-2259 2260-2263 2264-2267 2268-2271 2272-2275 2276-2279 2280-2283 2284-2287 2288-2291 2292-2295 2296-2299 2300-2303 2304-2307 2308-2311 2312-2315 2316-2319 2320-2323 2324-2327 2328-2331 2332-2335 2336-2339 2340-2343 2344-2347 2348-2351 2352-2355 2356-2359 2360-2363 2364-2367 2368-2371 2372-2375 2376-2379 2380-2383 2384-2387 2388-2391 2392-2395 2396-2399 2400-2403 2404-2407 2408-2411 2412-2415 2416-2419 2420-2423 2424-2427 2428-2431 2432-2435 2436-2439 2440-2443 2444-2447 2448-2451 2452-2455 2456-2459 2460-2463 2464-2467 2468-2471 2472-2475 2476-2479 2480-2483 2484-2487 2488-2491 2492-2495 2496-2499 2500-2503 2504-2507 2508-2511 2512-2515 2516-2519 2520-2523 2524-2527 2528-2531 2532-2535 2536-2539 2540-2543 2544-2547 2548-2551 2552-2555 2556-2559 2560-2563 2564-2567 2568-2571 2572-2575 2576-2579 2580-2583 2584-2587 2588-2591 2592-2595 2596-2599 2600-2603 2604-2607 2608-2611 2612-2615 2616-2619 2620-2623 2624-2627 2628-2631 2632-2635 2636-2639 2640-2643 2644-2647 2648-2651 2652-2655 2656-2659 2660-2663 2664-2667 2668-2671 2672-2675 2676-2679 2680-2683 2684-2687 2688-2691 2692-2695 2696-2699 2700-2703 2704-2707 2708-2711 2712-2715 2716-2719 2720-2723 2724-2727 2728-2731 2732-2735 2736-2739 2740-2743 2744-2747 2748-2751 2752-2755 2756-2759 2760-2763 2764-2767 2768-2771 2772-2775 2776-2779 2780-2783 2784-2787 2788-2791 2792-2795 2796-2799 2800-2803 2804-2807 2808-2811 2812-2815 2816-2819 2820-2823 2824-2827 2828-2831 2832-2835 2836-2839 2840-2843 2844-2847 2848-2851 2852-2855 2856-2859 2860-2863 2864-2867 2868-2871 2872-2875 2876-2879 2880-2883 2884-2887 2888-2891 2892-2895 2896-2899 2900-2903 2904-2907 2908-2911 2912-2915 2916-2919 2920-2923 2924-2927 2928-2931 2932-2935 2936-2939 2940-2943 2944-2947 2948-2951 2952-2955 2956-2959 2960-2963 2964-2967 2968-2971 2972-2975 2976-2979 2980-2983 2984-2987 2988-2991 2992-2995 2996-2999 3000-3003 3004-3007 3008-3011 3012-3015 3016-3019 3020-3023 3024-3027 3028-3031 3032-3035 3036-3039 3040-3043 3044-3047 3048-3051 3052-3055 3056-3059 3060-3063 3064-3067 3068-3071 3072-3075 3076-3079 3080-3083 3084-3087 3088-3091 3092-3095 3096-3099 3100-3103 3104-3107 3108-3111 3112-3115 3116-3119 3120-3123 3124-3127 3128-3131 3132-3135 3136-3139 3140-3143 3144-3147 3148-3151 3152-3155 3156-3159 3160-3163 3164-3167 3168-3171 3172-3175 3176-3179 3180-3183 3184-3187 3188-3191 3192-3195 3196-3199 3200-3203 3204-3207 3208-3211 3212-3215 3216-3219 3220-3223 3224-3227 3228-3231 3232-3235 3236-3239 3240-3243 3244-3247 3248-3251 3252-3255 3256-3259 3260-3263 3264-3267 3268-3271 3272-3275 3276-3279 3280-3283 3284-3287 3288-3291 3292-3295 3296-3299 3300-3303 3304-3307 3308-3311 3312-3315 3316-3319 3320-3323 3324-3327 3328-3331 3332-3335 3336-3339 3340-3343 3344-3347 3348-3351 3352-3355 3356-3359 3360-3363 3364-3367 3368-3371 3372-3375 3376-3379 3380-3383 3384-3387 3388-3391 3392-3395 3396-3399 3400-3403 3404-3407 3408-3411 3412-3415 3416-3419 3420-3423 3424-3427 3428-3431 3432-3435 3436-3439 3440-3443 3444-3447 3448-3451 3452-3455 3456-3459 3460-3463 3464-3467 3468-3471 3472-3475 3476-3479 3480-3483 3484-3487 3488-3491 3492-3495 3496-3499 3500-3503 3504-3507 3508-3511 3512-3515 3516-3519 3520-3523 3524-3527 3528-3531 3532-3535 3536-3539 3540-3543 3544-3547 3548-3551 3552-3555 3556-3559 3560-3563 3564-3567 3568-3571 3572-3575 3576-3579 3580-3583 3584-3587 3588-3591 3592-3595 3596-3599 3600-3603 3604-3607 3608-3611 3612-3615 3616-3619 3620-3623 3624-3627 3628-3631 3632-3635 3636-3639 3640-3643 3644-3647 3648-3651 3652-3655 3656-3659 3660-3663 3664-3667 3668-3671 3672-3675 3676-3679 3680-3683 3684-3687 3688-3691 3692-3695 3696-3699 3700-3703 3704-3707 3708-3711 3712-3715 3716-3719 3720-3723 3724-3727 3728-3731 3732-3735 3736-3739 3740-3743 3744-3747 3748-3751 3752-3755 3756-3759 3760-3763 3764-3767 3768-3771 3772-3775 3776-3779 3780-3783 3784-3787 3788-3791 3792-3795 3796-3799 3800-3803 3804-3807 3808-3811 3812-3815 3816-3819 3820-3823 3824-3827 3828-3831 3832-3835 3836-3839 3840-3843 3844-3847 3848-3851 3852-3855 3856-3859 3860-3863 3864-3867 3868-3871 3872-3875 3876-3879 3880-3883 3884-3887 3888-3891 3892-3895 3896-3899 3900-3903 3904-3907 3908-3911 3912-3915 3916-3919 3920-3923 3924-3927 3928-3931 3932-3935 3936-3939 3940-3943 3944-3947 3948-3951 3952-3955 3956-3959 3960-3963 3964-3967 3968-3971 3972-3975 3976-3979 3980-3983 3984-3987 3988-3991 3992-3995 3996-3999 4000-4003 4004-4007 4008-4011 4012-4015 4016-4019 4020-4023 4024-4027 4028-4031 4032-4035 4036-4039 4040-4043 4044-4047 4048-4051 4052-4055 4056-4059 4060-4063 4064-4067 4068-4071 4072-4075 4076-4079 4080-4083 4084-4087 4088-4091 4092-4095 4096-4099 4100-4103 4104-4107 4108-4111 4112-4115 4116-4119 4120-4123 4124-4127 4128-4131 4132-4135 4136-4139 4140-4143 4144-4147 4148-4151 4152-4155 4156-4159 4160-4163 4164-4167 4168-4171 4172-4175 4176-4179 4180-4183 4184-4187 4188-4191 4192-4195 4196-4199 4200-4203 4204-4207 4208-4211 4212-4215 4216-4219 4220-4223 4224-4227 4228-4231 4232-4235 4236-4239 4240-4243 4244-4247 4248-4251 4252-4255 4256-4259 4260-4263 4264-4267 4268-4271 4272-4275 4276-4279 4280-4283 4284-4287 4288-4291 4292-4295 4296-4299 4300-4303 4304-4307 4308-4311 4312-4315 4316-4319 4320-4323 4324-4327 4328-4331 4332-4335 4336-4339 4340-4343 4344-4347 4348-4351 4352-4355 4356-4359 4360-4363 4364-4367 4368-4371 4372-4375 4376-4379 4380-4383 4384-4387 4388-4391 4392-4395 4396-4399 4400-4403 4404-4407 4408-4411 4412-4415 4416-4419 4420-4423 4424-4427 4428-4431 4432-4435 4436-4439 4440-4443 4444-4447 4448-4451 4452-4455 4456-4459 4460-4463 4464-4467 4468-4471 4472-4475 4476-4479 4480-4483 4484-4487 4488-4491 4492-4495 4496-4499 4500-4503 4504-4507 4508-4511 4512-4515 4516-4519 4520-4523 4524-4527 4528-4531 4532-4535 4536-4539 4540-4543 4544-4547 4548-4551 4552-4555 4556-4559 4560-4563 4564-4567 4568-4571 4572-4575 4576-4579 4580-4583 4584-4587 4588-4591 4592-4595 4596-4599 4600-4603 4604-4607 4608-4611 4612-4615 4616-4619 4620-4623 4624-4627 4628-4631 4632-4635 4636-4639 4640-4643 4644-4647 4648-4651 4652-4655 4656-4659 4660-4663 4664-4667 4668-4671 4672-4675 4676-4679 4680-4683 4684-4687 4688-4691 4692-4695 4696-4699 4700-4703 4704-4707 4708-4711 4712-4715 4716-4719 4720-4723 4724-4727 4728-4731 4732-4735 4736-4739 4740-4743 4744-4747 4748-4751 4752-4755 4756-4759 4760-4763 4764-4767 4768-4771 4772-4775 4776-4779 4780-4783 4784-4787 4788-4791 4792-4795 4796-4799 4800-4803 4804-4807 4808-4811 4812-4815 4816-4819 4820-4823 4824-4827 4828-4831 4832-4835 4836-4839 4840-4843 4844-4847 4848-4851 4852-4855 4856-4859 4860-4863 4864-4867 4868-4871 4872-4875 4876-4879 4880-4883 4884-4887 4888-4891 4892-4895 4896-4899 4900-4903 4904-4907 4908-4911 4912-4915 4916-4919 4920-4923 4924-4927 4928-4931 4932-4935 4936-4939 4940-4943 4944-4947 4948-4951 4952-4955 4956-4959 4960-4963 4964-4967 4968-4971 4972-4975 4976-4979 4980-4983 4984-4987 4988-4991 4992-4995 4996-4999 5000-5003 5004-5007 5008-5011 5012-5015 5016-5019 5020-5023 5024-5027 5028-5031 5032-5035 5036-5039 5040-5043 5044-5047 5048-5051 5052-5055 5056-5059 5060-5063 5064-5067 5068-5071 5072-5075 5076-507

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY

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

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 56 TOTAL MEAN
% WIND

N 2.1 1.1 1.2 .3

NNE .8 .8 1.1 .4

NE .9 .9 .7 .5 .0

ENE .9 1.8 .4 .1

E 1.1 1.5 .6 .0

ESE .7 .9 .2 .0

SE .6 .9 .4 .1

SSE 1.6 1.6 1.1 .1

S 1.6 3.6 3.0 .6

SSW 1.0 2.9 3.5 1.5 .1

SW .7 2.0 4.4 2.1 .1

WSW 1.3 1.2 1.9 1.3 .1 .1

W .7 1.0 1.7 .4 .0

WNW .5 1.0 1.1 .2 .0

NW 1.1 .8 .9 .0

NNW 2.1 1.3 .9 .4

VARIABLE .0 .1 2.5 1.7 .2 4.5 10.8

CALM 7.7

TOTALS 17.9 23.5 25.5 9.8 .6 .1 100.0 5.1

TOTAL NUMBER OF OBSERVATIONS: 3355

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

STATION NUMBER: 105420 STATION NAME: HAYAU AAF GERMANY PERIOD OF RECORD: 77-86 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		
N	1.4	3.3	1.4	.2							6.3	5.1
NNE	1.5	.5	.2								2.2	3.3
NE	1.3	1.1									2.4	3.6
ENE	1.9	1.1	.2								3.2	3.5
E	1.0	.5	.3								1.7	3.5
ESE	.5										.6	2.3
SE	.8	.5	.3								1.6	4.5
SSE	3.0	.6	.5								4.1	3.4
S	2.5	3.7	1.1	.5							7.8	5.1
SSW	1.0	2.5	3.5								7.0	6.1
SW	.3	1.4	2.9								4.6	6.9
WSW	1.0	.8	1.3								3.0	5.4
W	.6	1.9	1.0	.3							3.8	6.3
WNW	.6	1.7	.3								2.7	4.9
NW		.6	.3								1.0	5.8
NNW	1.4	2.5	2.1	.3							6.3	5.9

VARIABLE 1.0 .2 1.1 9.3 40.5

CALP 100.0 3.1

TOTALS 19.0 22.9 16.2 1.4

TOTAL NUMBER OF OBSERVATIONS: 630

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86 HOURS(LST): 0900-1100
 MONTH: APR

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	56 TOTAL
N	2.0	1.4	2.6	.3							6.3
NNE	1.8	.9	.8	.8							4.3
NE	.9	2.0	1.1	.3							4.3
ENE	1.4	2.5	1.7								5.5
E	1.1	.9	1.2	.2							3.4
ESE	.3	.9									1.2
SE	.6	.3	.2								1.1
SSE	1.1	1.4	.5								2.9
S	2.0	4.1	1.7	.8							8.6
SSW	1.2	2.8	4.6	1.4	.2						10.0
SW		2.6	2.6	1.1							6.4
WSW	.5	1.2	1.4	.3							3.5
W	.5	1.4	1.7	.5							4.0
WNW	.3	1.7	1.7	.3							4.0
NW	.8	1.5	2.1	.5	.2						5.1
NNW	2.6	2.5	2.1	.9							8.1
VARIABLE	.3	4.9	1.1								6.3
CALM											15.0
TOTALS	16.9	27.8	31.7	8.3	.3						100.0

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAWAII AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: APR HOURS(LST): 1200-1400

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	1.6	3.3	2.7	.5								8.0	6.0
NNE	1.1	1.1	2.0	.5								4.7	6.6
NE	.2	1.1	1.2	.5								3.0	7.1
ENE	1.9	1.1	1.9									4.8	5.4
E	.8	2.0	1.9									4.7	5.8
ESE	.5	.9	.6									2.2	5.4
SE	.3	.8	.3									1.4	5.1
SSE	.9	1.2	.2									2.3	4.5
S	.9	2.2	2.0	.6								5.8	6.5
SSW	.6	2.7	3.9	1.2	.2							8.6	7.8
SW	.3	1.7	2.8	1.4	.3							6.6	8.7
WSW	.8	.9	2.3	1.2	.2							5.5	8.3
W	1.2	1.7	2.5	1.1								6.6	7.0
WNW	.9	1.7	2.0	.6								5.3	6.5
NW	1.1	1.7	1.4	.8	.2							5.1	6.9
NNW	1.7	2.7	2.8	1.2	.2							8.6	7.0
VARIABLE	.3	7.5	3.0	.5								11.2	9.9
CALM												5.8	7.7
TOTALS	15.0	27.1	38.1	12.6	1.1	.3						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 541

GLOBAL CLIMATOLOGY BRANCH USAFSFC	PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS
ATD HEATED CONTROL ZONE	

STATION NUMBER: 106423 STATION NAME: HAVAU AAF GERMANY

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

[illegible][illegible]

NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

NE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
NE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

363	5	1	8
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	1.0	1.8	1.7
3			

100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000

Q. 1	Q. 2	Q. 3	Q. 4	Q. 5

5.9	6.1	2.2
		2.2

	0.2	0.3	0.5	0.7	1.0	1.6	6.3
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0	0.0	0.0	0.2	5.3	5.8
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	0.2	0.3	0.2	5.0	8.0
0.2	0.2	0.3	0.2	5.0	8.0

34	1.0	1.6	3.5	2.3	8.4	8.3
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MSK	.5	1.9	2.9	1.0	6.3	7.7
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2	1.1	2.9	1.9	1.1	7.1	7.0
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WVW	.6	2.3	2.9	.8	.2	6.8	7.5
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NW	.9	1.0	2.3	.8	4.8	7.8
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NNW	1.5	2.1	2.6	1.6
				7.9
				7.5

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TOTALS	13	11	20	3
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GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: APR HOURS(LST): 1800-2000

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	56	TOTAL	MEAN WIND
N	2.5	3.6	2.0	.5								8.7	5.5
NNE	.9	2.3	2.7	.5								6.5	6.7
NE	.9	1.8	2.7	.5								6.0	6.9
ENE	1.8	.9	.9									3.6	4.5
E	1.3	1.3	.5									3.1	4.3
ESE	1.4	.9	.4									2.7	3.8
SE	1.8	1.1	.2									3.1	3.8
SSE	1.3	1.6	.7									3.6	4.6
S	1.3	2.0	1.3	.2								4.7	5.5
SSW		3.2	3.2									6.5	7.1
SW	.5	3.2	2.0	.2	.4							6.3	7.2
WSW	1.3	1.1	1.1	.2								3.6	5.6
W	2.0	2.5	2.7	.4								7.6	6.0
WNW	.7	1.6	1.4	.5								4.3	6.7
WW	.9	2.3	.9	.2								4.3	5.5
NNW	.9	1.1	3.2	.7								6.0	7.9

VARIABLE 1.1 .5 1.6 9.6

CALM 17.9

TOTALS 19.5 30.7 26.9 4.7 .4 100.0 5.0

TOTAL NUMBER OF OBSERVATIONS: 554

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

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

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	1.3	1.7	2.0	.3								5.3	6.1
NNE	1.7	1.7	1.3	.3								5.0	5.7
NE	2.0	1.7	1.3									5.0	4.7
ENE	2.0	3.0	.3									5.3	4.2
E	1.3	.3	.3									2.0	3.3
ESE	2.0	.7	.3									3.0	3.3
SE	1.0	1.7	.7									3.3	4.9
SSE	2.0	1.3	1.3									4.7	5.2
S	1.3	1.3	.7									3.3	4.6
SSW	1.3	.7	1.7									3.7	6.0
SW	1.7	2.7	2.0	.7								7.0	6.0
WSW	.7	2.0	1.0									3.7	5.5
W		1.0	2.0									3.0	7.9
WNW	1.0	.7		.3								2.0	4.5
WW	.7	1.3	1.3									3.3	5.2
NNW	.7	4.0	.3	.7								5.7	5.8

VARIABLE

CALP

TOTALS

20.7 25.7 16.7 2.3

34.7

100.0

TOTAL NUMBER OF OBSERVATIONS: 300

GLOBAL CLIMATOLOGY BRANCH		PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED									
USAFETAC		FROM HOURLY OBSERVATIONS									
AIR WEATHER SERVICE/HAC											
STATION NUMBER: 105423		STATION NAME: HAVAU AAF GERMANY									
		PERIOD OF RECORD: 77-86									
		MONTH: APR HOURS(IST): ALL									

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

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

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	TOTAL	MEAN WIND
N	2.5	2.0	.6	.3								8.5	4.6
NNE	1.4	1.3	.6									3.3	4.4
NE	1.9	1.4	.6									3.9	4.0
ENE	2.5	3.1	1.1									6.7	4.2
E	1.4	.5										1.9	2.8
ESE	.9	.3										1.3	2.6
SE	1.4	.6										2.0	2.6
SSE	3.0	1.7	.6									5.3	3.6
S	2.5	2.3	1.4	.2								6.4	4.7
SSW	1.3	3.0	2.5	.9								7.7	6.5
SW	.9	2.2	1.1									4.1	5.6
WSW	.9	1.3	.3									2.5	4.1
W	1.3	1.6	.3									3.2	3.6
WNW	.8	.6	.2									1.6	3.8
NW	.5	.5	.9									3.0	3.8
NNW	1.6	2.5	.8									4.9	4.5
VARIABLE													
CALM												36.6	7.7
TOTALS	25.4	24.9	11.6	1.6								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 639

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY

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

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	56-63	TOTAL	MEAN WIND
N	2.6	2.6	1.7	.5								7.3	5.2
NNE	1.5	1.2	1.2									4.0	4.9
NE	.5	.8	.8	.2								2.1	6.1
ENE	1.4	2.1	1.7	.5								5.6	5.6
E	.9	2.3	.9	.2								4.3	5.3
ESE	1.1	1.5										2.6	3.7
SE	.8	.0	.6									2.1	4.5
SSE	1.1	2.0	.9									4.0	4.7
S	2.4	3.2	1.1									6.7	4.6
SSW	.6	4.3	4.7	.3								9.9	6.9
SW	1.1	3.0	2.6	.6								7.3	6.5
WSW	1.4	2.0	.9	.9	.2							5.3	6.5
W	2.0	2.1	.2	.2								4.4	4.0
WNW	1.2	1.4	.3									2.9	4.1
WW	.6	1.7	.9									3.2	5.3
NNW	1.5	2.3	.9									4.7	4.6

VARIABLE 5.3 .8

CALC 17.4

TOTALS 20.6 33.2 24.7 4.0 .2 100.0 4.7

TOTAL NUMBER OF OBSERVATIONS: 656

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY

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

		WIND SPEED IN KNOTS										TOTAL	MEAN
DIRECTION (DEGREES)		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	WIND
N	1-3	1.5	2.1	1.2	.2							5.0	5.2
NNE		2.0	2.4	1.5	.5							6.3	5.4
NE		.6	1.5	1.5	.6							4.2	7.0
ENE		.8	1.1	2.1	.3							4.2	6.8
E		1.1	2.3	1.2								4.5	5.3
ESE		.8	1.8	.3								2.9	4.7
SE		.9	.9	.5								2.3	4.5
SSE		.9	1.4	.8								3.0	4.9
S		2.4	3.0	1.8								7.3	5.1
SSW		2.6	3.2	2.7	.6							9.1	6.0
SW		1.4	2.6	3.8	1.4							9.1	7.4
WSW		.9	2.9	1.8	.3							5.9	5.9
W		2.0	2.4	1.4	.5							6.2	5.3
WNW		1.5	2.3	.5								4.2	4.1
NW		.8	2.0	.8								3.5	4.9
NNW		2.0	1.2	2.1	.2							5.4	5.3

VARIABLE .6 6.5 1.8

CALP 8.0

TOTALS 21.9 33.5 30.4 6.2 100.0 5.5

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/7HAC
 STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY
 PERIOD OF RECORD: 77-86
 MONTH: MAY HOURS(LST): 1800-2000

WIND SPEED IN KNOTS										TOTAL	MEAN
DIRECTION (DEGREES)										WIND	
1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	WIND
2.6	3.5	2.0									8.2
N											6.9
NVE	1.5	2.2	2.4	.7							4.5
NE	1.3	1.7	1.5								5.1
ENE	1.5	1.9	1.1	.2							6.9
E	2.9	4.1	.7								2.0
ESE	.2	1.3	.4	.2							2.8
SE	1.3	.9	.6								5.0
SSE	2.8	1.7	.6								6.3
S	3.2	2.0	1.1								6.1
SSW	1.7	2.8	1.1	.6							5.6
SW	.6	3.0	1.7	.4							5.4
WSW	1.3	2.2	1.7	.2							2.4
W	1.3	.7	.4								2.0
WNW	1.1	.6	.4								2.4
NW	1.5	.7	.2								3.5
NNW	1.3	1.5	.7								3.5

VARIABLE	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	7.8
CALM	25.0	31.2	16.9	2.2							24.7
TOTALS	25.0	31.2	16.9	2.2							100.0

TOTAL NUMBER OF OBSERVATIONS: 539

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

STATION NUMBER: 105420 STATION NAME: HAWAU AAF GERMANY PERIOD OF RECORD: 77-86 HOURS (LST): 2100-2300
MONTH: MAY

WIND SPEED IN KNOTS

1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56-65 TOTAL MEAN WIND

2.1 1.8 .7 .4

NVE 2.5 2.1 .4

NE 2.1 3.5 1.1

ENE 3.2 1.8 .7

E 1.4 .7

ESE 1.1

SE 1.8 .7

SSE 1.8 1.4

S 2.8 3.5 .7

SSW 1.4 3.5

SW 1.1 2.5 .7

WSW 2.8 1.4 .7 .4

W .4 .7 .4

NNW .7 .4

NW .4

NNW 1.4 1.1 .7

VARIABLE

CALM

TOTALS 26.4 25.0 6.0 1.1

41.5

100.0 2.3

TOTAL NUMBER OF OBSERVATIONS: 284

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86 MONTH: MAY HOURS(LST): ALL

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	2.2	2.6	1.3	.3								6.3	4.9
NNE	1.5	1.9	1.3	.4								5.2	5.6
NE	1.1	1.6	1.1	.1								3.9	5.3
ENE	1.5	2.2	1.3	.3								5.3	5.3
E	1.2	2.3	.9	.0								4.4	4.8
ESE	.8	1.1	.4	.0								2.2	4.6
SE	.9	.9	.4									2.3	4.2
SSE	1.8	1.5	.6									3.9	3.9
S	2.5	3.0	1.2	.1								6.8	4.7
SSW	1.5	3.3	2.6	.5								7.9	6.1
SW	.8	2.9	2.4	.7	.0							6.8	6.8
WSW	1.2	2.2	1.2	.4	.0							5.0	5.7
W	1.7	1.9	.6	.1		.0						4.3	4.6
WNW	1.2	1.3	.3	.1								2.9	4.2
NW	.7	1.4	.8									2.9	5.1
NNW	1.5	2.0	1.4	.0								4.9	4.9
VARIABLE	.3	.3	.7									4.2	8.8
CALC	22.2	32.3	20.9	3.8	.1	.0						20.6	20.6
TOTALS	22.2	32.3	20.9	3.8	.1	.0						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 3428

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUN HOURS(LST): 0600-0800

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	2.9	1.1	.5	.2								4.6	3.7
NNE	2.3	.9										3.2	3.0
NE	.8	.8										1.5	3.7
ENE	3.1	.3										3.4	2.2
E	1.1	.8										1.8	3.2
ESE	1.4											1.4	2.0
SE	.9	.2										1.1	2.4
SSE	2.6	.5	.3									3.4	2.9
S	3.7	2.6	.8									7.0	3.9
SSW	1.7	2.6	2.0	.5								6.7	5.6
SW	1.4	4.9	2.1	.6								9.0	5.7
WSW	.9	1.4	.6									2.9	4.9
W	2.4	1.2	.5									4.1	3.6
WNW	.8	1.2	.8									2.7	4.9
NW	1.4	.8	.3									2.4	3.7
NNW	3.2	1.5	.2									4.9	3.1

VARIABLE

CALC

TOTALS

TOTAL NUMBER OF OBSERVATIONS: 655

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

STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY

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

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	2.9	2.3	1.1						
NNE	1.4	1.5	.3						
NE	.9	1.2	.5						
ENE	.3	1.2							
E	1.5	2.8	.5						
ESE		.6	.2						
SE	.3	.9	.2						
SSE	1.5	.9	.3						
S	2.9	4.0	1.7						
SSW	1.7	5.2	4.1	.6					
SW	2.1	3.7	3.5	1.1					
WSW	2.3	2.9	2.1	.2					
W	1.5	1.7	.5						
WNW	1.2	2.5	1.4						
NW	.8	2.0	.3						
NNW	3.7	2.8	.6						
VARIABLE	3.4 .3								
CALM	16.0								
TOTALS	25.2	36.2	20.6	2.1					

TOTAL NUMBER OF OBSERVATIONS: 652

MEAN WIND
6.3 4.4
3.2 4.1
2.6 4.6
1.5 3.9
4.8 4.1
.8 5.4
1.4 4.8
2.8 3.2
8.6 4.6
11.7 6.3
10.4 6.4
7.5 5.3
3.7 4.1
5.1 5.4
3.1 4.8
7.1 3.6
3.7 8.7

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

STATION NUMBER: 105425 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1200-1400

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 Σ	MEAN WIND
N	2.8	2.8	1.1									6.6	4.2
NNE	2.5	2.0	.5									5.0	3.9
NE		2.0	.3									2.3	5.4
ENE	.5	2.0	.2									2.8	4.6
E		1.7	.3									2.0	5.7
ESE	.5	1.4	.3									2.1	4.9
SE	.8	.3	.2									1.2	3.1
SSE	.8	.9	.3									2.0	4.2
S	1.4	3.1	2.1	.2								6.7	5.6
SSW	1.5	4.9	3.2	.8								10.4	6.3
SW	1.1	2.4	3.2	2.0								8.7	7.8
WSW	1.8	5.0	3.2	.6								10.7	5.9
W	1.5	4.6	2.8	.3								9.2	5.7
WNW	1.2	2.8	1.4									5.4	5.3
VW	.9	2.0	.6									3.5	4.8
NVW	2.9	2.8	1.2									6.9	4.4
VARIABLE	.2	7.3	.5									8.0	8.4

CALP
TOTALS 20.3 40.7 28.1 4.3 100.0 5.3

TOTAL NUMBER OF OBSERVATIONS: 654

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY

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

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-65	TOTAL %	MEAN WIND
N	3.9	2.8	1.6									8.3	4.2
NNE	1.1	1.7	1.1									3.9	4.7
NE	.8	.9	.9									2.7	5.2
ENE	.5	.8	.2									1.4	3.8
E	.5	2.7	.5									3.6	4.8
ESE	.3	1.1	.3									1.7	5.0
SE	.9	.9										1.9	3.8
SSE	.9	.8	.2									1.9	3.8
S	1.7	3.3	.6									6.1	4.6
SSW	.8	3.1	2.7	.6	.2							7.4	7.0
SW	1.1	1.9	4.5	1.7								9.2	8.0
WSW	2.2	4.5	2.7	.2								9.6	5.5
W	1.4	4.4	4.1	.2								10.0	5.9
WNW	1.7	3.6	2.2	.3								7.8	5.5
NW	1.4	2.7	1.7									5.8	5.2
NNW	2.2	2.8	2.4	.2								7.5	5.3

VARIABLE	.3	5.0	.9	.2								4.4	9.6
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CALM	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	////////////////////	6.7	////////
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TOTALS	21.5	38.9	28.5	4.1	.3							100.0	5.3
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TOTAL NUMBER OF OBSERVATIONS: 638

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

STATION NUMBER: 105420 STATION NAME: HAWAII AFB, HAWAII PERIOD OF RECORD: 77-86
 MONTH: JUN HOURS (LST): 1800-2000

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	3.9	2.9	1.8						
NNE	2.7	.7	.9						
NE	1.1	1.3	.9						
ENE	1.3	.9							
E	.9	2.3	.2						
ESE	.9	.5							
SE	1.1	.9							
SSE	2.0	1.3							
S	2.3	.9	.5						
SSW	.9	2.9	2.1						
SW	2.0	2.9	4.3	.2					
WSW	3.2	3.6	1.8	.2					
W	2.3	2.7	1.6						
WNW	1.4	2.3	.4						
WW	1.8	2.1	1.1						
NNW	1.8	2.1	1.1						

..... VARIABLE 7 .2 9 10.2

..... CALM 22.4

..... TOTALS 29.5 30.2 17.4 .5 100.0 3.6

..... TOTAL NUMBER OF OBSERVATIONS: 559

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

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUN HOURS(LST): 2100-2300

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
N	2.1	.3										2.4	2.3
NVE	1.9	.9	.3									3.0	3.4
NE	3.0	.3										3.3	2.5
ENE	.9	.6										1.5	3.2
E	.3											.3	2.0
ESE	.3	.3										.6	3.5
SE													
SSE	1.8	.9										2.7	3.2
S	5.1	1.5	.3									6.9	3.0
SSW	1.2	2.7	.3	.3								4.5	4.8
SW	1.5	2.7	.9									5.1	4.4
WSW	.6	1.2	.3									2.1	4.4
W	.9	2.1	.3									3.3	4.6
WNW	1.5	1.5	.3									3.3	3.7
NW	2.4	.6										3.0	2.1
NNW	1.2		.3									1.5	3.2
VARIABLE			.3	.3								.6	10.5
CALM	24.5	15.5	3.3	.6								56.1	100.0
TOTALS													1.6

TOTAL NUMBER OF OBSERVATIONS: 335

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

STATION NUMBER: 105423 STATION NAME: HAYAU AAF GERMANY

PERIOD OF RECORD: 77-96
 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	3.1	2.1	1.1	.0							6.4	4.1
NNE	2.0	1.3	.5								3.8	3.9
NNE	.9	1.1	.5								2.5	4.6
ENE	1.1	1.0	.1								2.2	3.4
E	.7	1.8	.3								2.8	4.3
ESE	.5	.7	.1								1.4	4.1
SE	.7	.6	.1								1.3	3.6
SSE	1.6	.9	.2								2.6	3.3
S	2.7	2.8	1.1	.0							6.6	4.4
SSW	1.3	3.7	2.6	.5	.0						8.1	6.2
SW	1.5	3.1	3.3	1.0							8.9	6.6
WSW	1.9	3.3	1.9	.2							7.3	5.3
W	1.7	2.8	1.7	.1							6.4	5.1
WNW	1.3	2.4	1.1	.1							4.9	5.1
NW	1.3	1.8	.7								3.8	4.6
NW	2.5	2.2	1.0	.0							5.8	4.3
VARIABLE	.1	2.7	.4	.0							3.3	8.9
CALC	////////////////////										21.8	////////
TOTALS	25.2	31.7	18.9	2.4	.1						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 3493

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

STATION NUMBER: 105423 STATION NAME: HAWAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUL HOURS(IST): 0900-1100

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DIRECTION (DEGREES) 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-59 60-66 TOTAL MEAN WIND

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N 2.4 1.1 1.3 4.7 4.1

NNE 1.7 .9 .3 3.0 3.7

NE 1.1 .9 2.0 3.4

ENE 1.7 2.2 .2 4.1 3.7

E .5 1.9 .2 2.7 4.5

ESF 2.0 .3 .3 2.7 3.1

SE .9 .3 .2 1.4 3.1

SSE 1.4 1.6 .2 3.1 3.6

S 2.5 1.9 .6 5.0 3.9

SSW 2.7 4.1 2.0 .5 9.3 5.5

SW 2.0 5.7 2.2 .5 10.4 5.7

WSW 2.0 4.4 1.4 .3 8.2 5.1

W 3.9 2.8 .8 7.4 3.7

WNW 2.0 2.2 .9 5.2 4.0

WV 2.2 1.6 .9 4.7 4.4

NVW 2.8 2.8 .6 6.3 3.9

.....

VARIABLE 2 2.0 .2 2.4 7.7

CALN 17.6 7.7

TOTALS 32.0 34.9 14.1 1.4 106.0 3.7

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TOTAL NUMBER OF OBSERVATIONS: 637

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GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC
AIR WEATHER SERVICE/7HAC

STATION NUMBER: 105429 STATION NAME: HAVAD AAF GERMANY

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS (LST): 1200-1400

WIND SPEED IN KNOTS

DIRECTION
(DEGREES)

TOTAL
%
MEAN
WIND

	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	
N	2.4	1.6	.8									4.7
NNE	2.2	1.7	.5									4.4
NE	.6	1.4	.2									2.2
ENE	1.4	1.9										3.3
E	.8	1.1	1.1									3.0
ESE	.8	.9	.3									2.0
SE	.6	.8	.3									1.7
SSE	1.1	1.4	.5									3.0
S	1.3	3.5	1.1									5.8
SSW	.9	2.0	2.8	.2								6.0
SW	1.9	4.4	3.8	.8								10.8
WSW	3.1	4.7	2.4	.9								11.2
W	2.8	4.9	1.3	.2								9.1
WNW	3.1	3.9	1.6									8.6
NW	.5	2.2	.6	.3								3.6
NNW	3.0	3.8	1.1									7.9

VARIABLE

.2 3.5 .6

4.2 8.5

CALC

8.3

TOTALS

26.6 40.4 21.7 3.0

100.0 4.8

TOTAL NUMBER OF OBSERVATIONS: 636

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

STATION NUMBER: 106423 STATION NAME: HAWAII AAF GERMANY

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

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	TOTAL	MEAN WIND
N	3.6	3.8	.5									7.9	3.0
NNE	1.9	2.0	.2									4.1	3.8
NE	1.3	1.3	.3									2.8	4.0
ENE	1.3	1.1	.5									2.8	3.8
E	1.1	2.2	.5									3.8	4.3
ESE	.8	1.3	.6									2.7	4.8
SE	.6	.8	.5									1.9	4.2
SSE	.8	1.3	.2									2.2	4.4
S	2.2	3.0	.6									5.8	4.3
SSW	1.4	1.7	1.4	.6								5.2	6.2
SW	1.6	3.9	2.5	1.3								9.3	6.4
WSW	3.0	3.0	1.9	.5								8.3	5.2
W	2.0	6.1	2.0	.6								10.8	5.7
WNW	2.4	3.1	1.9	.3								7.7	5.2
NW	2.2	3.0	.8									6.0	4.4
NNW	3.0	4.1	1.3									8.3	4.5
VARIABLE	.3	2.7	.5									3.5	8.2
CALM	29.1	42.0	18.2	3.8								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 636

AIR WEATHER SERVICE/HAC

STATION NUMBER: 15429 STATION NAME: HANAU AAF GERMANY

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

WIND SPEED IN KNOTS										TOTAL		
										GE	56	
DIRECTION	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	WIND

[illegible][illegible]

NE	1.0	1.7	2.9
NE	1.0	1.7	2.9

1.5	2
1.6	1.7
1.7	2.4

[illegible][illegible]

SE	.2	.5
SE	.2	.5

SE	1.0	.7	.3
SE	1.0	.7	.3

5	2.5	2.2	2.2
5	2.5	2.2	2.2

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	0.2	1.0	AS
COT	0.2	1.0	AS

[illegible][illegible]

5.0	3.9
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4.2	4.2
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VARIABLE 1

ALH

TOTALS		35.1	26.9	9.2	0.1
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TOTAL NUMBER OF OBSERVATIONS:	598
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GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 77-86
 MONTH: JUL HOURS(UT): 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	.3									1.1	2.8
NVE	.5	.3									.8	2.3
NE	1.6	.3									1.9	2.4
ENE	1.6	1.3									3.0	3.3
E	.3										.3	1.0
ESE	.3										.3	1.0
SE	.5										.5	2.0
SSE	.8	.3									1.1	2.0
S	1.3	1.6									3.0	3.5
SSW	2.7	1.9	.8								5.4	4.4
SW	.8	1.9	.3								3.0	4.4
WSW	4.2	1.9									5.9	3.0
W	2.2	3.0	.3								5.4	3.9
WNW	1.6	.5	.3								2.4	3.1
NW	2.2										2.2	1.8
NWV	1.3	.8	.3								2.4	3.8
VARIABLE											.3	15.0
CALC	////////////////////										61.2	77777
TOTALS	22.5	13.7	2.2	.3							100.0	1.3

TOTAL NUMBER OF OBSERVATIONS: 371

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY

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

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	TOTAL %	MEAN WIND
N	2.8	1.9	.7									5.4	3.8
NNE	1.5	1.0	.2									2.8	3.6
NE	1.2	.8	.1									2.1	3.4
ENE	1.7	1.3	.1									3.1	3.3
E	1.1	1.2	.4									2.7	4.1
ESE	.9	.7	.3									1.9	4.0
SE	.7	.5	.2									1.3	3.7
SSE	1.0	1.0	.2									2.2	3.8
S	2.4	2.4	.5									5.3	3.9
SSW	1.8	2.5	1.5	.2								6.1	5.3
SW	1.5	3.8	2.0	.5								7.9	5.8
WSW	2.7	3.3	1.3	.3								7.7	4.9
W	2.8	3.6	1.0	.2								7.6	4.5
WNW	2.3	2.4	1.0	.1								5.7	4.3
WW	1.7	1.7	.6	.1								4.0	4.3
NNW	2.5	2.6	.7									5.9	4.0
VARIABLE	.1	1.5	.3									1.9	8.3
CALM	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	25.4	////////
TOTALS	28.9	30.7	12.3	1.7								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 3486

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-85
 MONTH: AUG HOURS(IST): 0600-0800

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DIRECTION (DEGREES) 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56 TOTAL MEAN WIND

..... WIND SPEED IN KNOTS

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TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAL

STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-85

MONTH: AUG HOURS(LST): 0900-1100

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 56-65 66-75 76-85 TOTAL MEAN WIND

N	1.6	1.6	.7									3.8	4.3
NNE	1.1	1.3	.4									2.8	4.3
NE	1.7	.6	.3	.1								2.7	3.7
ENE	1.4	1.7										3.1	3.6
E	1.5	1.8	.3									3.7	3.8
ESE	1.6	.9	.3									2.7	3.4
SE	.6	1.3	.3									2.1	4.5
SSE	1.1	1.8	.1									3.1	3.8
S	2.3	3.7	.6									6.5	4.2
SSW	2.6	4.0	1.4	.1								8.1	4.9
SW	2.3	2.7	2.4	.1								7.5	5.4
WSW	2.1	2.4	2.1	.1								6.8	5.2
W	1.4	1.6	2.0	.1								5.1	6.0
WNW	1.7	.6	.1									2.4	3.1
NW	.3	1.8	1.1									3.3	5.7
NNW	2.4	4.3	.6									7.2	4.3
VARIABLE	2.6	.4										3.0	8.8
CALM												25.9	11111
TOTALS	25.7	32.0	15.3	1.1								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 734

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

STATION NUMBER: 105425 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
 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	56-65	
N	1.8	2.4	1.0								5.2	4.6
NNE	1.3	.8	.6	.1							2.8	5.0
N	.7	.8	.4								2.0	5.1
ENE	1.8	2.4	.6								4.8	4.3
E	1.8	3.0	.3								5.1	4.1
ESE	.7	2.1	.8								3.7	5.3
SE	.8	.7	.7								2.3	4.9
SSE	1.4	1.7	.7								3.8	4.6
S	2.0	2.4	1.0								5.4	4.6
SSW	.7	3.3	3.4	.6							7.9	6.7
SW	1.1	3.4	4.8	.8							10.2	7.0
WSW	2.1	3.1	4.2	.4							9.9	6.3
W	2.4	3.3	1.6	.3							7.5	5.3
WNW	1.3	1.4	1.0								3.7	4.9
W	1.3	2.0	1.3	.1							4.7	5.2
NNW	2.3	2.4	.8								5.5	4.4
VARIABLE	.1	.1	5.1	.7							5.9	8.8
CALM	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	////////////////	9.6	////////
TOTALS	23.6	35.4	28.3	3.1							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 737

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1500-1700

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 56-63 TOTAL MEAN WIND

N 1.7 1.6 1.6 1.6 .3 5.2 5.5

NNE .7 2.2 1.3 4.2 5.5

NE 1.1 .6 1.0 2.7 5.1

ENE .6 1.1 .6 2.3 5.4

E 2.0 4.0 .4 6.5 4.4

ESE 1.7 2.2 .3 4.2 3.9

SE .7 2.0 .4 3.2 4.5

SSE 1.7 1.7 .1 3.6 3.9

S 2.2 2.4 .6 5.2 4.2

SSW .3 2.9 2.0 .1 5.3 6.4

SW .9 3.4 3.6 1.1 9.1 7.2

WSW 2.4 4.6 3.7 .4 11.2 5.8

W 2.6 4.6 1.7 .1 9.1 5.0

WNW 1.9 2.3 .9 .1 5.2 4.8

NW 1.7 1.1 .4 3.3 4.1

NVW 2.0 2.2 1.1 5.3 4.4

VARIABLE .3 3.2 .4 3.9 8.9

CALM 10.8

TOTALS 24.3 39.2 23.0 2.7 100.0 4.8

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH			PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED									
USAFETAC			FROM HOURLY OBSERVATIONS									
AIR WEATHER SERVICE/HAC												
STATION NUMBER: 105420			STATION NAME: HANAU AAF GERMANY			PERIOD OF RECORD: 76-85						
						MONTH: AUG				HOURS(LST): 1800-2000		

GLOBAL CLIMATOLOGY STATION NAME: HAVAU AAF GERMANY PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 105923 PERIOD OF RECORD: 76-85
 MONTH: AUG HOURS(LST): 2100-2300

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	1.6	.3	.3						
NNE	1.3	.5							
NE	1.1	1.3							
ENE	4.7	1.8							
E	.8	.5							
ESE	.3								
SE	.8								
SSE	1.6	.8							
S	1.6	.5							
SSW	1.6	1.6	1.1						
SW	.8	.8	1.1						
WSW	1.1	1.3	.3						
W	1.3	.8							
NNW	.8	1.8	.5						
NW	.5								
NNW	1.6	.5							

TOTAL	2.1	3.0	2.1	3.0	2.1	3.0	2.1	3.0	2.1
MEAN	2.1	3.0	2.1	3.0	2.1	3.0	2.1	3.0	2.1
WIND	2.1	3.0	2.1	3.0	2.1	3.0	2.1	3.0	2.1
VARIABLE									
CALM	62.8								
TOTALS	21.4	12.7	3.2						

TOTAL NUMBER OF OBSERVATIONS: 79

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

STATION NUMBER: 106423 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-85
 MONTH: AUG HOURS(IST): ALL

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	1.9	1.6	.9	.1					
NNE	1.1	1.1	.6	.0					
NE	1.1	.8	.5	.0					
ENE	1.8	1.5	.3						
E	1.7	2.0	.2						
ESE	1.2	1.0	.3						
SE	.8	.8	.3						
SSE	1.4	1.2	.2						
S	2.4	2.1	.4						
SSW	1.2	2.8	1.7	.2					
SW	1.3	2.6	2.6	.5					
WSW	1.9	2.6	2.1	.2					
W	2.1	2.1	1.1	.2					
WNW	1.5	1.5	.7	.0					
NW	1.3	1.1	.7	.0					
NNW	2.0	2.3	.6						
VARIABLE	.1	2.1	.3						
CALM	////////////////////								
TOTALS	24.4	27.2	15.0	1.6					

MEAN WIND
 4.4 4.5 2.7 4.6 2.5 4.4 3.8 3.9 2.5 3.8 1.9 4.1 2.8 3.8 4.9 3.9 5.9 5.6 7.0 6.3 6.7 5.5 5.0 3.8 4.5 2.8 4.8 4.9 4.1 2.5 8.9 31.8 100.0 3.3

TOTAL NUMBER OF OBSERVATIONS: 3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 105423 STATION NAME: HAWAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 0600-0800

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	56-63	TOTAL	MEAN WIND
N	1.2	.9										2.1	3.4
NNE	.7											.7	1.6
NE	.7											.7	1.6
ENE	1.5	.1										1.6	2.1
E	1.0	.4										1.5	2.7
ESE	.6	.3										.9	2.8
SE	.6	.7										.9	3.2
SSE	2.2	.9	.1									3.3	3.1
S	4.9	2.7	.3									7.0	3.6
SSW	2.2	3.4	2.4	.1								8.2	5.3
SW	.6	2.1	1.3	.3								4.3	6.2
WSW	.9	.7	.1									1.8	3.1
W	.4	.9	.6	.1								2.1	6.3
WNW	.3	.3	.1									.7	4.4
WV	.3											.3	1.5
NNW	.4	.9		.1								1.5	4.6
VARIABLE													
CALC												62.4	777777
TOTALS	17.8	14.0	5.1	.6	.1							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 673

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105423 STATION NAME: HANAU RAF GERMANY

PERIOD OF RECORD: 76-85

MONTH: SEP HOURS(LST): 0900-1100

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	56-60	TOTAL	MEAN WIND % 4.0
N	1.7	1.6	.4									3.8	4.0
NNE	1.2	.3										1.5	2.6
NE	.7	.3										1.0	3.1
ENE	1.5	1.0	.1									2.6	3.3
E	1.6	.7										2.3	2.8
ESE	1.0	.1	.4									1.6	3.6
SE	1.0	.1										1.2	2.4
SSE	3.8	.9	.7									5.4	3.8
S	3.3	4.2	1.2									8.7	4.2
SSW	2.2	5.2	2.9	.9								11.2	5.9
SW	1.9	3.2	3.3	.4	.3	.1						9.3	6.9
WSW	1.2	1.9	1.9	.4	.1							5.5	6.7
W	.6	.6	1.7	.1								3.1	6.9
WNW	.7	.6	.3	.1								1.7	4.7
W	.7	.7	.1									1.6	3.8
NW	1.3	1.2	1.2									3.6	4.0
VARIABLE	.1	3.6	.3									4.1	8.1
CALC	24.5	22.9	18.0	2.3	.4	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 657

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

STATION NUMBER: 105420 STATION NAME: HAWAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1500-1700

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	56-66	TOTAL	MEAN WIND
N	1.1	2.2	.3	.2								3.8	4.5
NNE	1.0	1.6	.3									2.9	4.0
NE	.3	.5	.3									1.1	4.6
ENE	.5		.2									.8	3.0
E	1.8	1.9	.6									4.3	4.1
ESE	1.8	1.3	.3									3.3	3.6
SE	1.1	1.3										2.4	3.7
SSE	2.2	2.4										4.6	3.7
S	2.2	3.8	2.4									8.5	4.9
SSW	1.0	3.8	3.2									8.0	6.2
SW	1.0	4.1	4.0	1.6	.3							11.0	7.7
WSW	1.9	3.2	2.7	.8								8.6	6.2
W	3.2	3.7	2.4	.6								9.9	5.4
WNW	2.2	1.9	.8									4.9	4.5
NW	1.4	1.0	.3	.3								3.0	4.6
NNW	1.5	1.6	1.0	.2								4.3	4.7
VARIABLE	1.9	.2										2.1	8.6
CALC	24.4	34.3	20.7	3.8	.3							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 627

AIR WEATHER SERVICE=ZKAC

PERIOD OF RECORD? 76-85

PERIOD OF RECORD: 76-85
HOURS (LST): 1800-2000
MONTH: SEP

WIND SPEED IN KNOTS

DIRECTION
(DESPES)

**NEAR
WIND**

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TOTAL NUMBER OF OBSERVATIONS: 607

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 2100-2300

WIND SPEED IN KNOTS

DIRECTION
(DEGREES)

MEAN
WIND

TOTAL
%

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TOTAL NUMBER OF OBSERVATIONS: 366

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105429 STATION NAME: HAWAU AAF GERHANY

PERIOD OF RECORD: 75-85
MONTH: SEP HOURS(1ST): ALL

WIND SPEED IN KNOTS

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED

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	1.2	1.1	.5	.0								2.8	4.3
NVE	.7	.5	.1									1.2	3.4
NE	.6	.3	.1									1.0	3.3
ENE	1.2	.4	.1									1.7	3.0
E	1.5	.8	.2									2.5	3.3
ESE	1.3	.5	.2									1.8	3.5
SE	1.0	.6	.0									1.6	3.3
SSE	2.3	1.3	.3									3.9	3.6
S	3.1	3.4	1.1	.1								7.7	4.2
SSW	1.9	3.7	3.3	.3	.0							9.4	5.9
SW	1.0	3.0	3.1	.7	.2	.0						8.0	7.1
WSW	1.7	2.0	1.8	.3	.1							5.9	5.7
W	1.5	1.8	1.3	.2								4.7	5.4
WW	1.1	1.3	.5	.0								2.9	4.5
NW	.9	.6	.1	.1								1.7	4.0
NWN	1.2	1.2	.6	.1								3.0	4.6
VARIABLE	.1	1.8	.3									2.2	8.7
CALM												38.1	11111
TOTALS	21.9	22.4	15.3	2.1	.2	.0						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 3624

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

STATION NUMBER: 105423 STATION NAME: HAVAD AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(IST): 0600-0800

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	1.2	.4	1.5	.2					
NNE	.4								
NE	.4	.6	.2						
ENE	2.1	.8	.2						
E	3.1	.8							
ESE	1.0								
SE	1.9	.6							
SSE	1.7	1.5	.2						
S	3.1	1.9	2.1						
SSW	1.2	2.3	3.3	.2					
SW	1.0	2.3	1.7	.8					
WSW	.8	.4							
W	.8	.2							
WNW	.2	.2							
NW	.6	.2							
NNW	1.0	.6	.2						

TOTALS	20.8	12.3	10.0	1.2					
MEAN WIND									
TOTAL									

TOTAL NUMBER OF OBSERVATIONS: 480

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

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 0900-1100

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 .8 1.5 .6 .2 3.0 5.2

NNE .3 .5 .2 .9 4.5

NE .9 .9 .3 2.1 4.3

ENE 2.0 1.2 .8 .2 4.1 4.3

E 2.0 1.7 .2 3.8 3.4

ESE 1.2 2.3 .5 3.9 4.1

SE 1.5 .8 .2 2.4 3.4

SSE 3.3 3.8 .8 7.9 3.9

S 3.3 4.5 1.2 .2 9.7 4.4

SSW 2.3 4.5 3.5 1.1 11.4 6.2

SW .5 1.7 5.6 1.2 .3 9.4 8.8

WSW .5 .5 .6 .2 1.7 6.8

W 1.1 .6 .5 2.1 4.1

WNW .9 .3 .2 1.4 3.3

NW .5 .2 .8 2.8

NNW 1.5 1.1 1.2 3.8 4.5

VARIABLE 1.4 .3 1.7 9.0

CALM 30.0 11111

TOTALS 23.2 25.8 17.6 3.2 .3 100.0 3.7

TOTAL NUMBER OF OBSERVATIONS: 660

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

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1200-1400

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	1.3	1.4	1.4	.2								4.2	5.5
NNE	.9	1.3										2.0	4.0
NE	.6	.8	.5									1.9	4.6
ENE	.5	1.3	1.3	.2								3.1	6.4
E	2.4	3.1	1.1									6.6	4.3
ESE	1.1	2.0	1.1									4.2	5.3
SE	.8	1.7	.3									2.8	4.7
SSE	1.9	2.8	.6	.2								5.5	4.4
S	3.9	5.5	1.6	.5								11.5	4.8
SSW	1.9	4.4	5.5	1.6								13.4	7.1
SW	.6	2.5	4.4	1.4	.2							9.1	7.9
WSW	1.6	1.9	2.8	.8								7.1	6.4
W	1.3	1.7	.6									3.6	4.7
WNW	.5	.3	.3	.3								1.4	6.6
NW	.5	.5	.2	.2								1.3	4.9
NNW	1.4	.6	.8									2.8	4.2

VARIABLE 2.4 .8 3.1 9.0

CALC 16.2 11.1

TOTALS 20.9 31.9 24.8 6.0 .2 100.0 4.9

TOTAL NUMBER OF OBSERVATIONS: 536

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

STATION NUMBER: 10642J STATION NAME: HAWAII AAF GERMANY PERIOD OF RECORD: 76-85
 MONTH: OCT HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	
N	1.3	2.0	1.1								4.4	5.1
NVE	.7	.7	.2								1.5	3.8
NE	1.1	.7	.7								2.4	4.3
ENE	1.8	1.3	.8								3.9	4.4
E	2.9	5.4	.8								9.1	4.3
ESE	1.3	1.5	.5								3.3	4.4
SE	1.0	1.1	.5								2.6	3.9
SSE	3.3	2.4	.3								6.0	3.6
S	3.6	4.2	1.8								9.6	4.3
SSW	1.5	3.9	3.3	1.0							9.6	6.5
SW	.7	3.6	4.4	1.5							10.1	7.4
WSW	1.5	2.3	1.3	.2							5.2	5.2
W	1.6	1.0	2.0								4.6	5.4
WNW	.7	1.0	.3	.2							2.1	5.0
VW	.3	1.0	.2								1.5	4.3
NW	.5	1.0	1.0								2.4	5.6

VARIABLE 1.0 .2 1.1 9.1

CALM 20.5

TOTALS 23.6 32.9 20.0 2.9 100.0 4.1

TOTAL NUMBER OF OBSERVATIONS: 614

AIR WEATHER SERVICE/MAC

STATION NUMBER: 105423 STATION NAME: HAYAU AAF GERMANY

DIRECTOR
(DEGREES)

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Abstract

Abstract

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY
PERIOD OF RECORD: 76-77,80-85
MONTH: OCT HOURS(LST): 2100-2300

STATION NUMBER: 105423 STATION NAME: HAVAU AAF GERMANY
PERIOD OF RECORD: 76-77,80-85
MONTH: OCT HOURS(LST): 2100-2300

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N	-	.4	.4	.4
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				5.7

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	2.5	.9	3.5	2.9
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E	—	—	—	—

[illegible]

	3	4	6	9	30
1	3	4	6	9	30

	ESS	6.	6.	9.2	8.4
	ESS	6.	6.	2.6	4.8

	2.5	4.8	.4	7.9	4.0.
S					

[illegible]

Case	Time (min)	Temperature (°C)	Pressure (mm Hg)	Flow (L/min)	Volume (L)	Weight (g)	Color	Texture	Notes
1	1.5	6.0	1.3	1.8	3.9	5.7			
2	1.5	6.0	1.3	1.8	3.9	5.7			
3	1.5	6.0	1.3	1.8	3.9	5.7			
4	1.5	6.0	1.3	1.8	3.9	5.7			
5	1.5	6.0	1.3	1.8	3.9	5.7			
6	1.5	6.0	1.3	1.8	3.9	5.7			
7	1.5	6.0	1.3	1.8	3.9	5.7			
8	1.5	6.0	1.3	1.8	3.9	5.7			
9	1.5	6.0	1.3	1.8	3.9	5.7			
10	1.5	6.0	1.3	1.8	3.9	5.7			
11	1.5	6.0	1.3	1.8	3.9	5.7			
12	1.5	6.0	1.3	1.8	3.9	5.7			
13	1.5	6.0	1.3	1.8	3.9	5.7			
14	1.5	6.0	1.3	1.8	3.9	5.7			
15	1.5	6.0	1.3	1.8	3.9	5.7			
16	1.5	6.0	1.3	1.8	3.9	5.7			
17	1.5	6.0	1.3	1.8	3.9	5.7			
18	1.5	6.0	1.3	1.8	3.9	5.7			
19	1.5	6.0	1.3	1.8	3.9	5.7			
20	1.5	6.0	1.3	1.8	3.9	5.7			
21	1.5	6.0	1.3	1.8	3.9	5.7			
22	1.5	6.0	1.3	1.8	3.9	5.7			
23	1.5	6.0	1.3	1.8	3.9	5.7			
24	1.5	6.0	1.3	1.8	3.9	5.7			
25	1.5	6.0	1.3	1.8	3.9	5.7			
26	1.5	6.0	1.3	1.8	3.9	5.7			
27	1.5	6.0	1.3	1.8	3.9	5.7			
28	1.5	6.0	1.3	1.8	3.9	5.7			
29	1.5	6.0	1.3	1.8	3.9	5.7			
30	1.5	6.0	1.3	1.8	3.9	5.7			
31	1.5	6.0	1.3	1.8	3.9	5.7			
32	1.5	6.0	1.3	1.8	3.9	5.7			
33	1.5	6.0	1.3	1.8	3.9	5.7			
34	1.5	6.0	1.3	1.8	3.9	5.7			
35	1.5	6.0	1.3	1.8	3.9	5.7			
36	1.5	6.0	1.3	1.8	3.9	5.7			
37	1.5	6.0	1.3	1.8	3.9	5.7			
38	1.5	6.0	1.3	1.8	3.9	5.7			
39	1.5	6.0	1.3	1.8	3.9	5.7			
40	1.5	6.0	1.3	1.8	3.9	5.7			
41	1.5	6.0	1.3	1.8	3.9	5.7			
42	1.5	6.0	1.3	1.8	3.9	5.7			
43	1.5	6.0	1.3	1.8	3.9	5.7			
44	1.5	6.0	1.3	1.8	3.9	5.7			
45	1.5	6.0	1.3	1.8	3.9	5.7			
46	1.5	6.0	1.3	1.8	3.9	5.7			
47	1.5	6.0	1.3	1.8	3.9	5.7			
48	1.5	6.0	1.3	1.8					

WSK	1.3	.4	1.8	6.5
WSK	1.3	.4	1.8	6.5

[illegible]

Wavelength, nm	Extinction coefficient, cm^2/mole
214	12,000
227	15,000
244	10,000
258	10,000
270	10,000
280	10,000
290	10,000
300	10,000
310	10,000
320	10,000
330	10,000
340	10,000
350	10,000
360	10,000
370	10,000
380	10,000
390	10,000
400	10,000
410	10,000
420	10,000
430	10,000
440	10,000
450	10,000
460	10,000
470	10,000
480	10,000
490	10,000
500	10,000
510	10,000
520	10,000
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580	10,000
590	10,000
600	10,000
610	10,000
620	10,000
630	10,000
640	10,000
650	10,000
660	10,000
670	10,000
680	10,000
690	10,000
700	10,000
710	10,000
720	10,000
730	10,000
740	10,000
750	10,000
760	10,000
770	10,000
780	10,000
790	10,000
800	10,000
810	10,000
820	10,000
830	10,000
840	10,000
850	10,000
860	10,000
870	10,000
880	10,000
890	10,000
900	10,000
910	10,000
920	10,000
930	10,000
940	10,000
950	10,000
960	10,000
970	10,000
980	10,000
990	10,000
1000	10,000

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MMN	.4	1.3	.4	2.2	5.4
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[illegible]

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AL NUMBER OF OBSERVATIONS: 228

[illegible]

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
 USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAL

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
 MONTH: OCT 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	56	
N	1.2	1.3	.9	.1							1.4	4.1
NNE	.6	.7	.2								2.0	4.2
NE	.9	.7	.4								3.4	4.3
ENE	1.6	1.2	.6	.1							5.6	3.8
E	2.6	2.6	.4								2.9	4.4
ESE	1.1	1.4	.4								2.3	3.7
SE	1.2	.9	.2								5.3	3.8
SSE	2.4	2.4	.4	.0							8.8	4.4
S	3.5	3.7	1.4	.1							9.8	6.6
SSW	1.6	3.7	3.6	.9							8.1	7.6
SW	.9	2.4	3.7	1.1	.1						3.5	5.9
WSW	.9	1.2	1.1	.2							2.8	4.6
W	1.2	.9	.7								1.4	4.8
WNW	.5	.5	.2	.1							.9	3.9
NW	.4	.3	.1	.0							2.7	4.6
NNW	1.0	1.0	.7									
VARIABLE	1.0 .5										1.2	9.0
CALM	1.0 .5										34.5	11111
TOTALS	21.5	24.9	16.1	3.0	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 3178

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

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-88
MONTH: NOV HOURS (LST): 0900-1100

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 56-65 TOTAL WIND

N 1.0 1.9 .7 3.6 4.8

NNE 1.0 .5 1.9 .2 3.6 6.3

NF .8 .3 1.2 2.4 5.6

EVE 1.3 .3 1.7 3.2

E 1.9 .7 .2 2.7 3.8

ESE 1.2 .3 .2 1.7 2.9

SE 2.9 1.2 4.0 3.8

SSE 1.3 3.0 .5 4.9 4.1

S 3.2 4.2 .0 8.3 4.1

SSW 2.0 3.4 3.7 .5 9.6 6.4

SW 1.9 4.7 3.4 1.3 11.3 6.3

WSW 1.3 2.2 1.3 .3 5.2 5.8

W 1.0 1.3 .5 2.9 4.5

WNW .5 .3 1.0 3.8

VW 1.0 .3 .3 1.7 3.9

NVW 1.3 .5 .7 2.5 4.2

VARIANCE

1.7 2.0

CALC

23.3 25.1 17.7 10.4 100.0 3.7

TOTALS

TOTAL NUMBER OF OBSERVATIONS: 593

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

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

RECORD OF RECORD 76-88
MONTH: NOV HOURS (LST): 1200-1400

WIND SPEED IN KNOTS

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	54-59	TOTAL N	MEAN WIND
N	2.2	1.7	2.2	.2								6.3	5.8
NNE	.7	.2	1.4	.5								2.7	7.7
NE	.5	.2	1.2	.2								2.0	7.1
ENE	1.0	.8	.7									2.5	4.6
E	1.2	1.4	.5									3.1	4.2
ESE	1.0	1.9	.5									3.4	4.4
SE	.3	1.7	.5									2.5	3.3
SSE	1.5	1.2	.8									3.6	4.3
S	3.4	2.5	2.0	.2								8.1	4.7
SSW	3.1	3.9	4.9	1.2								13.1	6.3
SW	2.2	3.7	3.9	2.2								12.1	7.3
WSW	1.7	2.7	2.7	1.0	.2							8.3	6.9
W	1.2	1.5	.6	.2								3.7	5.2
WNW	1.2	.5	.7									2.4	4.1
NW	1.0	.8	.8									2.7	4.9
NNW	1.4	1.7	.7	.2								3.9	4.8
VARIABLE	.3	3.2	3.2									6.7	10.5
CALM												13.1	11.1
TOTALS	23.6	26.8	27.7	9.0	.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1800-1700

WIND SPEED IN KNOTS									
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47
N	1.2	2.0	1.2	.2					
NNE	.9	1.0	2.9	.2					
NE	1.2		1.2						
ENE	.3	.7	.3						
E	1.2	.7							
ESE	.7	2.0	.2						
SE	2.2	1.4	.2						
SSE	2.7	2.0	.3						
S	3.6	3.1	1.4	.3					
SSW	2.7	2.0	5.8	.3					
SW	2.0	4.6	3.4	.9					
WSW	1.2	3.1	1.5	1.2					
W	1.0	2.0	1.9	.2					
WNW	.5	.5	.7						
NW	1.5	.7	.2						
NNW	1.7	1.4	.3						
VARIABLE									
CALN									
TOTALS	24.7	27.3	22.2	4.9					

TOTAL NUMBER OF OBSERVATIONS: 586

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

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 76-85
 MONTH: NOV HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	
N	.9	.6	1.5								3.0	5.9
NNE	.5	.6	2.1	.4							3.6	7.1
NE	1.5	.6	.6								2.7	3.6
ENE	1.3	.4									1.7	2.8
E	1.5	.8									2.3	2.8
ESE	.9	.8									1.7	3.3
SE	.8	.6	.2								1.5	4.1
SSE	1.5	2.1	1.7								5.3	5.5
S	4.6	2.3	.6	.6							8.0	3.9
SSW	.5	2.8	3.4	.6							7.4	6.9
SW	.5	4.9	2.3	1.1							8.9	7.0
WSW	.9	1.7	1.7								4.4	5.4
W	.5	.8	1.7								3.0	6.4
WNW	.4	.2	.2								.8	3.5
WN	1.1	.4									1.5	2.3
NNW	.8	1.3	.2								2.3	4.3
VARIABLE				.9							.9	14.2
CALM											41.0	11111
TOTALS	18.5	20.7	16.1	3.6							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 827

GLOBAL CLIMATOLOGY BRANCH
USAF/ETAC
AIR WEATHER SERVICE/HAC

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

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 75-78, 80-85
MONTH: NOV HOURS(1ST): 2100-2300

WIND SPEED IN KNOTS

DIRECTION
(DEGREES)

TOTAL
WIND

1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56-59 60-63 64-67 68-71 72-75 76-79 80-83 84-87 88-91 92-95 96-99 100

0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

N 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

NNE 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

NE 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

ENE 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

E 2.3 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

ESE 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

SE 2.7 1.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

SSE 2.7 2.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

S 2.3 1.8 2.3 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

SSW 1.3 2.3 3.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

SW 1.4 1.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

WSW 0.5 0.5 1.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

W 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

WNW 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

NW 1.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

NWN 20.0 13.6 12.7 2.3 2.5

TOTALS 20.0 13.6 12.7 2.3 2.5

TOTAL NUMBER OF OBSERVATIONS: 220

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

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
 MONTH: NOV HOURS(LST): ALL

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	TOTAL	MEAN WIND
N	1.4	1.4	1.4	1.4	.1							4.2	5.3
NNE	.7	.5	1.9	.3								3.5	6.9
NE	.9	.2	.9	.1								2.1	5.6
ENE	1.0	.4	.3									1.7	3.8
E	1.5	.8	.1									2.5	3.1
ESE	.8	1.0	.2									2.0	3.8
SE	1.5	1.1	.2									2.8	3.6
SSE	2.0	2.3	.7									5.0	4.3
S	3.4	3.0	1.2	.2								7.8	4.4
SSW	2.1	2.8	4.0	.6								9.6	6.4
SW	1.7	4.0	3.2	1.1								10.0	6.5
WSW	1.2	2.3	1.7	.5	.0							5.0	6.0
W	1.0	1.3	1.1	.1								3.5	5.4
WNW	.5	.4	.4	.0	.0							1.4	4.9
NW	1.0	.6	.3									1.9	3.9
NNW	1.5	1.1	.4	.0								3.1	4.1
VARIABLE	.1	1.3	1.8									3.1	11.3
CALM	22.5	23.4	19.2	4.9	.0							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 2948

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: DEC HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	
N	1.0	1.1	.5								2.6	4.8
NNE	.3	.3	.7								1.3	6.5
NE	1.0	1.5	.2								2.6	3.0
NNE	1.6	1.8	.5								3.9	4.3
E	1.5	1.5	.5								3.4	4.0
ESE	.7	.5	.7								1.8	5.0
SE	1.8	.5									2.3	3.1
SSE	2.6	2.1	1.5	.3							6.5	4.8
S	1.5	3.4	1.8	.2							6.0	5.4
SSW	2.8	4.4	4.9	1.0							13.0	6.9
SW	1.5	2.1	2.4	1.8	.3	.2					8.3	8.5
WSW	1.0	1.0	1.5	.2							3.6	6.2
W	.2	.5	.7								1.3	6.9
WNW	.3	.2		.2							.7	6.3
NW	.3	.7		.2							1.1	5.0
NNW	.5	1.0	.7								2.1	5.1
VARIABLE	.2	1.3	1.4								3.3	11.0
CALC	////////////////////											
TOTALS	18.4	22.6	17.6	6.3	.3	.2					100.0	47.0

TOTAL NUMBER OF OBSERVATIONS: 615

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

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
 MONTH: DEC HOURS(LST): 1500-1700

WIND SPEED IN KNOTS

1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56-65 66-75 76-85

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5

TOTAL NUMBER OF OBSERVATIONS: 596

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC FROM MONTHLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-77, 80-85
MONTH: DEC HOURS (LST): 2100-2300

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 56-66 TOTAL % MEAN WIND

N 1.7 .9

NNE .9 3.4

NE .9

NNE 1.7

E 1.7 2.6

ESE 2.6

SE 2.6 .9

SSE 2.6 .9

S 4.3 1.7 2.6

SSW 3.4 5.1 6.0 .9

SW 1.7 4.3 2.6

WSW 3.4 .9

W .9 .9

WNW .9 .9

NW .9 .9

NNW .9 .9

NNE 1.7 2.6

NE 1.7 4.0

NNE 1.7 4.0

E 1.7 2.6

ESE 2.6 2.3

SE 3.4 3.0

SSE 3.4 5.0

S 4.3 4.8

SSW 18.4 5.9

SW 8.5 9.2

WSW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

WNW 2.6 5.7

NW .9 8.0

NNW 2.6 5.0

NNE 2.6 5.0

E 2.6 3.7

ESE 2.6 4.0

SE .9 4.0

SSE .9 4.0

S 1.7 4.5

SSW 4.3 3.6

SW 2.6 2.3

WSW 3.4 3.0

W 3.4 5.0

WNW 4.3 10.6

W .9 10.0

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HKC

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

STATION NUMBER: 105423 STATION NAME: HAVAN KAP GERHANY PERIOD OF RECORD: 76-88
MONTH: DEC HOURS (LST): ALL

WIND SPEED IN KNOTS
1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 56-63 64-71 72-79 80-87 88-95 96-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255 256-263 264-271 272-279 280-287 288-295 296-303 304-311 312-319 320-327 328-335 336-343 344-351 352-359 360-367 368-375 376-383 384-391 392-399 400-407 408-415 416-423 424-431 432-439 440-447 448-455 456-463 464-471 472-479 480-487 488-495 496-503 504-511 512-519 520-527 528-535 536-543 544-551 552-559 560-567 568-575 576-583 584-591 592-599 600-607 608-615 616-623 624-631 632-639 640-647 648-655 656-663 664-671 672-679 680-687 688-695 696-703 704-711 712-719 720-727 728-735 736-743 744-751 752-759 760-767 768-775 776-783 784-791 792-799 800-807 808-815 816-823 824-831 832-839 840-847 848-855 856-863 864-871 872-879 880-887 888-895 896-903 904-911 912-919 920-927 928-935 936-943 944-951 952-959 960-967 968-975 976-983 984-991 992-999 1000-1007 1008-1015 1016-1023 1024-1031 1032-1039 1040-1047 1048-1055 1056-1063 1064-1071 1072-1079 1080-1087 1088-1095 1096-1103 1104-1111 1112-1119 1120-1127 1128-1135 1136-1143 1144-1151 1152-1159 1160-1167 1168-1175 1176-1183 1184-1191 1192-1199 1200-1207 1208-1215 1216-1223 1224-1231 1232-1239 1240-1247 1248-1255 1256-1263 1264-1271 1272-1279 1280-1287 1288-1295 1296-1303 1304-1311 1312-1319 1320-1327 1328-1335 1336-1343 1344-1351 1352-1359 1360-1367 1368-1375 1376-1383 1384-1391 1392-1399 1400-1407 1408-1415 1416-1423 1424-1431 1432-1439 1440-1447 1448-1455 1456-1463 1464-1471 1472-1479 1480-1487 1488-1495 1496-1503 1504-1511 1512-1519 1520-1527 1528-1535 1536-1543 1544-1551 1552-1559 1560-1567 1568-1575 1576-1583 1584-1591 1592-1599 1600-1607 1608-1615 1616-1623 1624-1631 1632-1639 1640-1647 1648-1655 1656-1663 1664-1671 1672-1679 1680-1687 1688-1695 1696-1703 1704-1711 1712-1719 1720-1727 1728-1735 1736-1743 1744-1751 1752-1759 1760-1767 1768-1775 1776-1783 1784-1791 1792-1799 1800-1807 1808-1815 1816-1823 1824-1831 1832-1839 1840-1847 1848-1855 1856-1863 1864-1871 1872-1879 1880-1887 1888-1895 1896-1903 1904-1911 1912-1919 1920-1927 1928-1935 1936-1943 1944-1951 1952-1959 1960-1967 1968-1975 1976-1983 1984-1991 1992-1999 2000-2007 2008-2015 2016-2023 2024-2031 2032-2039 2040-2047 2048-2055 2056-2063 2064-2071 2072-2079 2080-2087 2088-2095 2096-2103 2104-2111 2112-2119 2120-2127 2128-2135 2136-2143 2144-2151 2152-2159 2160-2167 2168-2175 2176-2183 2184-2191 2192-2199 2200-2207 2208-2215 2216-2223 2224-2231 2232-2239 2240-2247 2248-2255 2256-2263 2264-2271 2272-2279 2280-2287 2288-2295 2296-2303 2304-2311 2312-2319 2320-2327 2328-2335 2336-2343 2344-2351 2352-2359 2360-2367 2368-2375 2376-2383 2384-2391 2392-2399 2400-2407 2408-2415 2416-2423 2424-2431 2432-2439 2440-2447 2448-2455 2456-2463 2464-2471 2472-2479 2480-2487 2488-2495 2496-2503 2504-2511 2512-2519 2520-2527 2528-2535 2536-2543 2544-2551 2552-2559 2560-2567 2568-2575 2576-2583 2584-2591 2592-2599 2600-2607 2608-2615 2616-2623 2624-2631 2632-2639 2640-2647 2648-2655 2656-2663 2664-2671 2672-2679 2680-2687 2688-2695 2696-2703 2704-2711 2712-2719 2720-2727 2728-2735 2736-2743 2744-2751 2752-2759 2760-2767 2768-2775 2776-2783 2784-2791 2792-2799 2800-2807 2808-2815 2816-2823 2824-2831 2832-2839 2840-2847 2848-2855 2856-2863 2864-2871 2872-2879 2880-2887 2888-2895 2896-2903 2904-2911 2912-2919 2920-2927 2928-2935 2936-2943 2944-2951 2952-2959 2960-2967 2968-2975 2976-2983 2984-2991 2992-2999 3000-3007 3008-3015 3016-3023 3024-3031 3032-3039 3040-3047 3048-3055 3056-3063 3064-3071 3072-3079 3080-3087 3088-3095 3096-3103 3104-3111 3112-3119 3120-3127 3128-3135 3136-3143 3144-3151 3152-3159 3160-3167 3168-3175 3176-3183 3184-3191 3192-3199 3200-3207 3208-3215 3216-3223 3224-3231 3232-3239 3240-3247 3248-3255 3256-3263 3264-3271 3272-3279 3280-3287 3288-3295 3296-3303 3304-3311 3312-3319 3320-3327 3328-3335 3336-3343 3344-3351 3352-3359 3360-3367 3368-3375 3376-3383 3384-3391 3392-3399 3400-3407 3408-3415 3416-3423 3424-3431 3432-3439 3440-3447 3448-3455 3456-3463 3464-3471 3472-3479 3480-3487 3488-3495 3496-3503 3504-3511 3512-3519 3520-3527 3528-3535 3536-3543 3544-3551 3552-3559 3560-3567 3568-3575 3576-3583 3584-3591 3592-3599 3600-3607 3608-3615 3616-3623 3624-3631 3632-3639 3640-3647 3648-3655 3656-3663 3664-3671 3672-3679 3680-3687 3688-3695 3696-3703 3704-3711 3712-3719 3720-3727 3728-3735 3736-3743 3744-3751 3752-3759 3760-3767 3768-3775 3776-3783 3784-3791 3792-3799 3800-3807 3808-3815 3816-3823 3824-3831 3832-3839 3840-3847 3848-3855 3856-3863 3864-3871 3872-3879 3880-3887 3888-3895 3896-3903 3904-3911 3912-3919 3920-3927 3928-3935 3936-3943 3944-3951 3952-3959 3960-3967 3968-3975 3976-3983 3984-3991 3992-3999 4000-4007 4008-4015 4016-4023 4024-4031 4032-4039 4040-4047 4048-4055 4056-4063 4064-4071 4072-4079 4080-4087 4088-4095 4096-4103 4104-4111 4112-4119 4120-4127 4128-4135 4136-4143 4144-4151 4152-4159 4160-4167 4168-4175 4176-4183 4184-4191 4192-4199 4200-4207 4208-4215 4216-4223 4224-4231 4232-4239 4240-4247 4248-4255 4256-4263 4264-4271 4272-4279 4280-4287 4288-4295 4296-4303 4304-4311 4312-4319 4320-4327 4328-4335 4336-4343 4344-4351 4352-4359 4360-4367 4368-4375 4376-4383 4384-4391 4392-4399 4400-4407 4408-4415 4416-4423 4424-4431 4432-4439 4440-4447 4448-4455 4456-4463 4464-4471 4472-4479 4480-4487 4488-4495 4496-4503 4504-4511 4512-4519 4520-4527 4528-4535 4536-4543 4544-4551 4552-4559 4560-4567 4568-4575 4576-4583 4584-4591 4592-4599 4600-4607 4608-4615 4616-4623 4624-4631 4632-4639 4640-4647 4648-4655 4656-4663 4664-4671 4672-4679 4680-4687 4688-4695 4696-4703 4704-4711 4712-4719 4720-4727 4728-4735 4736-4743 4744-4751 4752-4759 4760-4767 4768-4775 4776-4783 4784-4791 4792-4799 4800-4807 4808-4815 4816-4823 4824-4831 4832-4839 4840-4847 4848-4855 4856-4863 4864-4871 4872-4879 4880-4887 4888-4895 4896-4903 4904-4911 4912-4919 4920-4927 4928-4935 4936-4943 4944-4951 4952-4959 4960-4967 4968-4975 4976-4983 4984-4991 4992-4999 5000-5007 5008-5015 5016-5023 5024-5031 5032-5039 5040-5047 5048-5055 5056-5063 5064-5071 5072-5079 5080-5087 5088-5095 5096-5103 5104-5111 5112-5119 5120-5127 5128-5135 5136-5143 5144-5151 5152-5159 5160-5167 5168-5175 5176-5183 5184-5191 5192-5199 5200-5207 5208-5215 5216-5223 5224-5231 5232-5239 5240-5247 5248-5255 5256-5263 5264-5271 5272-5279 5280-5287 5288-5295 5296-5303 5304-5311 5312-5319 5320-5327 5328-5335 5336-5343 5344-5351 5352-5359 5360-5367 5368-5375 5376-5383 5384-5391 5392-5399 5400-5407 5408-5415 5416-5423 5424-5431 5432-5439 5440-5447 5448-5455 5456-5463 5464-5471 5472-5479 5480-5487 5488-5495 5496-5503 5504-5511 5512-5519 5520-5527 5528-5535 5536-5543 5544-5551 5552-5559 5560-5567 5568-5575 5576-5583 5584-5591 5592-5599 5600-5607 5608-5615 5616-5623 5624-5631 5632-5639 5640-5647 5648-5655 5656-5663 5664-5671 5672-5679 5680-5687 5688-5695 5696-5703 5704-5711 5712-5719 5720-5727 5728-5735 5736-5743 5744-5751 5752-5759 5760-5767 5768-5775 5776-5783 5784-5791 5792-5799 5800-5807 5808-5815 5816-5823 5824-5831 5832-5839 5840-5847 5848-5855 5856-5863 5864-5871 5872-5879 5880-5887 5888-5895 5896-5903 5904-5911 5912-5919 5920-5927 5928-5935 5936-5943 5944-5951 5952-5959 5960-5967 5968-5975 5976-5983 5984-5991 5992-5999 6000-6007 6008-6015 6016-6023 6024-6031 6032-6039 6040-6047 6048-6055 6056-6063 6064-6071 6072-6079 6080-6087 6088-6095 6096-6103 6104-6111 6112-6119 6120-6127 6128-6135 6136-6143 6144-6151 6152-6159 6160-6167 6168-6175 6176-6183 6184-6191 6192-6199 6200-6207 6208-6215 6216-6223 6224-6231 6232-6239 6240-6247 6248-6255 6256-6263 6264-6271 6272-6279 6280-6287 6288-6295 6296-6303 6304-6311 6312-6319 6320-6327 6328-6335 6336-6343 6344-6351 6352-6359 6360-6367 6368-6375 6376-6383 6384-6391 6392-6399 6400-6407 6408-6415 6416-6423 6424-6431 6432-6439 6440-6447 6448-6455 6456-6463 6464-6471 6472-6479 6480-6487 6488-6495 6496-6503 6504-6511 6512-6519 6520-6527 6528-6535 6536-6543 6544-6551 6552-6559 6560-6567 6568-6575 6576-6583 6584-6591 6592-6599 6600-6607 6608-6615 6616-6623 6624-6631 6632-6639 6640-6647 6648-6655 6656-6663 6664-6671 6672-6679 6680-6687 6688-6695 6696-6703 6704-6711 6712-6719 6720-6727 6728-6735 6736-6743 6744-6751 6752-6759 6760-6767 6768-6775 6776-6783 6784-6791 6792-6799 6800-6807 6808-6815 6816-6823 6824-6831 6832-6839 6840-6847 6848-6855 6856-6863 6864-6871 6872-6879 6880-6887 6888-6895 6896-6903 6904-6911 6912-6919 6920-6927 6928-6935 6936-6943 6944-6951 6952-6959 6960-6967 6968-6975 6976-6983 6984-6991 6992-6999 7000-7007 7008-7015 7016-7023 7024-7031 7032-7039 7040-7047 7048-7055 7056-7063 7064-7071 7072-7079 7080-7087 7088-7095 7096-7103 7104-7111 7112-7119 7120-7127 7128-7135 7136-7143 7144-7151 7152-7159 7160-7167 7168-7175 7176-7183 7184-7191 7192-7199 7200-7207 7208-7215 7216-7223 7224-7231 7232-7239 7240-7247 7248-7255 7256-7263 7264-7271 7272-7279 7280-7287 7288-7295 7296-7303 7304-7311 7312-7319 7320-7327 7328-7335 7336-7343 7344-7351 7352-7359 7360-7367 7368-7375 7376-7383 7384-7391 7392-7399 7400-7407 7408-7415 7416-7423 7424-7431 7432-7439 7440-7447 7448-7455 7456-7463 7464-7471 7472-7479 7480-7487 7488-7495 7496-7503 7504-7511 7512-7519 7520-7527 7528-7535 7536-7543 7544-7551 7552-7559 7560-7567 7568-7575 7576-7583 7584-7591 7592-7599 7600-7607 7608-7615 7616-7623 7624-7631 7632-7639 7640-7647 7648-7655 7656-7663 7664-7671 7672-7679 7680-7687 7688-7695 7696-7703 7704-7711 7712-7719 7720-7727 7728-7735 7736-7743 7744-7751 7752-7759 7760-7767 7768-7775 7776-7783 7784-7791 7792-7799 7800-7807 7808-7815 7816-7823 7824-7831 7832-7839 7840-7847 7848-7855 7856-7863 7864-7871 7872-7879 7880-7887 7888-7895 7896-7903 7904-7911 7912-7919 7920-7927 7928-7935 7936-7943 7944-7951 7952-7959 7960-7967 7968-7975 7976-7983 7984-7991 7992-7999 8000-8007 8008-8015 8016-8023 8024-8031 8032-8039 8040-8047 8048-8055 8056-8063 8064-8071 8072-8079 8080-8087 8088-8095 8096-8103 8104-8111 8112-8119 8120-8127 8128-8135 8136-8143 8144-8151 8152-8159 8160-8167 8168-8175 8176-8183 8184-8191 8192-8199 8200-8207 8208-8215 8216-8223 8224-8231 8232-8239 8240-8247 8248-8255 8256-8263 8264-8271 8272-8279 8280-8287 8288-8295 8296-8303 8304-8311 8312-8319 8320-8327 8328-8335 8336-8343 8344-8351 8352-8359 8360-8367 8368-8375 8376-8383 8384-8391 8392-8399 8400-8407 8408-8415 8416-8423 8424-8431 8432-8439 8440-8447 8448-8455 8456-8463 8464-8471 8472-8479 8480-8487 8488-8495 8496-8503 8504-8511 8512-8519 8520-8527 8528-8535 8536-8543 8544-8551 8552-8559 8560-8567 8568-8575 8576-8583 8584-8591 8592-8599 8600-8607 8608-8615 8616-8623 8624-8631 8632-8639 8640-8647 8648-8655 8656-8663 8664-8671 8672-8679 8680-8687 8688-8695 8696-8703 8704-8711 8712-8719 8720-8727 8728-8735 8736-8743 8744-8751 8752-8759 8760-8767 8768-8775 8776-8783 8784-8791 8792-8799 8800-8807 8808-8815 8816-8823 8824-8831 8832-8839 8840-8847 8848-8855 8856-8863 8864-8871 8872-8879 8880-8887 8888-8895 8896-8903 8904-8911 8912-8919 8920-8927 8928-8935 8936-8943 8944-8951 8952-8959 8960-8967 8968-8975 8976-8983 8984-8991 8992-8999 9000-9007 9008-9015 9016-9023 9024-9031 9032-9039 9040-9047 9048-9055 9056-9063 9064-9071 9072-9079 9080-9087 9088-9095 9096-9103 9104-9111 9112-9119 9120-9127 9128-9135 9136-9143 9144-9151 9152-9159 9160-9167 9168-9175 9176-9183 9184-9191 9192-9199 9200-9207 9208-9215 9216-9223 9224-9231 9232-9239 9240-9247 9248-9255 9256-9263 9264-9271 9272-9279 9280-9287 9288-9295 9296-9303 9304-9311 9312-9319 9320-9327 9328-9335 9336-9343 9344-9351 9352-9359 9360-9367 9368-9375 9376-9383 9384-9391 9392-9399 9400-9407 9408-9415 9416-9423 9424-9431 9432-9439 9440-9447 9448-9455 9456-9463 9464-9471 9472-9479 9480-9487 9488-9495 9496-9503 9504-9511 9512-9519 9520-9527 9528-9535 9536-9543 9544-9551 9552-9559 9560-9567 9568-9575 9576-9583 9584-9591 9592-9599 9600-9607 9608-9615 9616-9623 9624-9631 9632-9639 9640-9647 9648-9655 9656-9663 9664-9671 9672-9679 9680-9687 9688-9695 9696-9703 9704-9711 9712-9719 9720-9727 9728-9735 9736-9743 9744-9751 9752-9759 9760-9767 9768-9775 9776-9783 9784-9791 9792-9799 9800-9807 9808-9815 9816-9823 9824-9831 9832-9839 9840-9847 9848-9855 9856-9863 9864-9871 9872-9879 9880-9887 9888-9895 9896-9903 9904-9911 9912-9919

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

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-86 MONTH: ALL HOURS (LST): ALL

DIRECTION (DEGREES)	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-50	TOTAL	MEAN WIND
N	1.9	1.7	1.0	.1						4.8	4.7
NNE	1.2	1.2	.9	.2						3.8	5.3
NE	1.0	1.0	.6	.1	.0					2.0	5.0
ENE	1.4	1.4	.5	.0						3.4	4.3
E	1.4	1.7	.6	.0						3.7	4.4
ESE	.9	.9	.4	.0						2.2	4.3
SF	.9	.8	.3	.0						1.9	4.1
SSE	1.7	1.6	.6	.0						3.9	4.2
S	2.4	3.0	1.4	.2	.0					7.0	4.9
SSW	1.4	3.0	3.1	.8	.0	.0				8.4	6.6
SW	1.0	2.7	3.2	1.2	.1	.0	.0			8.2	7.4
WSW	1.3	1.9	1.6	.5	.0	.0				5.4	6.2
W	1.3	1.7	1.3	.3	.0	.0				4.6	5.7
WNW	.9	1.2	.7	.1	.0	.0				3.0	5.2
WW	.9	1.0	.5	.1	.0					2.8	4.9
NNW	1.7	1.7	.9	.2	.0	.0				4.4	4.8
VARIANCE	.3	.1	2.0	.7	.1	.0				2.9	9.0
CALC	21.5	26.5	19.6	4.6	.2	.0	.0			100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 39521

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

STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-86
MONTH: ALL HOURS(1571) 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 30-40 41-47 48-55 56-66 TOTAL MEAN WIND

N 2.3 1.4 .4 .1

NNE .9 .9 .4 .0

NE .7 .7 .3

ENE 1.0 .7 .0

E 1.2 .7 .0

ESE 1.3 .0 .2

SE 1.4 .7 .2

SSE 2.6 1.8 .6

S 4.2 3.5 1.3 .2

SSW 2.5 3.3 3.2 .7

SW 1.5 2.1 1.8 .6 .0

WSW 1.3 .9 .5 .0

W .6 .3 .1

WNW .3 .3 .1 .0

W .7 .4 .1 .0

WNW 1.6 1.1 .7 .1

VARIABLE .0 .4 .3

GALP .0 .4 .3

TOTALS 23.9 19.8 10.3 2.0 .0

MEAN WIND 4.2 3.6

TOTAL NUMBER OF OBSERVATIONS: 4084

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CEILING VERSUS VISIBILITY

PART 3

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling," versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and the tables are presented by month and available 3-hour groups.

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

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the 10 mi visibility category should be used with great caution.

For overseas civilian stations reporting "CAVOK", all ceilings greater than 5,000 feet are suppressed into the 5,000 foot ceiling class.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105023 STATION NAME: HANAU AAF GERMANY

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

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	40	32	24	20	16	12	10	8	5	4	0
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NO	CEIL	9.7	10.9	14.9	15.9	16.8	18.4	18.8	19.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
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GE 20000	12.6	13.8	18.1	19.3	20.5	22.2	22.8	23.1	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
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GE 18000	12.7	14.1	18.4	19.7	20.9	22.6	23.2	23.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
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GE 16000	12.7	14.1	18.4	19.7	20.9	22.6	23.2	23.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
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GE 14000	12.9	14.3	18.5	19.9	21.1	22.8	23.4	23.7	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
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GE 12000	13.5	14.9	19.1	20.5	21.7	23.4	24.0	24.3	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
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GE 10000	14.3	15.6	20.0	21.4	22.6	24.4	25.0	25.3	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
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GE 9000	15.8	17.1	21.5	22.9	24.1	25.9	26.6	26.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
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GE 8000	19.8	20.3	24.9	26.3	27.6	29.4	30.3	30.8	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
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GE 7000	19.6	21.1	25.9	27.3	28.7	30.5	31.4	32.0	33.5	33.7	34.0	34.0	34.0	34.0	34.0	34.0
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GE 6000	19.7	21.2	26.1	27.5	28.8	30.7	31.6	32.2	33.7	33.8	34.1	34.1	34.1	34.1	34.1	34.1
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GE 5000	22.8	24.6	29.7	31.1	32.5	34.3	35.2	36.6	38.1	38.2	38.5	38.5	38.5	38.5	38.5	38.5
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GE 4500	24.6	26.4	32.3	34.0	35.4	37.5	38.4	39.9	41.7	41.9	42.2	42.2	42.2	42.2	42.2	42.2
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GE 4000	27.8	29.6	36.4	38.1	39.5	41.6	42.5	44.0	45.8	46.0	46.3	46.3	46.3	46.3	46.3	46.3
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GE 3500	29.7	31.6	39.0	40.7	42.2	44.5	45.5	47.2	49.3	49.5	49.9	49.9	49.9	49.9	49.9	49.9
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GE 3000	35.2	37.0	46.3	48.4	50.4	53.1	54.2	55.8	58.0	58.3	58.7	58.7	58.7	58.7	58.7	58.7
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GE 2500	39.6	41.7	51.7	54.5	56.8	59.8	60.8	62.5	64.6	64.9	65.4	65.4	65.4	65.4	65.4	65.4
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GE 2000	44.3	47.3	58.1	61.0	63.1	67.1	68.7	70.6	72.8	73.1	73.7	73.7	73.7	73.7	73.7	73.7
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GE 1800	44.9	48.0	58.9	61.9	64.0	68.4	70.1	71.9	74.2	74.5	75.1	75.1	75.1	75.1	75.1	75.1
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GE 1500	46.4	49.8	61.8	65.9	68.3	73.7	75.7	77.5	80.0	80.7	81.6	81.6	81.6	81.6	81.6	81.6
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GE 1200	48.0	51.4	63.9	68.0	71.0	77.2	79.4	81.2	83.6	84.7	85.6	85.6	85.6	85.6	85.6	85.6
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GE 1000	49.0	52.5	65.7	70.6	73.3	80.1	82.4	84.7	87.4	88.5	89.5	89.5	89.5	89.5	89.5	89.5
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GE 900	49.3	52.8	66.0	71.0	73.7	81.2	83.5	85.9	88.6	89.7	90.7	90.7	90.7	90.7	90.7	90.7
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GE 800	49.3	53.0	66.6	72.1	74.8	83.3	85.9	88.6	91.4	92.4	93.5	93.5	93.5	93.5	93.5	93.5
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GE 700	49.3	53.0	66.6	72.4	75.4	84.2	87.1	90.1	92.9	93.9	95.0	95.0	95.0	95.0	95.0	95.0
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GE 600	49.3	53.0	66.6	72.5	75.6	84.5	87.6	90.6	94.1	95.4	96.5	96.5	96.5	96.5	96.5	96.5
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GE 500	49.3	53.0	66.9	72.5	75.6	84.5	87.6	90.6	94.7	96.2	97.3	97.3	97.3	97.3	97.3	97.3
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GE 400	49.3	53.0	66.9	72.5	75.6	84.5	87.6	90.6	94.7	96.4	97.4	97.4	97.4	97.4	97.4	97.4
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GE 300	49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	97.4	97.4	97.4	97.4	97.4
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GE 200	49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	97.4	97.4	97.4	97.4	97.4
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GE 100	49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	97.4	97.4	97.4	97.4	97.4
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GE 01	49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	97.4	97.4	97.4	97.4	97.4
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TOTAL NUMBER OF OBSERVATIONS: 659

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(UST): 1200-1400

CEILING

IN FT VISIBILITY IN HUNDREDS OF METERS
GE 160 GE 16 GE 12 GE 10 GE 8 GE 5 GE 4 GE 0

NO CEIL 11.6 12.1 17.6 19.3 19.3 19.3 20.3 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6

GE 20000 15.4 15.9 22.3 24.2 24.2 25.4 26.8 26.8 26.8 26.8 26.8 26.8 26.8 26.8 26.8

GE 18000 16.1 16.5 22.9 24.8 24.8 26.0 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4

GE 16000 16.1 16.5 22.9 24.8 24.8 26.0 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4

GE 14000 16.5 17.0 23.4 25.2 25.2 26.5 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8

GE 12000 17.4 17.9 24.9 26.8 26.8 28.1 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5

GE 10000 19.1 19.6 26.8 28.6 28.6 30.0 31.3 31.3 31.3 31.3 31.3 31.3 31.3 31.3 31.3

GE 9000 21.7 22.2 30.3 32.1 32.1 33.6 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0

GE 8000 22.9 23.4 31.7 33.5 33.5 35.0 36.4 36.4 36.4 36.4 36.4 36.4 36.4 36.4 36.4

GE 7000 23.1 23.5 31.8 33.6 33.6 35.2 36.5 36.5 36.5 36.5 36.5 36.5 36.5 36.5 36.5

GE 6000 26.8 27.8 37.8 39.6 39.6 41.1 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5

GE 5000 28.1 29.4 39.8 41.6 41.6 43.1 44.5 44.5 44.5 44.5 44.5 44.5 44.5 44.5 44.5

GE 4500 31.2 32.4 43.0 45.3 45.3 46.5 48.0 48.0 48.0 48.0 48.0 48.0 48.0 48.0 48.0

GE 4000 34.6 35.8 47.1 49.7 49.7 50.0 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8

GE 3500 40.1 41.6 55.4 58.6 58.6 60.9 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4

GE 3000 42.4 44.0 58.6 62.1 62.1 65.0 66.5 66.5 66.5 66.5 66.5 66.5 66.5 66.5 66.5

GE 2500 48.8 50.9 66.1 70.0 70.0 73.4 75.1 75.1 75.1 75.1 75.1 75.1 75.1 75.1 75.1

GE 2000 50.3 52.4 67.9 72.3 72.3 75.8 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77.5

GE 1500 52.3 54.7 71.4 76.3 76.3 80.6 82.3 82.3 82.3 82.3 82.3 82.3 82.3 82.3 82.3

GE 1200 54.3 56.9 74.9 80.1 80.1 84.9 86.9 86.9 86.9 86.9 86.9 86.9 86.9 86.9 86.9

GE 1000 54.4 57.2 76.0 81.2 81.2 86.2 88.5 88.5 88.5 88.5 88.5 88.5 88.5 88.5 88.5

GE 900 54.6 57.3 76.6 82.0 82.0 87.3 89.9 89.9 89.9 89.9 89.9 89.9 89.9 89.9 89.9

GE 800 54.9 57.6 77.5 82.9 82.9 88.4 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1

GE 700 54.9 57.6 77.7 83.2 83.2 88.7 91.4 91.4 91.4 91.4 91.4 91.4 91.4 91.4 91.4

GE 600 54.9 57.6 77.8 83.3 83.3 88.8 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6

GE 500 54.9 57.6 77.8 83.3 83.3 88.8 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 400 54.9 57.6 77.8 83.3 83.3 88.8 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 300 54.9 57.6 77.8 83.3 83.3 88.8 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 200 54.9 57.6 77.8 83.3 83.3 88.8 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 100 54.9 57.6 77.8 83.3 83.3 88.8 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 0 54.9 57.6 77.8 83.3 83.3 88.8 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9

TOTAL NUMBER OF OBSERVATIONS: 654

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JAN HOURS(LST): 1800-2000

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	13.8	14.2	17.6	18.7	19.6	21.5	21.9	22.1	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 20000	15.0	15.3	18.7	20.2	21.3	23.0	23.4	23.6	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
GE 18000	15.3	15.7	19.1	20.5	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 16000	15.3	15.7	19.1	20.5	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 14000	15.3	15.7	19.1	20.5	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 12000	16.8	17.2	20.6	22.1	23.2	24.9	25.2	25.4	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
GE 10000	17.9	18.3	21.7	23.2	24.3	26.0	26.4	26.5	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
GE 9000	19.7	19.1	22.6	24.1	25.2	26.9	27.3	27.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
GE 8000	20.4	21.1	23.4	25.0	26.4	28.1	28.5	28.7	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
GE 7000	22.1	22.8	25.3	27.0	28.4	30.1	30.5	30.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
GE 6000	22.2	23.0	25.9	27.7	29.1	30.8	31.2	31.4	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 5000	23.4	24.7	27.2	29.1	30.5	32.2	32.6	32.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 4000	24.5	25.8	28.7	30.7	32.1	33.8	34.2	34.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
GE 3500	29.5	31.2	33.5	35.2	36.9	38.6	39.0	39.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
GE 3000	31.8	33.8	36.1	38.1	39.8	41.5	41.9	42.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 3000	36.8	39.8	42.1	44.1	46.4	48.1	48.5	48.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 2500	39.8	43.4	46.1	48.1	50.0	51.7	52.1	52.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 2000	45.0	49.7	52.3	54.3	56.2	58.1	58.5	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1800	45.2	49.9	52.5	54.5	56.4	58.3	58.7	58.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 1500	47.1	51.8	54.4	56.4	58.3	60.2	60.6	60.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 1200	47.7	52.5	55.1	57.1	59.0	60.9	61.3	61.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
GE 1000	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 900	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 800	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 700	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 600	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 500	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 400	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 300	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 200	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 100	48.0	52.9	55.5	57.5	59.4	61.3	61.7	61.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 0	48.2	53.1	55.6	57.6	59.5	61.4	61.8	62.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0

TOTAL NUMBER OF OBSERVATIONS: 535

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77,81-86 MONTH: JAN HOURS(LST): 2100-2300

CEILINGS VISIBILITY IN HUNDREDS OF METERS

IN FT 160 140 120 100 80 60 48 40 32 24 20 16 12 10 8 5 4 0

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NO CEIL 11.5 14.4 16.1 17.2 20.1 22.4 22.4 22.4 23.6 24.7 25.3 25.3 25.3 25.3 25.3 25.3 25.3

GE 2000 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 28.7 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 1800 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 1600 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 1400 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 1200 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 1000 12.1 14.9 17.2 19.5 22.4 24.7 24.7 24.7 25.9 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3

GE 900 13.2 16.1 18.4 20.7 23.6 25.9 25.9 27.0 30.5 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0

GE 800 13.2 16.1 19.0 21.3 24.1 27.0 27.0 28.2 31.6 33.3 33.3 33.3 33.3 33.3 33.3 33.3 33.3

GE 700 14.4 17.2 20.7 23.0 25.9 28.7 28.7 29.9 33.3 35.1 35.1 35.1 35.1 35.1 35.1 35.1 35.1

GE 600 14.9 17.8 21.3 23.5 26.4 29.3 29.3 30.5 33.9 35.6 35.6 35.6 35.6 35.6 35.6 35.6 35.6

GE 500 16.7 19.5 23.0 25.9 28.7 32.2 32.2 33.3 36.8 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5

GE 400 17.8 20.7 24.1 27.0 29.9 33.3 33.3 34.5 39.1 40.8 40.8 40.8 40.8 40.8 40.8 40.8 40.8

GE 300 24.1 27.0 30.5 33.3 36.2 39.7 39.7 40.8 45.4 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1

GE 200 29.9 32.6 37.4 40.2 43.7 47.1 47.1 48.3 52.9 54.6 54.6 54.6 54.6 54.6 54.6 54.6 54.6

GE 100 37.4 41.4 48.3 51.1 54.5 58.0 58.0 59.2 63.8 66.1 66.1 66.1 66.1 66.1 66.1 66.1 66.1

GE 2500 40.8 46.0 53.4 56.3 59.8 63.2 63.2 64.4 69.0 71.3 71.3 71.3 71.3 71.3 71.3 71.3 71.3

GE 2000 45.0 51.7 62.1 64.9 68.4 74.1 74.1 75.3 79.9 82.8 82.8 82.8 82.8 82.8 82.8 82.8 82.8

GE 1800 46.0 51.7 62.1 65.5 69.0 74.7 74.7 75.9 80.5 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3

GE 1600 47.1 52.9 63.8 67.8 71.3 77.0 77.0 78.2 83.3 86.2 86.2 86.2 86.2 86.2 86.2 86.2 86.2

GE 1400 48.9 54.6 67.8 71.8 75.3 82.2 82.2 83.3 89.1 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0

GE 1200 48.9 54.6 69.0 73.0 76.4 83.3 83.3 84.5 90.2 93.1 93.1 93.1 93.1 93.1 93.1 93.1 93.1

GE 1000 48.9 54.6 69.0 73.0 76.4 83.3 83.3 85.1 90.8 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7

GE 800 48.9 54.6 69.0 73.0 77.0 83.9 83.9 85.1 91.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 700 48.9 54.6 69.5 73.5 77.6 84.5 84.5 85.6 91.9 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 600 48.9 54.6 69.5 73.5 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 500 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 400 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 300 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 200 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 100 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

GE 01 48.9 54.6 69.5 73.6 78.2 85.1 85.1 86.2 92.0 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8

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TOTAL NUMBER OF OBSERVATIONS: 174

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(1ST): ALL

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(1ST): ALL

CEILING
VISIBILITY IN HUNDREDS OF METERS

[illegible]

Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

[illegible][illegible]

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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Year	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
1959	14.9	15.9	20.4	22.3	23.3	24.6	25.4	25.7	26.7	26.7	26.7	26.7
1960	15.0	16.0	20.5	22.4	23.4	24.7	25.5	25.8	26.8	26.8	26.8	26.8
1961	15.1	16.1	20.6	22.5	23.5	24.8	25.6	25.9	26.9	26.9	26.9	26.9
1962	15.2	16.2	20.7	22.6	23.6	24.9	25.7	26.0	27.0	27.0	27.0	27.0
1963	15.3	16.3	20.8	22.7	23.7	25.0	25.8	26.1	27.1	27.1	27.1	27.1
1964	15.4	16.4	20.9	22.8	23.8	25.1	25.9	26.2	27.2	27.2	27.2	27.2
1965	15.5	16.5	21.0	22.9	23.9	25.2	26.0	26.3	27.3	27.3	27.3	27.3
1966	15.6	16.6	21.1	23.0	24.0	25.3	26.1	26.4	27.4	27.4	27.4	27.4
1967	15.7	16.7	21.2	23.1	24.1	25.4	26.2	26.5	27.5	27.5	27.5	27.5
1968	15.8	16.8	21.3	23.2	24.2	25.5	26.3	26.6	27.6	27.6	27.6	27.6
1969	15.9	16.9	21.4	23.3	24.3	25.6	26.4	26.7	27.7	27.7	27.7	27.7
1970	16.0	17.0	21.5	23.4	24.4	25.7	26.5	26.8	27.8	27.8	27.8	27.8

SE 140901	15.0	16.0	20.5	22.4	23.1	24.8	25.5	26.8	26.8	26.8
SE 120301	15.6	16.6	21.1	23.0	23.8	25.4	26.1	27.4	27.4	27.5

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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[illegible][illegible][illegible]

5E	50001	24.0	25.6	32.5	34.9	35.8	37.6	38.6	39.6	41.0	41.3	41.5	41.6	41.6
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[illegible][illegible]

37.4	39.9	50.4	53.8	54.8	57.5	58.8	60.0	61.9	62.2	62.6	62.7	62.7
37.4	39.9	50.4	53.8	54.8	57.5	58.8	60.0	61.9	62.2	62.6	62.7	62.7

GE 25301	40.7	43.5	54.8	58.6	59.7	62.7	64.1	65.2	67.2	67.5	67.9	68.0	68.0
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45.9	49.7	52.8	66.8	68.1	71.7	73.6	74.8	76.8	77.3	77.7	77.8	77.9	77.9
45.9	50.7	54.2	58.7	60.0	62.7	65.7	67.8	70.0	70.6	70.8	70.8	70.8	70.8

[illegible]

6E	12001	49.9	54.1	69.9	75.4	77.0	82.0	84.2	85.8	88.3	88.9	89.4	89.5	89.6	89.6
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	50.3	54.6	70.8	76.4	78.1	83.4	85.8	87.5	90.1	90.9	91.4	91.6	91.7
GGE 10201	50.3	54.6	70.8	76.4	78.1	83.4	85.8	87.5	90.1	90.9	91.4	91.6	91.7

GE	900	50.5	54.7	71.3	76.9	78.6	84.3	86.9	88.6	91.3	92.1	92.6	92.9	93.0	93.1
GE	800	50.6	54.8	71.7	77.5	79.2	85.2	88.1	90.0	92.9	93.7	94.3	94.6	94.7	94.8

700	50.6	54.8	71.8	77.7	79.5	85.6	88.8	90.8	93.8	94.6	95.1	95.5	95.6	95.8
701	50.6	54.8	71.8	77.7	79.5	85.6	88.8	90.8	93.8	94.6	95.1	95.5	95.6	95.8

[illegible]

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)	(99)	(100)	(101)	(102)	(103)	(104)	(105)	(106)	(107)	(108)	(109)	(110)	(111)	(112)	(113)	(114)	(115)	(116)	(117)	(118)	(119)	(120)	(121)	(122)	(123)	(124)	(125)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)	(136)	(137)	(138)	(139)	(140)	(141)	(142)	(143)	(144)	(145)	(146)	(147)	(148)	(149)	(150)	(151)	(152)	(153)	(154)	(155)	(156)	(157)	(158)	(159)	(160)	(161)	(162)	(163)	(164)	(165)	(166)	(167)	(168)	(169)	(170)	(171)	(172)	(173)	(174)	(175)	(176)	(177)	(178)	(179)	(180)	(181)	(182)	(183)	(184)	(185)	(186)	(187)	(188)	(189)	(190)	(191)	(192)	(193)	(194)	(195)	(196)	(197)	(198)	(199)	(200)	(201)	(202)	(203)	(204)	(205)	(206)	(207)	(208)	(209)	(210)	(211)	(212)	(213)	(214)	(215)	(216)	(217)	(218)	(219)	(220)	(221)	(222)	(223)	(224)	(225)	(226)	(227)	(228)	(229)	(230)	(231)	(232)	(233)	(234)	(235)	(236)	(237)	(238)	(239)	(240)	(241)	(242)	(243)	(244)	(245)	(246)	(247)	(248)	(249)	(250)	(251)	(252)	(253)	(254)	(255)	(256)	(257)	(258)	(259)	(260)	(261)	(262)	(263)	(264)	(265)	(266)	(267)	(268)	(269)	(270)	(271)	(272)	(273)	(274)	(275)	(276)	(277)	(278)	(279)	(280)	(281)	(282)	(283)	(284)	(285)	(286)	(287)	(288)	(289)	(290)	(291)	(292)	(293)	(294)	(295)	(296)	(297)	(298)	(299)	(300)	(301)	(302)	(303)	(304)	(305)	(306)	(307)	(308)	(309)	(310)	(311)	(312)	(313)	(314)	(315)	(316)	(317)	(318)	(319)	(320)	(321)	(322)	(323)	(324)	(325)	(326)	(327)	(328)	(329)	(330)	(331)	(332)	(333)	(334)	(335)	(336)	(337)	(338)	(339)	(340)	(341)	(342)	(343)	(344)	(345)	(346)	(347)	(348)	(349)	(350)	(351)	(352)	(353)	(354)	(355)	(356)	(357)	(358)	(359)	(360)	(361)	(362)	(363)	(364)	(365)	(366)	(367)	(368)	(369)	(370)	(371)	(372)	(373)	(374)	(375)	(376)	(377)	(378)	(379)	(380)	(381)	(382)	(383)	(384)	(385)	(386)	(387)	(388)	(389)	(390)	(391)	(392)	(393)	(394)	(395)	(396)	(397)	(398)	(399)	(400)	(401)	(402)	(403)	(404)	(405)	(406)	(407)	(408)	(409)	(410)	(411)	(412)	(413)	(414)	(415)	(416)	(417)	(418)	(419)	(420)	(421)	(422)	(423)	(424)	(425)	(426)	(427)	(428)	(429)	(430)	(431)	(432)	(433)	(434)	(435)	(436)	(437)	(438)	(439)	(440)	(441)	(442)	(443)	(444)	(445)	(446)	(447)	(448)	(449)	(450)	(451)	(452)	(453)	(454)	(455)	(456)	(457)	(458)	(459)	(460)	(461)	(462)	(463)	(464)	(465)	(466)	(467)	(468)	(469)	(470)	(471)	(472)	(473)	(474)	(475)	(476)	(477)	(478)	(479)	(480)	(481)	(482)	(483)	(484)	(485)	(486)	(487)	(488)	(489)	(490)	(491)	(492)	(493)	(494)	(495)	(496)	(497)	(498)	(499)	(500)	(501)	(502)	(503)	(504)	(505)	(506)	(507)	(508)	(509)	(510)	(511)	(512)	(513)	(514)	(515)	(516)	(517)	(518)	(519)	(520)	(521)	(522)	(523)	(52
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	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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SE	01	50.6	54.9	72.1	78.1	79.9	85.3	89.9	92.0	95.9	97.1	97.7	98.6	99.2	99.6
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TOTAL NUMBER OF OBSERVATIONS: 3149

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39	39	39	39
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436

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY .
PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0900-1100

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY .
PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0900-1100

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NO	CEIL	16.3	16.8	23.6	27.3	28.0	29.7	32.1	32.6	34.5	34
		16.3	16.8	23.6	27.3	28.0	29.7	32.1	32.6	34.5	34

NO	CEIL	16.3	16.8	23.6	27.3	28.0	29.7	32.1	32.6	34.5	34
		16.3	16.8	23.6	27.3	28.0	29.7	32.1	32.6	34.5	34

Year	1982	1987	26.8	31.7	32.5	34.6	37.4	37.9	39.7
GE 190301	18.2	18.7	26.8	31.7	32.5	34.6	37.4	37.9	39.7
GE 160001	18.2	18.7	26.8	31.7	32.5	34.6	37.4	37.9	39.7

Year	1982	1987	26.8	31.7	32.5	34.6	37.4	37.9	39.7
GE 190301	18.2	18.7	26.8	31.7	32.5	34.6	37.4	37.9	39.7
GE 160001	18.2	18.7	26.8	31.7	32.5	34.6	37.4	37.9	39.7

1974	20.0	28.5	33.5	34.5	36.5	39.4	39.9	41.8
12050								

		197.4	20.0	28.5	33.5	34.5	36.5	39.4	39.9	41.8	41
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GE 8000	22.4	23.3	33.4	39.2	40.2	43.1	46.5	47.2	49.4	49
GE 7000	23.6	24.4	34.8	40.7	41.8	45.2	48.9	49.4	52.0	52
GE 6000	24.8	25.6	36.0	41.9	43.0	46.4	50.1	50.6	53.2	53
GE 5000	26.0	26.8	37.2	43.1	44.2	47.6	51.3	51.8	54.4	54
GE 4000	27.2	28.0	38.4	44.3	45.4	48.8	52.5	53.0	55.6	55
GE 3000	28.4	29.2	39.6	45.5	46.6	50.0	53.7	54.2	56.8	56
GE 2000	29.6	30.4	40.8	46.7	47.8	51.2	54.9	55.4	58.0	58
GE 1000	30.8	31.6	42.0	47.9	49.0	52.4	56.1	56.6	59.2	59
GE 0000	32.0	32.8	43.2	49.1	50.2	53.6	57.3	57.8	60.4	60

GE 8000	22.4	23.3	33.4	39.2	40.2	43.1	46.5	47.2	49.4	49
GE 7000	23.6	24.4	34.8	40.7	41.8	45.2	48.9	49.4	52.0	52
GE 6000	24.8	25.6	36.0	41.9	43.0	46.4	50.1	50.6	53.2	53
GE 5000	26.0	26.8	37.2	43.1	44.2	47.6	51.3	51.8	54.4	54
GE 4000	27.2	28.0	38.4	44.3	45.4	48.8	52.5	53.0	55.6	55
GE 3000	28.4	29.2	39.6	45.5	46.6	50.0	53.7	54.2	56.8	56
GE 2000	29.6	30.4	40.8	46.7	47.8	51.2	54.9	55.4	58.0	58
GE 1000	30.8	31.6	42.0	47.9	49.0	52.4	56.1	56.6	59.2	59
GE 0000	32.0	32.8	43.2	49.1	50.2	53.6	57.3	57.8	60.4	60

GE	50001	25.0	26.0	37.4	43.6	44.7	48.6	52.3	53.0	55.3
GE	50001	25.0	26.0	37.4	43.6	44.7	48.6	52.3	53.0	55.3

GE	50001	25.0	26.0	37.4	43.6	44.7	48.6	52.3	53.0	55.3
GE	50001	25.0	26.0	37.4	43.6	44.7	48.6	52.3	53.0	55.3

GE 3500	30.4	32.1	45.0	52.5	53.7	57.7	61.6	62.6	65.0	65
GE 3030	24.3	32.5	50.0	50.3	50.4	55.3	58.1	58.1	55.8	57

GE 3500	30.4	32.1	45.0	52.5	53.7	57.7	61.6	62.6	65.0	65
GE 3030	24.3	32.5	50.0	50.3	50.4	55.3	58.1	58.1	55.8	57

GE	250G	35.7	38.4	63.9	65.0	69.9	74.0	75.0	77.9
GE	200I	38.2	40.9	58.1	68.6	69.9	80.8	82.0	84.9
GE	200I	38.2	40.9	58.1	68.6	69.9	80.8	82.0	84.9

[illegible]

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
6E	12001	39.9	42.8	60.8	72.2	73.5	79.5	84.6	86.2	89.5	90																																																																																											
6E	12001	39.9	42.8	60.8	72.2	73.5	79.5	84.6	86.2	89.5	90																																																																																											

6E	12001	39.9	42.8	60.8	72.2	73.5	79.5	84.6	86.2	89.5	90
6E	12001	39.9	42.8	60.8	72.2	73.5	79.5	84.6	86.2	89.5	90

6E	920	40.2	43.3	62.5	74.5	76.4	82.5	87.9	89.6	93.2	94
6E	830	40.4	43.5	62.8	74.7	76.6	82.7	88.1	89.8	93.5	94

6E	920	40.2	43.3	62.5	74.5	76.4	82.5	87.9	89.6	93.2	94
6E	830	40.4	43.5	62.8	74.7	76.6	82.7	88.1	89.8	93.5	94

[illegible][illegible]

GE	300	43.4	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96
GE	200	43.4	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96

GE	300	43.4	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96
GE	200	43.4	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96

GE	C	40.4	43.5	63.3	74.9	75.7	83.0	89.1	91.0	95.6	96
GE	C	40.4	43.5	63.3	74.9	75.7	83.0	89.1	91.0	95.6	96

GE	C	40.4	43.5	63.3	74.9	75.7	83.0	89.1	91.0	95.6	96
GE	C	40.4	43.5	63.3	74.9	75.7	83.0	89.1	91.0	95.6	96

TOTAL NUMBER OF OBSERVATIONS: 599

TOTAL NUMBER OF OBSERVATIONS: 599

Figure 1

100

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 77-06
MONTH: FEB HOURS(LST): 1200-1400

STATION NUMBER: 106420 STATION NAME: HANAU AM GERHARTY

MEMPHIS OF RECORD 77-66

MONTH: FEB HOURS (LST): 1200-1400

.....
CEILING

VISIBILITY IN HUNDREDS OF METERS

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

28.7	30.1	39.7	45.3	45.5	47.4	47.9	46.0	49.1	49.1	49.2	49.2	49.2
28.7	30.1	39.7	45.3	45.5	47.4	47.9	46.0	49.1	49.1	49.2	49.2	49.2

[illegible][illegible][illegible][illegible][illegible]

Year	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Population	45.6	47.1	63.1	70.4	71.3	74.0	74.5	74.9	76.1	76.1	76.2	76.4	76.4	76.4	76.4

[illegible][illegible][illegible]

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

100

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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COLE
ISUZU MARCUSO JO KENNON SWIND

1. The first step in the process of creating a new product is to identify a market need. This involves conducting market research to understand the preferences and behaviors of potential customers. Once a need is identified, the next step is to develop a concept that addresses this need. This concept should be unique, valuable, and feasible. The third step is to create a prototype, which is a preliminary model of the product. This allows the team to test the concept and make necessary adjustments. The fourth step is to conduct a feasibility study, which assesses the technical, financial, and operational viability of the product. Finally, the product is launched into the market, and the team monitors its performance and customer feedback to make further improvements.

22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051

Figure 11

姓名	性别	年龄	民族	籍贯	职业	文化程度	政治面貌	婚姻状况	子女情况	健康状况	其他
王德胜	男	45	汉族	山东烟台	教师	大学	中共党员	已婚	2子1女	良好	
李秀英	女	38	汉族	河南郑州	护士	中专	中共党员	已婚	1子1女	良好	
张国强	男	52	汉族	江苏苏州	工程师	硕士	中共党员	已婚	2子1女	良好	
刘小红	女	41	汉族	四川成都	医生	大学	中共党员	已婚	1子1女	良好	
陈为民	男	35	汉族	广东广州	程序员	本科	中共党员	已婚	2子1女	良好	
赵子龙	男	28	汉族	北京海淀	学生	高中	共青团员	未婚	无	良好	
周美兰	女	33	汉族	浙江杭州	会计	大专	中共党员	已婚	1子1女	良好	
吴大伟	男	48	汉族	湖南长沙	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	36	汉族	湖北武汉	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	55	汉族	安徽合肥	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	29	汉族	福建厦门	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	42	汉族	江西九江	农民	初中	中共党员	已婚	2子1女	良好	
周美玲	女	37	汉族	广西桂林	护士	中专	中共党员	已婚	1子1女	良好	
吴大强	男	50	汉族	山西太原	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	34	汉族	云南昆明	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	46	汉族	贵州贵阳	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	31	汉族	海南三亚	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	43	汉族	宁夏银川	农民	初中	中共党员	已婚	2子1女	良好	
周美玲	女	38	汉族	青海西宁	护士	中专	中共党员	已婚	1子1女	良好	
吴大强	男	51	汉族	新疆乌鲁木齐	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	35	汉族	内蒙古呼和浩特	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	47	汉族	吉林长春	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	32	汉族	辽宁沈阳	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	44	汉族	黑龙江哈尔滨	农民	初中	中共党员	已婚	2子1女	良好	
周美玲	女	39	汉族	河北石家庄	护士	中专	中共党员	已婚	1子1女	良好	
吴大强	男	52	汉族	天津塘沽	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	36	汉族	山东青岛	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	48	汉族	河南郑州	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	33	汉族	广东广州	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	45	汉族	江苏苏州	农民	初中	中共党员	已婚	2子1女	良好	
周美玲	女	40	汉族	浙江杭州	护士	中专	中共党员	已婚	1子1女	良好	
吴大强	男	53	汉族	湖南长沙	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	37	汉族	湖北武汉	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	49	汉族	安徽合肥	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	34	汉族	福建厦门	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	46	汉族	江西九江	农民	初中	中共党员	已婚	2子1女	良好	
周美玲	女	41	汉族	广西桂林	护士	中专	中共党员	已婚	1子1女	良好	
吴大强	男	54	汉族	山西太原	干部	大学	中共党员	已婚	2子1女	良好	
孙丽娟	女	38	汉族	云南昆明	教师	本科	中共党员	已婚	1子1女	良好	
郑为民	男	50	汉族	贵州贵阳	工人	小学	中共党员	已婚	3子1女	良好	
马小芳	女	35	汉族	海南三亚	文员	大专	中共党员	已婚	1子1女	良好	
徐国强	男	47	汉族	宁夏银川	农民	初中	中共党员				

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICEZNA

PERCENTAGE FREQUENCY OF OCCURRENCE OF CHILINO VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 180420 STATION NAME: HANAU AAF GERMANY

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

CEILING
IN VISIBILITY IN HUNDREDS OF METERS

FEET 160 90 55 0 60 40 32 24 20 16 12 10 8 6 4 0

NO CEIL 24.6 25.6 33.1 35.0 35.3 36.7 36.7 37.4 37.7 37.7 37.7 37.7 37.7 37.7 37.7 37.7

GE 2000 27.3 28.5 37.7 39.7 40.1 41.0 41.8 42.4 42.8 42.8 42.8 42.8 42.8 42.8 42.8 42.8

GE 1800 28.2 29.4 39.4 41.6 42.1 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3

GE 1600 28.5 29.7 39.9 42.1 42.6 44.8 44.8 44.8 44.8 44.8 44.8 44.8 44.8 44.8 44.8 44.8

GE 1400 29.2 30.4 40.7 43.0 43.5 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7

GE 1200 30.2 31.4 42.3 44.5 45.0 47.4 47.4 47.4 47.4 47.4 47.4 47.4 47.4 47.4 47.4 47.4

GE 900 30.7 31.9 43.5 45.7 46.2 48.6 48.6 48.6 48.6 48.6 48.6 48.6 48.6 48.6 48.6 48.6

GE 800 32.0 34.0 46.0 48.2 49.2 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6

GE 700 33.6 34.8 48.4 50.8 51.0 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2

GE 600 33.0 35.0 48.7 51.1 52.1 54.5 54.5 54.5 54.5 54.5 54.5 54.5 54.5 54.5 54.5 54.5

GE 500 35.1 36.5 51.4 54.0 55.2 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6

GE 450 36.2 37.7 53.1 55.7 56.9 59.3 59.3 59.3 59.3 59.3 59.3 59.3 59.3 59.3 59.3 59.3

GE 400 41.9 43.8 60.1 63.8 65.2 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6

GE 350 45.0 47.0 64.0 67.7 69.1 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6

GE 300 49.1 51.4 70.1 74.7 76.4 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1

GE 250 51.4 53.8 73.0 78.3 80.0 82.7 82.7 82.7 82.7 82.7 82.7 82.7 82.7 82.7 82.7 82.7

GE 200 53.5 56.0 76.7 83.4 85.1 88.1 88.1 88.1 88.1 88.1 88.1 88.1 88.1 88.1 88.1 88.1

GE 180 53.0 56.5 77.4 84.3 85.7 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0

GE 150 54.2 57.0 78.6 85.2 86.9 89.2 89.2 89.2 89.2 89.2 89.2 89.2 89.2 89.2 89.2 89.2

GE 120 54.2 57.0 80.0 86.6 88.3 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7

GE 100 54.5 57.4 80.6 87.3 89.0 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4

GE 90 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 80 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 70 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 60 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 50 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 40 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 30 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 20 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 10 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

GE 0 54.5 57.4 80.6 87.4 89.1 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

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

CEILINGS

VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	90	60	48	40	32	24	20	16	12	10	8	6	4	0
FEET	160	90	90	90	60	48	40	32	24	20	16	12	10	8	6	4	0

NO CEIL	23.0	24.3	32.9	35.9	37.0	39.4	40.5	40.5	40.5	40.5	40.5	41.3	41.3	41.3	41.3	41.3	41.3
GE 20000	25.8	27.3	30.5	41.4	43.1	45.7	46.8	46.8	46.8	47.2	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 10000	25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 16000	25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 14000	25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 12000	25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 10000	27.3	28.0	40.9	43.9	45.5	48.1	49.3	49.3	49.3	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 9000	27.3	28.8	41.4	44.4	46.1	48.7	49.8	49.8	49.8	50.6	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 8000	29.0	30.5	43.7	46.8	48.7	51.3	52.6	52.6	52.6	53.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 7000	29.7	31.2	44.6	47.8	49.6	52.2	53.5	53.5	53.5	54.5	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 6000	29.7	31.2	44.8	48.0	49.8	52.4	53.7	53.7	53.7	54.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 5000	30.9	32.3	46.8	50.0	51.9	54.5	56.3	56.3	56.3	57.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 4500	32.0	33.6	50.0	53.9	55.8	58.4	60.2	60.2	60.2	61.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 4000	38.1	39.8	57.2	62.5	64.9	67.7	69.9	69.9	69.9	71.4	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 3500	40.3	42.2	60.4	65.8	68.4	71.2	73.6	73.6	73.6	75.3	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 3000	44.6	46.5	68.0	73.3	77.0	80.1	82.5	82.5	82.5	84.2	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 2500	45.5	47.6	70.6	77.1	80.3	83.5	85.9	85.9	85.9	87.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 2000	46.5	48.5	72.3	78.9	82.7	86.4	89.0	89.0	89.0	91.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	47.0	49.1	72.9	79.4	83.3	87.2	89.8	89.8	89.8	92.2	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 1500	47.0	49.3	73.4	79.9	83.8	88.1	90.9	90.9	90.9	93.5	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 1200	47.4	49.6	75.5	82.2	86.1	90.5	93.7	93.7	93.7	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 900	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 800	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 700	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 600	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 500	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 400	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 300	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 200	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 100	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 60	47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	94.1	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6

TOTAL NUMBER OF OBSERVATIONS: 538

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 106423 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 79-86

MONTH: FEB HOURS(IST): 2100-2300

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	40	32	24	20	16	12	10	8	4	0
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NO CEIL	25.1	25.7	36.3	44.1	46.9	48.0	51.4	51.4	52.5	54.2	54.2	54.2	54.2	54.2	54.2
GE 2000	25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	59.8	59.8	59.8	59.8	59.8	59.8
GE 1800	25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 1600	25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 1400	25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 1200	25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 1000	26.8	27.4	42.5	50.8	53.6	54.7	58.1	58.1	59.2	61.5	61.5	61.5	61.5	61.5	61.5
GE 900	26.8	27.4	43.0	51.4	54.2	55.3	58.7	58.7	59.8	62.0	62.0	62.0	62.0	62.0	62.0
GE 800	27.9	28.5	45.3	54.7	57.5	58.7	62.0	62.0	63.1	65.4	65.4	65.4	65.4	65.4	65.4
GE 700	29.1	29.6	46.4	55.9	58.7	59.8	63.1	63.1	64.2	66.5	66.5	66.5	66.5	66.5	66.5
GE 600	29.1	29.6	46.4	55.9	58.7	59.8	63.1	63.1	64.2	66.5	66.5	66.5	66.5	66.5	66.5
GE 500	30.2	30.7	49.7	59.2	62.6	63.7	67.6	67.6	69.3	71.5	71.5	71.5	71.5	71.5	71.5
GE 400	31.8	32.4	51.4	60.9	64.2	65.4	69.3	69.3	70.9	73.2	73.2	73.2	73.2	73.2	73.2
GE 300	34.6	35.8	54.7	65.4	70.4	71.5	75.4	75.4	77.1	79.3	79.3	79.3	79.3	79.3	79.3
GE 200	35.2	36.3	56.4	67.0	73.2	74.3	79.3	79.3	82.1	84.4	84.4	84.4	84.4	84.4	84.4
GE 100	35.8	36.9	60.3	70.9	79.3	80.4	85.5	85.5	88.3	90.5	90.5	90.5	90.5	90.5	90.5
GE 2500	35.9	38.0	62.5	74.3	83.8	84.9	89.9	89.9	92.7	95.0	95.0	95.0	95.0	95.0	95.0
GE 2000	36.9	38.0	63.7	75.4	84.9	86.0	91.1	91.1	93.9	96.1	96.1	96.1	96.1	96.1	96.1
GE 1800	36.9	38.0	63.7	75.4	84.9	86.0	91.1	91.1	93.9	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500	36.9	38.5	64.8	76.5	86.0	87.2	92.2	92.2	95.0	97.2	97.2	97.2	97.2	97.2	97.2
GE 1200	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 1000	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 900	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 700	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 600	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 400	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 300	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 200	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 100	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9
GE 0	36.9	38.5	65.4	77.1	86.5	88.3	93.9	93.9	96.6	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS: 179

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: MAR HOURS(LST): 1200-1400

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	51	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1060	1065	1070	1075	1080	1085	1090	1095	1100	1105	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155	1160	1165	1170	1175	1180	1185	1190	1195	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355	1360	1365	1370	1375	1380	1385	1390	1395	1400	1405	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460	1465	1470	1475	1480	1485	1490	1495	1500	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1560	1565	1570	1575	1580	1585	1590	1595	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	1660	1665	1670	1675	1680	1685	1690	1695	1700	1705	1710	1715	1720	1725	1730	1735	1740	1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1870	1875	1880	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070	2075	2080	2085	2090	2095	2100	2105	2110	2115	2120	2125	2130	2135	2140	2145	2150	2155	2160	2165	2170	2175	2180	2185	2190	2195	2200	2205	2210	2215	2220	2225	2230	2235	2240	2245	2250	2255	2260	2265	2270	2275	2280	2285	2290	2295	2300	2305	2310	2315	2320	2325	2330	2335	2340	2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2495	2500	2505	2510	2515	2520	2525	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580	2585	2590	2595	2600	2605	2610	2615	2620	2625	2630	2635	2640	2645	2650	2655	2660	2665	2670	2675	2680	2685	2690	2695	2700	2705	2710	2715	2720	2725	2730	2735	2740	2745	2750	2755	2760	2765	2770	2775	2780	2785	2790	2795	2800	2805	2810	2815	2820	2825	2830	2835	2840	2845	2850	2855	2860	2865	2870	2875	2880	2885	2890	2895	2900	2905	2910	2915	2920	2925	2930	2935	2940	2945	2950	2955	2960	2965	2970	2975	2980	2985	2990	2995	3000	3005	3010	3015	3020	3025	3030	3035	3040	3045	3050	3055	3060	3065	3070	3075	3080	3085	3090	3095	3100	3105	3110	3115	3120	3125	3130	3135	3140	3145	3150	3155	3160	3165	3170	3175	3180	3185	3190	3195	3200	3205	3210	3215	3220	3225	3230	3235	3240	3245	3250	3255	3260	3265	3270	3275	3280	3285	3290	3295	3300	3305	3310	3315	3320	3325	3330	3335	3340	3345	3350	3355	3360	3365	3370	3375	3380	3385	3390	3395	3400	3405	3410	3415	3420	3425	3430	3435	3440	3445	3450	3455	3460	3465	3470	3475	3480	3485	3490	3495	3500	3505	3510	3515	3520	3525	3530	3535	3540	3545	3550	3555	3560	3565	3570	3575	3580	3585	3590	3595	3600	3605	3610	3615	3620	3625	3630	3635	3640	3645	3650	3655	3660	3665	3670	3675	3680	3685	3690	3695	3700	3705	3710	3715	3720	3725	3730	3735	3740	3745	3750	3755	3760	3765	3770	3775	3780	3785	3790	3795	3800	3805	3810	3815	3820	3825	3830	3835	3840	3845	3850	3855	3860	3865	3870	3875	3880	3885	3890	3895	3900	3905	3910	3915	3920	3925	3930	3935	3940	3945	3950	3955	3960	3965	3970	3975	3980	3985	3990	3995	4000	4005	4010	4015	4020	4025	4030	4035	4040	4045	4050	4055	4060	4065	4070	4075	4080	4085	4090	4095	4100	4105	4110	4115	4120	4125	4130	4135	4140	4145	4150	4155	4160	4165	4170	4175	4180	4185	4190	4195	4200	4205	4210	4215	4220	4225	4230	4235	4240	4245	4250	4255	4260	4265	4270	4275	4280	4285	4290	4295	4300	4305	4310	4315	4320	4325	4330	4335	4340	4345	4350	4355	4360	4365	4370	4375	4380	4385	4390	4395	4400	4405	4410	4415	4420	4425	4430	4435	4440	4445	4450	4455	4460	4465	4470	4475	4480	4485	4490	4495	4500	4505	4510	4515	4520	4525	4530	4535	4540	4545	4550	4555	4560	4565	4570	4575	4580	4585	4590	4595	4600	4605	4610	4615	4620	4625	4630	4635	4640	4645	4650	4655	4660	4665	4670	4675	4680	4685	4690	4695	4700	4705	4710	4715	4720	4725	4730	4735	4740	4745	4750	4755	4760	4765	4770	4775	4780	4785	4790	4795	4800	4805	4810	4815	4820	4825	4830	4835	4840	4845	4850	4855	4860	4865	4870	4875	4880	4885	4890	4895	4900	4905	4910	4915	4920	4925	4930	4935	4940	4945	4950	4955	4960	4965	4970	4975	4980	4985	4990	4995	5000	5005	5010	5015	5020	5025	5030	5035	5040	5045	5050	5055	5060	5065	5070	5075	5080	5085	5090	5095	5100	5105	5110	5115	5120	5125	5130	5135	5140	5145	5150	5155	5160	5165	5170	5175	5180	5185	5190	5195	5200	5205	5210	5215	5220	5225	5230	5235	5240	52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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAWAII AAF GERMANY PERIOD OF RECORD: 77-86 MONTH: MAR HOURS(LST): 1500-1700

		VISIBILITY IN HUNDREDS OF METERS																	
		GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		160	90	80	60	40	32	24	20	16	12	10	8	5	4	3	2	1	0
NO CEIL		23.1	24.5	29.2	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
GE 20000		28.9	30.5	35.8	37.3	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 18000		29.2	30.8	36.3	37.7	37.9	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		29.2	30.8	36.3	37.7	37.9	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		29.7	31.3	36.7	38.2	38.3	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 12000		30.4	32.0	37.9	39.4	39.5	39.6	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 10000		32.6	34.2	40.5	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 9000		33.6	35.2	42.3	44.1	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 8000		37.3	38.9	46.4	48.5	48.6	48.8	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 7000		38.0	39.6	47.6	49.9	50.1	50.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 6000		38.3	39.9	48.2	51.3	51.1	51.2	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 5000		41.3	43.5	52.0	55.2	55.4	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 4500		44.1	46.3	54.9	58.1	58.4	58.6	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 4000		50.8	53.3	63.0	66.2	66.5	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 3500		56.5	59.0	70.0	73.3	73.6	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 3000		64.5	67.1	79.7	83.6	83.8	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2500		67.3	70.0	82.7	86.5	87.2	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2000		73.0	75.9	88.8	92.7	93.4	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1800		73.1	76.1	89.0	93.0	93.7	94.1	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		73.9	76.9	89.9	94.1	94.9	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200		74.2	77.4	90.5	94.9	95.5	96.8	97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1000		74.2	77.4	90.5	94.9	95.7	96.9	97.4	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900		74.2	77.4	90.5	94.9	95.7	97.1	97.5	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 800		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 700		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 400		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 100		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 0		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS: 681

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

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

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	25.7	26.2	31.6	33.1	33.8	35.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 2000	32.8	33.8	39.4	41.4	42.1	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1800	32.8	33.8	39.5	41.7	42.4	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 1600	32.9	34.0	39.7	41.9	42.6	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 1400	33.4	34.5	40.2	42.4	43.1	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 1200	34.1	35.1	41.2	43.4	44.1	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 1000	36.1	37.3	43.6	45.8	46.5	47.8	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 900	37.0	38.2	44.8	47.3	48.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 800	39.9	41.0	47.8	50.5	51.2	52.5	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 700	41.0	42.2	49.0	51.7	52.4	53.7	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 600	41.9	43.1	50.0	53.0	54.1	55.4	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 500	47.5	48.8	56.3	59.3	60.6	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 450	51.0	52.5	60.6	63.9	65.0	66.4	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 400	55.9	57.8	67.2	71.5	72.8	74.5	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 350	60.1	62.2	72.0	76.7	78.0	79.7	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 300	63.7	65.9	77.4	83.3	84.6	86.3	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 250	65.0	67.6	79.9	86.1	87.7	90.2	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 200	68.2	70.9	83.6	90.0	91.6	94.4	94.9	95.3	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 180	68.4	71.3	84.0	90.4	91.9	94.8	95.3	95.6	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 150	68.9	71.8	84.5	91.0	92.7	95.6	96.1	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 120	68.9	71.8	84.6	91.2	93.4	96.3	97.3	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 100	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 90	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 80	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 70	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 60	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 50	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 40	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 30	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 20	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 10	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 0	68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS: 592

VERSUS VISIBILITY

PERIOD OF RECORD: 77-78, 81-86
MONTH: MAR HOURS (LST): 2100-2300

ERS

VISIBILITY IN HUNDREDS OF FEET																		
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	GE 2	GE 1
NO CEIL	26.7	26.7	32.0	36.4	38.7	39.6	40.0	40.0	40.0	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 20000	28.4	28.4	33.8	38.2	40.4	41.8	42.2	42.2	42.2	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
GE 19000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 18000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 17000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 16000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 15000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 14000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 13000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 12000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 11000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 10000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 9000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 8000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 7000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 6000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 5000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 4500	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 4000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 3500	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 3000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 2500	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 2000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1800	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1500	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1200	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1000	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 900	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 800	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 700	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 600	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 500	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 400	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 300	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 200	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 100	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 0	28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6

TOTAL NUMBER OF OBSERVATIONS:	225
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2

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32	24	20	16
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1007	1007	0007	0007	6017
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34.5	34.6	34.7	34.7	34.7
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100

43.02	43.02	43.02	43.02	43.02
47.1	47.1	47.1	47.1	47.1
47.2	47.2	47.2	47.2	47.2
47.3	47.3	47.3	47.3	47.3
47.3	47.3	47.3	47.3	47.3

52.3	52.4	52.5	52.6
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69.7	69.8	69.9	70.0	70.0
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[illegible]

96.3	96.5	96.7	96.8	96.8	96.8
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91.3	91.3	91.6	91.8	91.7	91.7
97.7	97.9	98.2	98.3	98.4	98.5

	98.7	98.9	99.2	99.5	99.6	99.7
98.7	98.7	98.9	99.2	99.5	99.6	99.7
98.8	98.8	99.0	99.3	99.6	99.7	99.8
98.9	98.9	99.1	99.4	99.7	99.8	99.9
99.0	99.0	99.2	99.5	99.8	99.9	100.0
99.1	99.1	99.3	99.6	99.9	100.0	
99.2	99.2	99.4	99.7	100.0		
99.3	99.3	99.5	99.8			
99.4	99.4	99.6	99.9			
99.5	99.5	99.7	100.0			
99.6	99.6	99.8				
99.7	99.7	99.9				
99.8	99.8					
99.9	99.9					
100.0	100.0					

00.7	00.9	00.2	00.5	00.7	100.0
00.7	00.9	00.2	00.5	00.7	100.0

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 0900-1100

CEILING

IN FT 160 140 120 100 80 60 40 32 24 20 16 12 10 8 5 4 0

NO CEIL	1	28.1	29.3	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.4	35.4	35.6	35.6	35.6	35.6
GE 20000	32.4	33.6	39.9	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.6	40.8	40.8	40.8	40.8
GE 18000	33.1	34.4	40.6	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.6	41.6	41.6	41.6
GE 16000	33.1	34.4	40.6	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.6	41.6	41.6	41.6
GE 14000	33.3	34.5	40.8	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.6	41.6	41.7	41.7	41.7	41.7
GE 12000	34.4	35.7	42.3	42.9	42.9	42.9	42.9	42.9	42.9	42.9	43.1	43.1	43.3	43.3	43.3	43.3
GE 10000	36.2	37.6	45.1	45.7	45.7	45.7	45.7	45.7	45.7	45.7	46.2	46.2	46.3	46.3	46.3	46.3
GE 9000	37.6	39.0	46.8	47.4	47.4	47.4	47.4	47.4	47.4	47.4	48.0	48.0	48.3	48.3	48.3	48.3
GE 8000	39.7	42.0	51.7	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	53.2	53.2	53.2	53.2
GE 7000	41.7	44.3	54.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2	56.0	56.0	56.3	56.3	56.3	56.3
GE 6000	41.9	44.6	54.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.3	56.3	56.6	56.6	56.6	56.6
GE 5000	44.2	47.2	58.0	58.6	58.6	58.6	58.6	58.6	58.6	58.6	59.5	59.5	59.8	59.8	59.8	59.8
GE 4500	45.9	48.9	60.0	60.6	60.6	60.6	60.6	60.6	60.6	60.6	61.5	61.5	61.8	61.8	61.8	61.8
GE 4000	49.7	52.9	64.4	65.2	65.2	65.2	65.2	65.2	65.2	65.2	66.1	66.1	66.4	66.4	66.4	66.4
GE 3500	52.8	56.1	68.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.1	70.1	71.3	71.3	71.3	71.3
GE 3000	59.4	63.2	76.7	78.4	78.4	78.4	78.4	78.4	78.4	78.4	79.8	79.8	80.1	80.1	80.1	80.1
GE 2500	61.7	65.5	79.1	81.0	81.0	81.0	81.0	81.0	81.0	81.0	82.5	82.5	82.8	82.8	82.8	82.8
GE 2000	65.2	69.6	83.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	87.9	87.9	88.2	88.2	88.2	88.2
GE 1800	65.5	70.1	84.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	88.7	88.7	89.0	89.0	89.0	89.0
GE 1500	66.9	71.6	86.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	91.9	91.9	92.2	92.2	92.2	92.2
GE 1200	67.8	73.2	89.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	94.9	94.9	95.2	95.2	95.2	95.2
GE 1000	67.8	73.3	89.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	95.4	95.4	95.7	95.7	95.7	95.7
GE 900	67.8	73.3	89.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	95.7	95.7	96.0	96.0	96.0	96.0
GE 800	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	95.9	95.9	96.3	96.3	96.3	96.3
GE 700	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	96.2	96.2	96.9	96.9	96.9	96.9
GE 600	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	96.4	96.4	97.1	97.1	97.1	97.1
GE 500	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	96.6	96.6	97.1	97.1	97.1	97.1
GE 400	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	96.9	96.9	97.4	97.4	97.4	97.4
GE 300	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	97.5	97.5	97.5	97.5	97.5	97.5
GE 200	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	97.5	97.5	97.5	97.5	97.5	97.5
GE 100	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	97.5	97.5	97.5	97.5	97.5	97.5
GE 0	67.8	73.3	89.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	97.5	97.5	97.5	97.5	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS: 652

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

STATION NUMBER: 105429 STATION NAME: HAWAU AAF GERMANY

.....

CEILING

.....

VISIBILITY IN HUNDREDS OF METERS

.....

IN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

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05.2	87.0	96.3	97.3	97.7	98.6	98.9	99.2	99.2	99.2
06E	1000								

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81																			

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1. The first part of the document is a title page. It contains the title of the document, the author's name, and the date of the document. The title is "The First Part of the Document". The author's name is "John Doe". The date is "12/12/2023".

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GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-80
MONTH: APR HOURS (LST): 1800-2000

CEILING VISIBILITY IN HUNDREDS OF METERS

FEET	160	140	120	100	80	60	48	40	32	24	20	16	12	10	8	6	4	0
NO CEIL	35.6	36.3	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	39.2
GE 20000	44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 18000	44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 16000	44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 14000	44.9	46.0	49.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 12000	45.1	46.2	49.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
GE 10000	49.3	50.4	54.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 9000	50.4	51.4	55.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 8000	54.5	55.8	60.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 7000	57.4	58.8	63.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 6000	59.7	61.2	66.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 5000	63.5	65.0	70.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 4000	68.1	69.5	74.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 3500	75.6	77.3	82.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 3000	79.2	81.0	86.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 2500	82.5	84.5	91.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 2000	83.6	85.6	92.4	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1800	84.8	87.0	94.2	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1500	85.0	87.2	94.4	96.4	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1200	85.0	87.2	95.1	97.7	98.0	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 1000	85.0	87.2	95.3	97.8	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 900	85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 800	85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 600	85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	85.2	87.4	95.7	98.4	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 400	85.2	87.4	95.7	98.4	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 300	85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 200	85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 100	85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

GE 01 85.2 87.4 95.7 98.4 98.9 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5

TOTAL NUMBER OF OBSERVATIONS: 554

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 A2R WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

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

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	160	140	120	100	80	60	48	40	32	24	20	16	12	10	8	5	4
NO CEYL	31.5	32.3	35.7	36.5	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.1	37.1	37.2
GE 20000	38.1	39.1	43.2	44.2	44.4	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	45.0	45.0	45.1
GE 18000	38.5	39.4	43.6	44.6	44.8	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.4	45.4	45.5
GE 16000	38.5	39.4	43.6	44.6	44.8	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.4	45.4	45.5
GE 14000	38.8	39.7	43.9	44.9	45.1	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.8	45.8	45.8
GE 12000	39.5	40.5	44.8	45.8	46.0	46.4	46.4	46.4	46.5	46.5	46.7	46.7	46.7	46.7	46.9	46.9	46.9
GE 10000	42.0	43.0	48.0	49.1	49.3	49.8	49.9	49.9	49.9	50.1	50.1	50.1	50.1	50.1	50.3	50.3	50.3
GE 9000	43.0	44.1	49.4	50.4	50.6	51.2	51.3	51.3	51.3	51.5	51.5	51.5	51.6	51.6	51.7	51.7	51.7
GE 8000	46.5	48.0	54.1	55.2	55.5	56.2	56.4	56.4	56.4	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.9
GE 7000	48.6	50.2	56.9	58.2	58.4	59.3	59.5	59.6	59.6	59.8	59.8	59.8	59.9	59.9	60.0	60.0	60.0
GE 6000	49.4	51.1	57.9	59.1	59.3	60.2	60.4	60.5	60.5	60.7	60.7	60.7	60.8	60.8	60.9	60.9	60.9
GE 5000	52.3	54.2	61.2	62.4	62.7	63.6	63.9	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3
GE 4000	55.0	56.9	64.2	65.5	65.7	66.7	67.0	67.0	67.2	67.2	67.3	67.3	67.3	67.3	67.4	67.4	67.4
GE 3500	60.0	61.9	69.7	71.1	71.5	72.5	72.7	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.3
GE 3000	64.7	66.8	75.1	76.7	77.1	78.1	78.4	78.4	78.4	78.7	78.7	78.7	78.8	78.8	78.9	78.9	78.9
GE 2500	70.5	72.9	82.0	83.9	84.4	85.5	85.8	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.4
GE 2000	72.6	75.0	84.4	86.4	86.9	88.1	88.4	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	89.0
GE 1800	75.5	78.3	88.4	90.9	91.4	92.6	93.0	93.0	93.5	93.5	93.5	93.6	93.6	93.6	93.7	93.7	93.7
GE 1500	75.7	78.6	88.8	91.4	91.9	93.1	93.5	93.6	94.0	94.1	94.1	94.1	94.1	94.1	94.3	94.3	94.3
GE 1200	75.6	79.5	90.2	93.1	93.7	95.3	95.6	95.7	96.2	96.3	96.4	96.4	96.4	96.4	96.5	96.5	96.5
GE 1000	77.0	80.0	91.1	94.1	94.9	96.6	96.9	97.0	97.6	97.7	97.8	97.8	97.8	97.8	97.9	97.9	97.9
GE 900	77.0	80.2	91.4	94.5	95.3	97.0	97.4	97.4	98.0	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.4
GE 800	77.0	80.2	91.5	94.6	95.4	97.2	97.6	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6
GE 700	77.0	80.2	91.5	94.6	95.5	97.4	97.9	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.8
GE 600	77.0	80.2	91.5	94.7	95.6	97.6	98.1	98.2	98.9	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.3
GE 500	77.0	80.2	91.6	94.8	95.6	97.7	98.2	98.3	99.0	99.2	99.3	99.3	99.3	99.3	99.5	99.6	99.6
GE 400	77.0	80.2	91.6	94.8	95.7	97.7	98.3	98.4	99.2	99.4	99.5	99.5	99.5	99.5	99.7	99.8	99.8
GE 300	77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.6	99.6	99.6	99.9	99.9	100.0
GE 200	77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.6	99.6	99.6	99.9	99.9	100.0
GE 100	77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.6	99.6	99.6	99.9	99.9	100.0
GE 0	77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.6	99.6	99.6	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 3398

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

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

CEILING IN FEET

VISIBILITY IN HUNDREDS OF METERS

160 140 120 100 80 60 40 32 24 20 16 12 10 8 5 4 0

NO CEIL 26.3 26.4 30.2 31.3 31.5 31.9 32.1 32.1 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2

GE 20000 30.4 30.5 34.6 35.7 35.8 36.5 36.6 36.6 36.8 36.8 36.8 36.8 36.8 36.8 36.8

GE 18000 30.8 31.0 35.1 36.2 36.3 36.9 37.1 37.1 37.2 37.2 37.2 37.2 37.2 37.2 37.2

GE 16000 30.8 31.0 35.1 36.2 36.3 36.9 37.1 37.1 37.2 37.2 37.2 37.2 37.2 37.2 37.2

GE 14000 31.3 31.5 35.7 36.8 36.9 37.6 37.7 37.7 37.9 37.9 37.9 37.9 37.9 37.9 37.9

GE 12000 31.9 32.1 36.8 37.9 38.0 38.8 39.0 39.0 39.1 39.1 39.1 39.1 39.1 39.1 39.1

GE 10000 33.5 33.8 39.1 40.5 40.7 41.6 41.8 41.8 42.3 42.3 42.3 42.3 42.3 42.3 42.3

GE 9000 34.4 35.1 40.7 42.4 42.6 43.5 43.8 43.8 44.3 44.3 44.3 44.3 44.3 44.3 44.3

GE 8000 41.3 42.3 46.8 50.9 51.0 52.1 52.4 52.6 53.7 53.7 53.7 53.7 53.7 53.7 53.7

GE 7000 43.3 44.4 51.8 54.0 54.1 55.2 55.6 55.7 57.0 57.0 57.0 57.0 57.0 57.0 57.0

GE 6000 43.8 44.9 52.4 54.9 55.2 56.5 56.8 57.0 58.2 58.2 58.2 58.2 58.2 58.2 58.2

GE 5000 48.4 49.9 58.8 61.5 61.8 63.1 63.5 63.5 65.3 65.3 65.3 65.3 65.3 65.3 65.3

GE 4500 50.7 52.3 61.7 64.3 64.6 66.0 66.5 67.0 68.2 68.2 68.2 68.2 68.2 68.2 68.2

GE 4000 54.0 55.6 66.8 70.3 70.3 71.7 72.3 72.8 74.0 74.0 74.0 74.0 74.0 74.0 74.0

GE 3500 54.9 56.5 69.5 73.1 73.6 75.1 75.9 76.4 77.8 77.8 77.8 77.8 77.8 77.8 77.8

GE 3000 58.2 60.4 73.7 77.3 77.9 79.7 80.4 80.9 82.5 82.5 82.5 82.5 82.5 82.5 82.5

GE 2500 58.4 60.6 74.0 77.8 78.6 80.4 81.2 81.7 83.3 83.3 83.3 83.3 83.3 83.3 83.3

GE 2000 60.9 63.8 79.0 82.9 83.7 85.8 86.5 87.0 88.6 88.6 88.6 88.6 88.6 88.6 88.6

GE 1800 61.0 64.0 79.2 83.3 84.0 86.1 86.9 87.3 88.9 88.9 88.9 88.9 88.9 88.9 88.9

GE 1500 62.0 65.4 80.6 84.8 85.6 87.8 88.6 89.2 90.8 90.8 90.8 90.8 90.8 90.8 90.8

GE 1200 62.4 65.9 82.2 86.9 87.6 90.3 91.1 91.7 93.3 93.3 93.3 93.3 93.3 93.3 93.3

GE 1000 62.4 65.9 82.9 88.1 88.9 91.7 92.8 93.4 95.1 95.1 95.1 95.1 95.1 95.1 95.1

GE 900 62.6 66.0 83.1 88.4 89.2 92.0 93.1 93.7 95.5 95.5 95.5 95.5 95.5 95.5 95.5

GE 800 62.6 66.0 83.1 88.6 89.4 92.2 93.3 93.9 95.6 95.6 95.6 95.6 95.6 95.6 95.6

GE 700 62.6 66.0 83.3 89.3 89.8 92.8 93.9 94.5 96.4 96.4 96.4 96.4 96.4 96.4 96.4

GE 600 62.6 66.0 83.4 89.4 89.4 93.3 94.4 95.0 96.9 96.9 96.9 96.9 96.9 96.9 96.9

GE 500 62.6 66.0 83.7 90.0 90.9 93.9 95.1 95.8 97.7 97.7 97.7 97.7 97.7 97.7 97.7

GE 400 62.6 66.0 83.7 90.0 90.9 93.9 95.3 95.9 98.0 98.0 98.0 98.0 98.0 98.0 98.0

GE 300 62.6 66.0 83.7 90.3 90.9 93.9 95.3 95.9 98.0 98.0 98.0 98.0 98.0 98.0 98.0

GE 200 62.6 66.0 83.7 90.3 90.9 93.9 95.3 95.9 98.0 98.0 98.0 98.0 98.0 98.0 98.0

GE 100 62.6 66.0 83.7 90.3 90.9 93.9 95.3 95.9 98.0 98.0 98.0 98.0 98.0 98.0 98.0

GE 0 62.6 66.0 83.7 90.0 90.9 93.9 95.3 95.9 98.0 98.0 98.0 98.0 98.0 98.0 98.0

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TOTAL NUMBER OF OBSERVATIONS: 639

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

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

CEILING IN FEET 1 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 820 840 860 880 900 920 940 960 980 1000 1020 1040 1060 1080 1100 1120 1140 1160 1180 1200 1220 1240 1260 1280 1300 1320 1340 1360 1380 1400 1420 1440 1460 1480 1500 1520 1540 1560 1580 1600 1620 1640 1660 1680 1700 1720 1740 1760 1780 1800 1820 1840 1860 1880 1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100 2120 2140 2160 2180 2200 2220 2240 2260 2280 2300 2320 2340 2360 2380 2400 2420 2440 2460 2480 2500 2520 2540 2560 2580 2600 2620 2640 2660 2680 2700 2720 2740 2760 2780 2800 2820 2840 2860 2880 2900 2920 2940 2960 2980 3000 3020 3040 3060 3080 3100 3120 3140 3160 3180 3200 3220 3240 3260 3280 3300 3320 3340 3360 3380 3400 3420 3440 3460 3480 3500 3520 3540 3560 3580 3600 3620 3640 3660 3680 3700 3720 3740 3760 3780 3800 3820 3840 3860 3880 3900 3920 3940 3960 3980 4000 4020 4040 4060 4080 4100 4120 4140 4160 4180 4200 4220 4240 4260 4280 4300 4320 4340 4360 4380 4400 4420 4440 4460 4480 4500 4520 4540 4560 4580 4600 4620 4640 4660 4680 4700 4720 4740 4760 4780 4800 4820 4840 4860 4880 4900 4920 4940 4960 4980 5000 5020 5040 5060 5080 5100 5120 5140 5160 5180 5200 5220 5240 5260 5280 5300 5320 5340 5360 5380 5400 5420 5440 5460 5480 5500 5520 5540 5560 5580 5600 5620 5640 5660 5680 5700 5720 5740 5760 5780 5800 5820 5840 5860 5880 5900 5920 5940 5960 5980 6000 6020 6040 6060 6080 6100 6120 6140 6160 6180 6200 6220 6240 6260 6280 6300 6320 6340 6360 6380 6400 6420 6440 6460 6480 6500 6520 6540 6560 6580 6600 6620 6640 6660 6680 6700 6720 6740 6760 6780 6800 6820 6840 6860 6880 6900 6920 6940 6960 6980 7000 7020 7040 7060 7080 7100 7120 7140 7160 7180 7200 7220 7240 7260 7280 7300 7320 7340 7360 7380 7400 7420 7440 7460 7480 7500 7520 7540 7560 7580 7600 7620 7640 7660 7680 7700 7720 7740 7760 7780 7800 7820 7840 7860 7880 7900 7920 7940 7960 7980 8000 8020 8040 8060 8080 8100 8120 8140 8160 8180 8200 8220 8240 8260 8280 8300 8320 8340 8360 8380 8400 8420 8440 8460 8480 8500 8520 8540 8560 8580 8600 8620 8640 8660 8680 8700 8720 8740 8760 8780 8800 8820 8840 8860 8880 8900 8920 8940 8960 8980 9000 9020 9040 9060 9080 9100 9120 9140 9160 9180 9200 9220 9240 9260 9280 9300 9320 9340 9360 9380 9400 9420 9440 9460 9480 9500 9520 9540 9560 9580 9600 9620 9640 9660 9680 9700 9720 9740 9760 9780 9800 9820 9840 9860 9880 9900 9920 9940 9960 9980 10000 10020 10040 10060 10080 10100 10120 10140 10160 10180 10200 10220 10240 10260 10280 10300 10320 10340 10360 10380 10400 10420 10440 10460 10480 10500 10520 10540 10560 10580 10600 10620 10640 10660 10680 10700 10720 10740 10760 10780 10800 10820 10840 10860 10880 10900 10920 10940 10960 10980 11000 11020 11040 11060 11080 11100 11120 11140 11160 11180 11200 11220 11240 11260 11280 11300 11320 11340 11360 11380 11400 11420 11440 11460 11480 11500 11520 11540 11560 11580 11600 11620 11640 11660 11680 11700 11720 11740 11760 11780 11800 11820 11840 11860 11880 11900 11920 11940 11960 11980 12000 12020 12040 12060 12080 12100 12120 12140 12160 12180 12200 12220 12240 12260 12280 12300 12320 12340 12360 12380 12400 12420 12440 12460 12480 12500 12520 12540 12560 12580 12600 12620 12640 12660 12680 12700 12720 12740 12760 12780 12800 12820 12840 12860 12880 12900 12920 12940 12960 12980 13000 13020 13040 13060 13080 13100 13120 13140 13160 13180 13200 13220 13240 13260 13280 13300 13320 13340 13360 13380 13400 13420 13440 13460 13480 13500 13520 13540 13560 13580 13600 13620 13640 13660 13680 13700 13720 13740 13760 13780 13800 13820 13840 13860 13880 13900 13920 13940 13960 13980 14000 14020 14040 14060 14080 14100 14120 14140 14160 14180 14200 14220 14240 14260 14280 14300 14320 14340 14360 14380 14400 14420 14440 14460 14480 14500 14520 14540 14560 14580 14600 14620 14640 14660 14680 14700 14720 14740 14760 14780 14800 14820 14840 14860 14880 14900 14920 14940 14960 14980 15000 15020 15040 15060 15080 15100 15120 15140 15160 15180 15200 15220 15240 15260 15280 15300 15320 15340 15360 15380 15400 15420 15440 15460 15480 15500 15520 15540 15560 15580 15600 15620 15640 15660 15680 15700 15720 15740 15760 15780 15800 15820 15840 15860 15880 15900 15920 15940 15960 15980 16000 16020 16040 16060 16080 16100 16120 16140 16160 16180 16200 16220 16240 16260 16280 16300 16320 16340 16360 16380 16400 16420 16440 16460 16480 16500 16520 16540 16560 16580 16600 16620 16640 16660 16680 16700 16720 16740 16760 16780 16800 16820 16840 16860 16880 16900 16920 16940 16960 16980 17000 17020 17040 17060 17080 17100 17120 17140 17160 17180 17200 17220 17240 17260 17280 17300 17320 17340 17360 17380 17400 17420 17440 17460 17480 17500 17520 17540 17560 17580 17600 17620 17640 17660 17680 17700 17720 17740 17760 17780 17800 17820 17840 17860 17880 17900 17920 17940 17960 17980 18000 18020 18040 18060 18080 18100 18120 18140 18160 18180 18200 18220 18240 18260 18280 18300 18320 18340 18360 18380 18400 18420 18440 18460 18480 18500 18520 18540 18560 18580 18600 18620 18640 18660 18680 18700 18720 18740 18760 18780 18800 18820 18840 18860 18880 18900 18920 18940 18960 18980 19000 19020 19040 19060 19080 19100 19120 19140 19160 19180 19200 19220 19240 19260 19280 19300 19320 19340 19360 19380 19400 19420 19440 19460 19480 19500 19520 19540 19560 19580 19600 19620 19640 19660 19680 19700 19720 19740 19760 19780 19800 19820 19840 19860 19880 19900 19920 19940 19960 19980 20000 20020 20040 20060 20080 20100 20120 20140 20160 20180 20200 20220 20240 20260 20280 20300 20320 20340 20360 20380 20400 20420 20440 20460 20480 20500 20520 20540 20560 20580 20600 20620 20640 20660 20680 20700 20720 20740 20760 20780 20800 20820 20840 20860 20880 20900 20920 20940 20960 20980 21000 21020 21040 21060 21080 21100 21120 21140 21160 21180 21200 21220 21240 21260 21280 21300 21320 21340 21360 21380 21400 21420 21440 21460 21480 21500 21520 21540 21560 21580 21600 21620 21640 21660 21680 21700 21720 21740 21760 21780 21800 21820 21840 21860 21880 21900 21920 21940 21960 21980 22000 22020 22040 22060 22080 22100 22120 22140 22160 22180 22200 22220 22240 22260 22280 22300 22320 22340 22360 22380 22400 22420 22440 22460 22480 22500 22520 22540 22560 22580 22600 22620 22640 22660 22680 22700 22720 22740 22760 22780 22800 22820 22840 22860 22880 22900 22920 22940 22960 22980 23000 23020 23040 23060 23080 23100 23120 23140 23160 23180 23200 23220 23240 23260 23280 23300 23320 23340 23360 23380 23400 23420 23440 23460 23480 23500 23520 23540 23560 23580 23600 23620 23640 23660 23680 23700 23720 23740 23760 23780 23800 23820 23840 23860 23880 23900 23920 23940 23960 23980 24000 24020 24040 24060 24080 24100 24120 24140 24160 24180 24200 24220 24240 24260 24280 24300 24320 24340 24360 24380 24400 24420 24440 24460 24480 24500 24520 24540 24560 24580 24600 24620 24640 24660 24680 24700 24720 24740 24760 24780 24800 24820 24840 24860 24880 24900 24920 24940 24960 24980 25000 25020 25040 25060 25080 25100 25120 25140 25160 25180 25200 25220 25240 25260 25280 25300 25320 25340 25360 25380 25400 25420 25440 25460 25480 25500 25520 25540 25560 25580 25600 25620 25640 25660 25680 25700 25720 25740 25760 25780 25800 25820 25840 25860 25880 25900 25920 25940 25960 25980 26000 26020 26040 26060 26080 26100 26120 26140 26160 26180 26200 26220 26240 26260 26280 26300 26320 26340 26360 26380 26400 26420 26440 26460 26480 26500 26520 26540 26560 26580 26600 26620 26640 26660 26680 26700 26720 26740 26760 26780 26800 26820 26840 26860 26880 26900 26920 26940 26960 26980 27000 27020 27040 27060 27080 27100 27120 27140 27160 27180 27200 27220 27240 27260 27280 27300 27320 27340 27360 27380 27400 27420 27440 27460 27480 27500 27520 27540 27560 27580 27600 27620 27640 27660 27680 27700 27720 27740 27760 27780 27800 27820 27840 27860 27880 27900 27920 27940 27960 27980 28000 28020 28040 28060 28080 28100 28120 28140 28160 28180 28200 28220 28240 28260 28280 28300 28320 28340 28360 28380 28400 28420 28440 28460 28480 28500 28520 28540 28560 28580 28600 28620 28640 28660 28680 28700 28720 28740 28760 28780 28800 28820 28840 28860 28880 28900 28920 28940 28960 28980 29000 29020 29040 29060 29080 29100 29120 29140 29160 29180 29200 29220 29240 29260 29280 29300 29320 29340 29360 29380 29400 29420 29440 29460 29480 29500 29520 29540 29560 29580 29600 29620 29640 29660 29680 29700 29720 29740 29760 29780 29800 29820 29840 29860 29880 29900 29920 29940 29960 29980 30000 30020 30040 30060 30080 30100 30120 30140 30160 30180 30200 30220 30240 30260 30280 30300 30320 30340 30360 30380 30400 30420 30440 30460 30480 30500 30520 30540 30560 30580 30600 30620 30640 30660 30680 30700 30720 30740 30760 30780 30800 30820 30840 30860 30880 30900 30920 30940 30960 30980 31000 31020 31040 31060 31080 31100 31120 31140 31160 31180 31200 31220 31240 31260 31280 31300 31320 31340 31360 31380 31400 31420 31440 31460 31480 31500 31520 31540 31560 31580 31600 31620 31640 31660 31680 31700 31720 31740 31760 31780 31800 31820 31840 31860 31880 31900 31920 31940 31960 31980 32000 32020 32040 32060 32080 32100 32120 32140 32160 32180 32200 32220 32240 32260 32280 32300 32320 32340 32360 32380 32400 32420 32440 32460 32480 32500 32520 32540 32560 32580 32600 32620 32640 32660 32680 32700 32720 32740 32760 32780 32800 32820 32840 32860 32880 32900 32920 32940 32960 32980 33000 33020 33040 33060 33080 33100 33120 33140 33160 33180 33200 33220 33240 33260 33280 33300 33320 33340 33360 33380 33400 33420 33440 33460 33480 33500 33520 33540 33560 33580 33600 33620 33640 33660 33680 33700 33720 33740 33760 33780 33800 33820 33840 33860 33880 33900 33920 33940 33960 33980 34000 34020 34040 34060 34080 34100 34120 34140 34160 34180 34200 34220 34240 34260 34280 34300 34320 34340 34360 34380 34400 34420 34440 34460 34480 34500 34520 34540 34560 34580 34600 34620 34640 34660 34680 34700 34720 34740 34760 34780 34800 34820 34840 34860 34880 34900 34920 34940 34960 34980 35000 35020 35040 35060 35080 35100 35120 35140 35160 35180 35200 35220 35240 35260 35280 35300 35320 35340 35360 35380 35400 35420 35440 35460 35480 35500 35520 35540 35560 35580 35600 35620 35640 35660 35680 35700 35720 35740 35760 35780 35800 35820 35840 35860 35880 35900 35920 35940 35960 35980 36000 36020 36040 36060 36080 36100 36120 36140 36160 36180 36200 36220 36240 36260 36280 36300 36320 36340 36360 36380 36400 36420 36440 36460 36480 36500 36520 36540 36560 36580 36600 36620 36640 36660 36680 36700 36720 36740 36760 36780 36800 36820 36840 36860 36880 36900 36920 36940 36960 36980 37000 37020 37040 37060 37080 37100 37120 37140 37160 37180 37200 37220 37240 37260 37280 37300 37320 37340 37360 37380 37400 37420 37440 37460 37480 37500 37520 37540 37560 37580 37600 37620 37640 37660 37680 37700 37720 37740 37760 37780 37800 37820 37840 37860 37880 37900 37920 37940 37960 37980 38000 38020 38040 38060 38080 38100 38120 38140 38160 38180 38200 38220 38240 38260 38280 38300 38320 38340 38360 38380 38400 38420 38440 38460 38480 38500 38520 38540 38560 38580 38600 38620 38640 38660 38680 38700 38720 38740 38760 38780 38800 38820 38840 38860 38880 38900 38920 38940 38960 38980 39000 39020 39040 39060 39080 39100 39120 39140 39160 39180 39200 39220 39240 39260 39280 39300 39320 39340 39360 39380 39400 39420 39440 39460 39480 39500 39520 39540 39560 39580 39600 39620 39640 39660 39680 39700 39720 39740 39760 39780 39800 39820 39840 39860 39880 39900 39920 39940 39960 39980 40000 40020 40040 40060 40080 40100 40120 40140 40160 40180 40200 40220 40240 40260 40280 40300 40320 40340 40360 40380 40400 40420 40440 40460 40480 40500 40520 40540 40560 40580 40600 40620 40640 40660 40680 40700 40720 40740 40760 40780 40800 40820 40840 40860 40880 40900 40920 40940 40960 40980 41000 41020 41040 41060 41080 41100 41120 41140 41160 41180 41200 41220 41240 41260 41280 41300 41320 41340 41360 41380 41400 41420 41440 41460 41480 41500 41520 41540 41560 41580 41600 41620 41640 41660 41680 41700 41720 41740 41760 41780 41800 41820 41840 41860 41880 41900 41920 41940 41960 41980 42000 42020 42040 42060 42080 42100 42120 42140 42160 42180 42200 42220 42240

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/RAC

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY, HOURS(LST): 1200-1400

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	40	32	24	20	16	12	10	8	5	4	0
FEET	160															
NO CEIL	1	32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE 20000		36.1	36.3	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 18000		36.6	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 16000		36.6	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 14000		37.3	37.9	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 12000		38.2	38.8	39.7	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 10000		41.4	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 9000		42.0	42.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 8000		47.6	48.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 7000		49.4	50.3	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 6000		49.8	50.8	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 5000		54.5	55.4	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 4000		56.8	57.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 3000		64.5	65.6	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 2500		72.8	74.0	77.6	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 2000		82.3	83.7	87.8	88.2	88.2	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1500		84.6	86.1	90.2	90.5	90.5	90.6	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 1000		86.4	87.9	93.1	93.7	93.7	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 800		86.7	88.2	93.4	94.0	94.0	94.1	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 700		87.6	89.1	94.7	95.5	95.5	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 600		88.5	90.0	95.9	96.7	96.7	97.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 500		88.8	90.3	96.5	97.5	97.5	97.9	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 400		89.8	90.3	96.8	98.0	98.0	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 300		89.0	90.5	97.0	98.2	98.2	98.5	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 200		89.1	90.6	97.1	98.5	98.5	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 100		89.1	90.6	97.3	98.6	98.6	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 50		89.1	90.6	97.3	98.8	98.8	99.1	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 40		89.1	90.6	97.4	98.9	98.9	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 30		89.1	90.6	97.4	98.9	98.9	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 20		89.1	90.6	97.4	98.9	98.9	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 10		89.1	90.6	97.4	98.9	98.9	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

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

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	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
GE 20000	42.7	42.9	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 18000	43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 16000	43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 14000	43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 12000	44.3	44.6	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 10000	48.5	48.9	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 9000	49.7	50.2	51.1	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 8000	54.0	54.6	55.5	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 7000	56.5	57.1	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 6000	57.1	57.7	58.8	58.8	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 5000	62.5	63.1	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 4500	66.0	66.8	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 4000	75.0	75.8	77.3	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 3500	79.6	80.6	83.0	83.0	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 3000	86.4	87.3	90.1	90.1	90.6	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2500	87.7	88.6	91.5	91.5	92.1	92.1	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 2000	89.5	90.6	94.1	94.1	95.2	95.2	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1800	89.7	90.7	94.4	94.4	95.5	95.5	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1500	90.7	91.8	95.7	95.7	96.8	96.8	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1200	91.4	92.4	96.6	96.6	97.7	97.7	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1000	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 800	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 700	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 600	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 400	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 300	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 200	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 100	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 0	91.4	92.4	96.8	96.8	97.8	97.8	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS: 648

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1800-2000

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1800-2000

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10C07	54.7	55.5	55.5	55.5
16D91	54.7	55.5	55.5	55.5
3E	54.7	55.5	55.5	55.5
5A	54.7	55.5	55.5	55.5
5B	54.7	55.5	55.5	55.5
5C	54.7	55.5	55.5	55.5
5D	54.7	55.5	55.5	55.5
5E	54.7	55.5	55.5	55.5
5F	54.7	55.5	55.5	55.5
5G	54.7	55.5	55.5	55.5
5H	54.7	55.5	55.5	55.5
5I	54.7	55.5	55.5	55.5
5J	54.7	55.5	55.5	55.5
5K	54.7	55.5	55.5	55.5
5L	54.7	55.5	55.5	55.5
5M	54.7	55.5	55.5	55.5
5N	54.7	55.5	55.5	55.5
5O	54.7	55.5	55.5	55.5
5P	54.7	55.5	55.5	55.5
5Q	54.7	55.5	55.5	55.5
5R	54.7	55.5	55.5	55.5
5S	54.7	55.5	55.5	55.5
5T	54.7	55.5	55.5	55.5
5U	54.7	55.5	55.5	55.5
5V	54.7	55.5	55.5	55.5
5W	54.7	55.5	55.5	55.5
5X	54.7	55.5	55.5	55.5
5Y	54.7	55.5	55.5	55.5
5Z	54.7	55.5	55.5	55.5

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Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

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SE	2500	85.1	88.7	92.6	93.7	93.7	93.7	93.7	93.7
SE	2500	85.1	88.7	92.6	93.7	93.7	93.7	93.7	93.7

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	0	1	2	3	4	5	6	7	8	9
5E	88.1	90.7	95.9	97.4	97.8	98.5	98.5	98.5	98.5	98.5
6E	88.1	90.7	95.9	97.4	97.8	98.5	98.5	98.5	98.5	98.5

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55E	400	90.7	98.3	98.9	99.6	100.0	100.0	100.0	100.0
55E	400	90.7	98.3	98.9	99.6	100.0	100.0	100.0	100.0

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TOTAL NUMBER OF OBSERVATIONS:	539
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STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 2100-2300.

STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 2100-2300.

[illegible]

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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6E 16000	52.5	52.5	54.2	54.9	54.9	54.9	54.9	54.9	54.9
	52.5	52.5	54.2	54.9	54.9	54.9	54.9	54.9	54.9

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GE	5001	77.5	78.9	89.4	93.7	94.4	95.8	97.2	97.5	97.5	97.5	97.5	97.5
GE <td>5001</td> <td>77.5</td> <td>78.9</td> <td>89.4</td> <td>93.7</td> <td>94.4</td> <td>95.8</td> <td>97.2</td> <td>97.5</td> <td>97.5</td> <td>97.5</td> <td>97.5</td> <td>97.5</td>	5001	77.5	78.9	89.4	93.7	94.4	95.8	97.2	97.5	97.5	97.5	97.5	97.5

6E	6001	77.5	78.9	87.4	93.1	94.4	96.8	98.2	98.6	98.6	98.6 .	98.6	98.6	98.6
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GE	100	77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0
GE	100	77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0

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TOTAL NUMBER OF OBSERVATIONS: 284

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

1. The first part of the document is a list of names and their corresponding addresses. The names are listed in a single column, and the addresses are listed in a single column to the right of the names. The names are: John Doe, Jane Doe, and John Doe. The addresses are: 123 Main St, 456 Main St, and 789 Main St.

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Abstract

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY

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

CEILING		VISIBILITY IN HUNDREDS OF METERS															
IN	FEET	90	80	60	48	40	32	24	20	16	12	10	8	5	4	3	2
NO	CEIL	33.9	34.0	35.3	35.6	35.6	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE	2000	39.7	40.0	41.6	42.0	42.0	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE	1800	40.4	40.8	42.5	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE	1600	41.4	40.8	42.5	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE	1400	40.8	41.2	42.9	43.3	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE	1200	41.7	42.1	43.9	44.3	44.3	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE	1000	44.5	45.1	47.4	47.9	48.0	48.2	48.2	48.2	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4
GE	900	45.7	46.4	49.1	49.5	49.7	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.2
GE	800	51.4	52.3	55.3	55.9	56.0	56.3	56.4	56.4	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7
GE	700	53.5	54.5	57.8	58.5	58.6	58.8	58.9	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3
GE	600	54.0	55.0	58.4	59.2	59.3	59.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1
GE	500	58.1	59.4	63.4	64.2	64.3	64.6	64.7	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE	450	60.2	61.6	65.9	66.7	66.8	67.2	67.3	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7
GE	400	65.2	67.6	72.7	73.8	73.9	74.3	74.4	74.5	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8
GE	350	69.9	71.6	77.8	79.1	79.2	79.7	79.9	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE	300	76.1	77.9	84.8	86.1	86.4	87.0	87.2	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.7
GE	250	77.2	79.2	86.5	88.0	88.3	88.9	89.1	89.2	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6
GE	200	79.3	81.5	89.8	91.7	91.9	92.6	93.0	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5
GE	180	79.5	81.7	90.1	92.3	92.3	93.0	93.4	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.9
GE	160	80.4	82.8	91.3	93.3	93.7	94.5	94.9	95.0	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4
GE	140	80.7	83.3	92.3	94.5	94.8	95.9	96.3	96.4	96.7	96.7	96.7	96.7	96.8	96.8	96.8	96.8
GE	120	81.1	83.5	92.8	95.2	95.5	96.6	97.1	97.2	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6
GE	90	81.2	83.6	93.0	95.4	95.7	96.9	97.3	97.5	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9
GE	80	81.2	83.6	93.1	95.5	95.9	97.1	97.7	97.8	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3
GE	70	81.2	83.7	93.2	95.8	96.3	97.5	98.1	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE	60	81.2	83.7	93.3	96.0	96.5	97.8	98.4	98.5	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
GE	50	81.2	83.7	93.5	96.2	96.8	98.1	98.7	98.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
GE	40	81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8
GE	30	81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9
GE	20	81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9
GE	10	81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8	100.0
GE	0	81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 3428

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0600-0800

CEILING IN FT VISIBILITY IN HUNDREDS OF METERS

GE 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	27.5	28.5	33.7	36.2	36.5	37.6	38.0	38.2	38.2	38.3	38.3	38.3	38.3	38.5	38.5
GE 20000	31.6	32.7	39.1	41.8	42.1	43.5	44.0	44.1	44.1	44.1	44.3	44.3	44.3	44.3	44.4	44.4
GE 19000	31.8	32.8	39.2	42.0	42.3	43.7	44.1	44.3	44.3	44.3	44.4	44.4	44.4	44.4	44.6	44.6
GE 18000	31.9	33.0	39.4	42.1	42.4	43.8	44.3	44.4	44.4	44.4	44.6	44.6	44.6	44.6	44.7	44.7
GE 17000	32.1	33.1	39.5	42.3	42.6	44.0	44.4	44.6	44.6	44.6	44.7	44.7	44.7	44.7	44.9	44.9
GE 16000	34.2	35.3	41.7	44.4	44.7	46.1	46.6	46.7	46.7	46.7	46.9	46.9	46.9	46.9	47.0	47.0
GE 15000	36.6	37.7	45.0	47.9	48.2	49.8	50.4	50.5	50.5	50.5	50.7	50.7	50.7	50.7	50.8	50.8
GE 14000	38.5	39.5	48.9	52.1	52.4	53.9	54.5	54.7	54.7	54.7	54.8	54.8	54.8	54.8	55.0	55.0
GE 13000	44.1	45.2	55.1	58.5	58.9	60.6	61.4	61.5	61.5	61.5	61.7	61.7	61.7	61.7	61.8	61.8
GE 12000	45.8	47.0	58.0	61.5	61.8	63.5	64.3	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.7	64.7
GE 11000	46.7	47.9	59.2	62.9	63.2	64.9	65.6	65.8	65.8	65.8	66.0	66.0	66.0	66.0	66.1	66.1
GE 10000	51.1	52.4	64.1	67.8	68.1	69.8	70.5	70.7	70.7	70.7	70.8	70.8	70.8	70.8	71.0	71.0
GE 9000	54.0	55.3	67.3	71.0	71.3	73.0	73.7	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.2	74.2
GE 8000	58.0	59.7	72.5	76.3	76.6	78.8	79.8	80.0	80.5	80.5	80.6	80.6	80.6	80.6	80.8	80.8
GE 7000	59.5	61.4	74.8	79.1	79.5	82.0	83.1	83.2	83.7	83.8	83.8	83.8	83.8	83.8	84.0	84.0
GE 6000	62.7	64.6	79.1	83.7	84.1	87.2	88.2	88.4	88.9	89.0	89.0	89.0	89.0	89.0	89.2	89.2
GE 5000	63.8	65.8	80.6	85.5	86.1	89.5	90.5	90.7	91.1	91.1	91.3	91.3	91.3	91.3	91.5	91.5
GE 4000	65.0	67.0	82.4	87.5	88.1	91.5	92.5	92.7	93.1	93.1	93.3	93.3	93.3	93.3	93.4	93.4
GE 3000	65.2	67.3	82.9	88.4	88.9	92.2	93.3	93.4	93.9	94.0	94.0	94.0	94.0	94.0	94.2	94.2
GE 2000	65.5	67.6	84.1	89.9	90.4	94.0	95.3	95.4	95.9	96.0	96.0	96.0	96.0	96.0	96.2	96.2
GE 1000	65.6	67.9	84.7	90.7	91.1	94.8	96.0	96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.9	96.9
GE 1000	66.1	68.4	85.5	91.5	91.9	95.6	96.8	96.9	97.4	97.4	97.6	97.6	97.6	97.6	97.7	97.7
GE 900	66.4	68.7	86.0	91.9	92.4	96.0	97.3	97.4	97.9	98.0	98.0	98.0	98.0	98.0	98.2	98.2
GE 800	66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.5	98.5	98.8	98.8
GE 700	66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.5	98.5	98.8	98.8
GE 600	66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.5	98.5	99.1	99.2
GE 500	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	99.4
GE 400	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	99.4
GE 300	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	99.5
GE 200	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	99.8
GE 100	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	99.8
GE 0	66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	98.6	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 655

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86

MONTH: JUN HOURS(LST): 0900-1100

CEILING IN FEET VISIBILITY IN HUNDREDS OF METERS

GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160

GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160

GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160 GE 160

NO CEIL 31.1 32.1 34.8 35.6 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7

GE 20000 35.3 36.3 39.9 40.8 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 18000 35.4 36.5 40.0 41.0 41.1 41.1 41.1 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 16000 35.6 36.7 40.2 41.1 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3

GE 14000 35.9 37.0 40.5 41.4 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 41.6 41.6 41.6

GE 12000 37.0 38.0 41.6 42.5 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6 42.6

GE 10000 40.8 42.2 46.2 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 47.4 47.4

GE 9000 42.0 43.4 47.5 48.8 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9 48.9

GE 8000 46.6 48.0 53.1 54.3 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4

GE 7000 50.3 51.7 56.7 58.0 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 58.1 58.1

GE 6000 51.5 52.9 58.0 59.2 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4

GE 5000 54.6 56.0 61.0 62.3 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4 62.4

GE 4500 56.4 58.3 63.8 65.2 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3

GE 4000 60.9 62.9 69.0 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9

GE 3500 65.6 67.9 74.2 76.1 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5

GE 3000 74.2 77.1 84.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0

GE 2500 76.8 79.8 86.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8 88.8

GE 2000 78.5 81.7 89.7 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0

GE 1800 79.3 82.5 90.6 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9 92.9

GE 1500 80.4 83.6 92.2 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94.9

GE 1200 81.0 84.2 93.1 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0

GE 1000 81.0 84.2 93.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3

GE 900 81.0 84.2 93.4 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5

GE 800 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 700 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 600 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 500 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 400 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 300 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 200 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 100 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

GE 0 81.0 84.2 93.4 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6 96.6

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-1700

CEILING VISIBILITY IN HUNDREDS OF METERS

	IN	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0		
NO CEIL	29.0	29.9	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
GE 20000	35.2	36.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 18000	36.4	37.0	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	37.1	37.1	37.1
GE 16000	36.4	37.0	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	37.1	37.1	37.1
GE 14000	36.4	37.0	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	37.1	37.1	37.1
GE 12000	37.3	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
GE 10000	42.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	45.1	45.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 8000	54.4	55.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 7000	57.7	58.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 6000	59.2	60.3	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 5000	65.7	66.8	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 4500	69.3	70.4	72.7	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 4000	75.7	77.0	80.3	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 3500	82.6	84.0	88.4	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 3000	87.3	89.7	93.7	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2500	90.0	91.8	96.2	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 2000	90.4	92.3	97.0	97.5	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800	90.4	92.5	97.2	97.6	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1500	93.8	92.9	97.0	98.0	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 1200	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	91.1	93.4	90.4	99.2	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/7MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(15): 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	GE	GE
FEET	160	90	80	60	40	32	24	20	16	12	10	8	5	4	3	2	1	0	0

NO CEIL | 34.0 34.0 35.1 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2

GE 20000 | 43.1 43.3 44.7 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9 44.9

GE 18000 | 43.3 43.5 44.9 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1

GE 16000 | 43.3 43.5 44.9 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1

GE 14000 | 44.0 44.2 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 45.8 45.8 45.8 45.8

GE 12000 | 44.2 44.4 45.8 46.0 46.0 46.0 46.0 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 10000 | 48.8 49.0 50.8 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2 51.2

GE 9000 | 53.1 53.3 55.1 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3 55.3

GE 8000 | 64.2 64.4 66.2 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4 66.4

GE 7000 | 67.4 67.6 69.6 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8

GE 6000 | 68.9 69.1 71.0 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.2

GE 5000 | 73.5 73.9 76.4 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6

GE 4500 | 78.9 79.4 81.9 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1

GE 4000 | 85.3 86.0 88.9 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4

GE 3500 | 87.7 88.4 91.4 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1

GE 3000 | 90.9 91.8 95.7 96.6 97.0 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5

GE 2500 | 91.9 92.8 97.0 97.9 98.2 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7

GE 2000 | 92.1 93.0 97.1 98.4 98.7 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3

GE 1800 | 92.3 93.2 97.3 98.6 98.9 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5

GE 1500 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 1200 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 1000 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 500 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 400 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 300 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 200 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

GE 100 | 92.5 93.7 97.9 99.1 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

TOTAL NUMBER OF OBSERVATIONS: 559

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HAWAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUN HOURS(LST): 2100-2300

CEILING		VISIBILITY IN HUNDREDS OF METERS																			
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4						
NO CEIL	1	39.1	39.1	40.6	40.9	41.2	41.8	41.8	42.1	42.1	42.1	42.4	42.4	42.4	42.4						
GE 20000	45.7	46.0	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4						
GE 18000	45.7	46.0	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4						
GE 16000	45.7	46.0	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4						
GE 14000	45.7	46.0	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4						
GE 12000	45.7	46.0	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4						
GE 10000	47.8	48.7	51.6	52.2	52.8	53.4	53.4	53.4	53.7	53.7	53.7	54.0	54.0	54.0	54.0						
GE 9000	49.6	50.4	54.0	54.6	55.2	55.8	55.8	55.8	56.1	56.1	56.1	56.4	56.4	56.4	56.4						
GE 8000	57.9	59.1	63.9	64.5	65.1	65.7	65.7	65.7	66.0	66.0	66.0	66.3	66.3	66.3	66.3						
GE 7000	60.3	61.5	66.9	67.5	68.1	69.0	69.0	69.0	69.3	69.3	69.3	69.6	69.6	69.6	69.6						
GE 6000	61.2	62.4	67.8	68.4	69.0	69.9	69.9	69.9	70.1	70.1	70.1	70.4	70.4	70.4	70.4						
GE 5000	65.1	66.6	72.5	73.1	73.7	74.6	74.6	74.6	74.9	74.9	74.9	75.2	75.2	75.2	75.2						
GE 4500	70.7	72.2	78.2	78.8	79.4	80.3	80.3	80.3	80.6	80.6	80.6	80.9	80.9	80.9	80.9						
GE 4000	76.4	77.9	84.2	85.4	86.0	86.9	86.9	86.9	87.2	87.2	87.2	87.5	87.5	87.5	87.5						
GE 3500	80.6	82.4	88.7	90.1	90.7	91.6	91.6	91.6	92.2	92.2	92.2	92.5	92.5	92.5	92.5						
GE 3000	83.9	86.0	93.1	93.1	93.5	96.1	97.0	97.0	97.6	97.6	97.6	97.9	97.9	97.9	97.9						
GE 2500	84.2	86.3	93.4	93.8	95.8	96.4	97.3	97.3	97.9	97.9	98.2	98.2	98.5	98.5	98.5						
GE 2000	84.2	86.3	94.6	97.3	97.3	97.6	98.5	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7						
GE 1800	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 1500	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 1200	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 1000	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 900	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 800	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 700	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 600	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 500	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 400	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 300	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 200	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 100	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						
GE 0	84.2	86.3	94.9	97.3	97.3	97.9	98.8	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0						

TOTAL NUMBER OF OBSERVATIONS: 335

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

GERMANY

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400

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STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY
PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800.

[illegible][illegible]

SE 200001	31.7	34.4	38.5	41.0	41.6	42.1	42.1	42.3	42.3	42.3	42.3	42.4
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[illegible][illegible]

	SE	0000C1	36.5	39.5	44.7	47.5	48.2	48.7	48.7	49.0	49.0	49.0	49.0	49.0	49.2
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[illegible]

44.1	47.7	55.9	59.2	60.2	60.7	60.7	61.5	61.5	61.5	61.5	61.7
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[illegible][illegible]

61.2	67.4	80.9	86.5	86.8	88.5	89.3	89.3	90.5	90.5	90.5	90.5	90.5	90.5	90.6
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[illegible]

GE 18001	63.0	69.6	84.2	90.3	91.1	93.1	93.9	95.1	95.1	95.1	95.2
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[illegible][illegible][illegible][illegible][illegible]

Year	1990	1991	1992	1993	1994	1995	1996	1997
3001	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3002	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3003	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3004	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3005	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3006	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3007	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3008	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3009	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3010	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3011	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3012	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3013	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3014	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3015	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3016	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3017	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3018	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3019	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3020	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3021	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3022	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3023	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3024	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3025	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3026	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3027	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3028	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3029	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3030	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3031	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3032	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3033	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3034	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3035	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3036	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3037	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3038	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3039	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3040	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3041	64.1	71.2	87.0	93.5	94.4	97.7	97.7	99.0
3042								

[illegible]

GE	01	64.1	71.2	87.0	93.5	94.4	96.9	97.7	99.0	99.2	99.5	100.0
GE	01	64.1	71.2	87.0	93.5	94.4	96.9	97.7	99.0	99.2	99.5	100.0

[illegible]

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STATION NUMBER: 106429 STATION NAME: HAYAU AAF GERMANY

..... V I S I B I L I T Y I N H U N D R E D S O F M E T E R S

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 637

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

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

CEILINGS VISIBILITY IN HUNDREDS OF METERS

IN	1	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	1	160																

NO CEIL	1	34.9	34.9	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	35.8
GE 20000	1	44.3	44.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 18000	1	45.3	45.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 16000	1	45.3	45.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 14000	1	45.9	45.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 12000	1	45.9	47.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 10000	1	50.5	50.9	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 9000	1	51.3	51.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 8000	1	57.1	57.5	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 7000	1	59.3	59.7	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 6000	1	61.2	61.6	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 5000	1	67.0	67.5	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 4500	1	71.5	72.0	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 4000	1	77.2	77.7	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 3500	1	83.2	83.6	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 3000	1	93.7	91.2	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 2500	1	91.7	92.3	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000	1	93.4	94.0	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1800	1	93.4	94.0	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1500	1	93.4	94.0	98.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1200	1	93.4	94.0	98.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000	1	93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900	1	93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800	1	93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700	1	93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	1	93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUL HOURS(IST): 1500-1700

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	160	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0

NO CEIL 38.4 38.7 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 39.2

GE 20000 46.1 46.4 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3

GE 18000 46.1 46.4 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3

GE 16000 46.4 46.7 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6

GE 14000 46.5 46.9 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8

GE 12000 47.3 47.8 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 10000 50.3 50.8 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9 51.9

GE 9000 53.1 53.6 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7 54.7

GE 8000 59.6 60.1 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5 61.5

GE 7000 63.8 64.5 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9

GE 6000 65.6 66.2 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6

GE 5000 71.7 72.3 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7

GE 4500 76.9 77.5 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1 79.1

GE 4000 83.5 84.1 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0

GE 3500 87.6 88.2 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7

GE 3000 91.8 92.6 95.4 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6 95.6

GE 2500 93.4 94.2 97.0 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2

GE 2000 94.7 95.4 99.1 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2

GE 1800 94.8 95.6 99.5 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7

GE 1500 95.1 95.9 99.5 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7

GE 1200 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 1000 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 900 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 800 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 700 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 600 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 500 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 400 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 300 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 200 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 100 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 0 95.1 96.1 99.7 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

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TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
 MONTH: JUL HOURS(LST): 1800-2000

CEILING VISIBILITY IN HUNDREDS OF METERS

IN FT 1 160 80 40 32 24 20 16 12 10 8 5 4 0

NO CEIL 1 42.6 43.3 44.0 44.0 44.0 44.0 44.0 44.0 44.0 44.0 44.0 44.0 44.0

GE 20000 51.0 51.7 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3

GE 18000 51.5 52.2 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8

GE 16000 51.5 52.2 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8

GE 14000 51.8 52.5 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2

GE 12000 52.8 53.5 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2 54.2

GE 10000 55.9 56.5 57.2 57.4 57.4 57.4 57.4 57.4 57.4 57.4 57.4 57.4 57.4

GE 9000 57.2 57.9 58.7 58.9 58.9 58.9 58.9 58.9 58.9 58.9 58.9 58.9 58.9

GE 8000 62.7 63.5 64.5 64.7 64.7 64.7 64.7 64.7 64.7 64.7 64.7 64.7 64.7

GE 7000 65.6 66.4 67.4 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6

GE 6000 66.7 67.6 68.6 68.7 68.7 68.7 68.7 68.7 68.7 68.7 68.7 68.7 68.7

GE 5000 74.1 75.1 76.1 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3

GE 4500 79.8 80.9 81.9 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1

GE 4000 87.6 89.1 91.8 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1 92.1

GE 3500 90.0 91.5 94.1 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5

GE 3000 91.6 93.3 96.7 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2

GE 2500 92.8 94.6 98.2 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7

GE 2000 93.3 95.2 99.3 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5

GE 1800 93.3 95.2 99.3 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5

GE 1500 93.5 95.3 99.2 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7

GE 1200 93.5 95.3 99.2 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7

GE 1000 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 900 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 800 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 700 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 600 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 500 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 400 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 300 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 200 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 100 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

GE 0 93.6 95.5 99.3 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8

TOTAL NUMBER OF OBSERVATIONS: 598

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS.

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

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

CEILINGS VISIBILITY IN HUNDREDS OF METERS

IN FT 160 140 120 100 80 60 48 40 32 24 20 16 12 10 8 5 4 0

NO CEIL 42.0 43.9 46.4 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9

GE 20000 45.1 48.2 50.9 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8

GE 18000 46.4 48.5 51.2 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0

GE 16000 46.4 48.5 51.2 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0

GE 14000 46.6 48.8 51.5 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3 52.3

GE 12000 48.0 50.1 52.8 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6 53.6

GE 10000 49.3 51.8 55.3 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1

GE 9000 50.7 53.1 56.9 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7 57.7

GE 8000 56.1 58.8 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9 63.9

GE 7000 58.5 61.2 66.3 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 6000 60.4 63.6 68.7 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4 70.4

GE 5000 69.2 71.4 77.4 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0

GE 4500 71.2 74.4 80.6 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2

GE 4000 75.5 79.5 87.3 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5 89.5

GE 3500 76.8 81.4 89.8 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9

GE 3000 79.8 84.9 93.8 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2

GE 2500 80.3 85.7 95.7 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1

GE 2000 80.6 86.3 96.2 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7

GE 1500 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 1200 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 1000 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 900 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 800 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 700 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 600 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 500 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 400 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 300 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 200 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 100 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

GE 0 80.9 86.5 96.5 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9 98.9

TOTAL NUMBER OF OBSERVATIONS: 371

GLOBAL CLIMATOLOGY BRANCH

AIR WEATHER SERVICE/MAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86

MONTH: JUL HOURS (EST.): ALL

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VISIBILITY IN HUNDREDS OF METERS

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

	FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	.4	0
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[illegible][illegible]

66E 180301	42.8	44.0	46.2	46.8	47.0	47.1	47.1	47.1	47.1	47.1
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[illegible]

66E 140001	43.3	44.5	46.6	47.3	47.3	47.4	47.5	47.5	47.6	47.6	47.6	47.6	47.6
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GE 120001	44.3	45.7	47.9	48.5	48.5	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
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This image shows a highly magnified, vertical view of a material surface. It features a dense, repeating pattern of small, dark, irregular shapes, possibly representing a microscopic view of a material or a highly magnified texture. The pattern is consistent across the entire length of the image.

[illegible]

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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GE 5000	63.7	65.9	70.4	71.5	71.5	71.8	71.9	71.9	72.1	72.1	72.1	72.1
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[illegible]

GE 40001	73.8	76.4	82.1	83.4	83.5	83.9	84.1	84.1	84.3	84.3	84.3	84.3	84.3
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

GE	1000	84.9	88.1	95.9	98.2	98.4	99.1	99.3	99.5	99.5	99.5	99.5	99.5
GE	1000	84.9	88.1	95.9	98.2	98.4	99.1	99.3	99.5	99.5	99.5	99.5	99.5

Year	1990	1991	1992	1993	1994	1995	1996
84.9	88.1	95.9	98.2	99.1	99.3	99.5	99.5
90.0							

[illegible]

700	84.9	88.2	96.0	98.3	98.5	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7
700	84.9	88.2	96.0	98.3	98.5	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7

GE 6001	84.9	88.2	96.0	98.3	98.6	99.3	99.5	99.7	99.7	99.7	99.7	99.7
GE 6001	84.9	88.2	96.0	98.3	98.6	99.3	99.5	99.7	99.7	99.7	99.7	99.7

[illegible][illegible][illegible]

0.0001	6.666	8.888	9.999	4.444	0.999	2.222	5.555	Oct 30
0.0001	6.666	8.888	9.999	4.444	0.999	2.222	5.555	Oct 30

[illegible]

GE	0	84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	100.0
GE	0	84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	100.0

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TOTAL NUMBER OF OBSERVATIONS: 3486

TOTAL NUMBER OF OBSERVATIONS: 3486

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/HAC

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0600-0800

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	1	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	1	160	1	160	1	160	1	160	1	160	1	160	1	160	1	160	1	160
NO CEIL	1	22.8	25.4	35.3	39.7	40.1	40.9	41.7	42.5	42.8	43.0	43.0	43.2	43.4	43.4	43.7	43.7	43.7
GE 2000	0	26.1	29.0	39.8	44.4	44.8	45.0	45.8	47.7	48.0	48.1	48.1	48.4	48.5	48.6	48.9	48.9	48.9
GE 1900	0	26.3	29.2	40.7	45.4	45.8	47.0	47.8	48.7	49.0	49.1	49.1	49.3	49.4	49.6	49.7	49.7	49.7
GE 1800	0	26.4	29.3	40.8	45.5	46.0	47.1	48.0	48.9	49.1	49.3	49.3	49.6	49.7	49.7	49.7	49.7	49.7
GE 1700	0	26.6	29.6	41.2	46.1	46.6	47.7	48.6	49.4	49.7	49.9	49.9	50.1	50.3	50.3	50.6	50.6	50.6
GE 1600	0	27.3	30.3	42.4	47.6	48.0	49.6	50.4	51.3	51.6	51.7	51.7	52.0	52.2	52.2	52.4	52.4	52.4
GE 1500	0	29.2	33.5	46.6	51.9	52.3	54.2	55.2	56.0	56.8	56.9	56.9	57.2	57.3	57.3	57.6	57.6	57.6
GE 1400	0	31.5	35.2	48.7	54.2	54.6	56.5	57.5	58.3	59.1	59.3	59.3	59.6	59.8	59.8	60.1	60.1	60.1
GE 1300	0	34.3	39.1	54.5	60.5	60.9	62.8	63.8	64.7	65.4	65.7	65.7	65.9	66.1	66.1	66.4	66.4	66.4
GE 1200	0	35.2	39.9	56.5	62.6	63.1	64.9	65.9	66.8	67.5	67.8	67.8	68.1	68.2	68.2	68.5	68.5	68.5
GE 1100	0	36.5	41.2	57.8	63.9	64.5	66.4	67.4	68.2	69.0	69.3	69.3	69.5	69.7	69.7	70.0	70.0	70.0
GE 1000	0	40.1	45.0	62.1	68.2	68.8	70.8	71.8	72.7	73.4	73.7	73.7	74.0	74.1	74.1	74.4	74.4	74.4
GE 900	0	42.4	47.3	65.1	71.4	72.0	74.0	75.0	75.9	76.9	77.2	77.2	77.4	77.6	77.6	77.9	77.9	77.9
GE 800	0	44.0	48.9	67.8	75.3	75.9	78.0	79.0	79.9	80.9	81.2	81.2	81.5	81.6	81.6	81.9	81.9	81.9
GE 700	0	45.5	51.0	70.8	78.4	79.0	81.2	82.2	83.0	84.1	84.3	84.3	84.6	84.8	84.8	85.1	85.1	85.1
GE 600	0	45.8	51.4	71.8	79.5	80.2	83.5	84.5	85.3	86.5	86.8	86.8	87.1	87.2	87.2	87.5	87.5	87.5
GE 500	0	46.6	52.2	73.3	81.3	82.2	85.8	86.8	87.6	88.8	89.1	89.1	89.4	89.5	89.5	89.8	89.8	89.8
GE 400	0	46.8	52.4	73.6	81.8	82.6	86.8	87.8	88.8	89.9	90.2	90.2	90.5	90.7	90.7	90.9	90.9	90.9
GE 300	0	47.3	52.9	74.1	82.6	83.6	88.4	89.5	90.9	92.2	92.5	92.5	92.8	93.0	93.0	93.2	93.2	93.2
GE 200	0	47.3	53.0	74.7	83.3	84.3	89.2	90.4	91.8	93.1	93.4	93.4	93.7	93.8	93.8	94.1	94.1	94.1
GE 100	0	47.3	53.0	74.9	83.9	84.9	90.1	91.4	92.8	94.1	94.5	94.5	94.8	95.0	95.0	95.3	95.3	95.3
GE 50	0	47.3	53.0	74.9	84.1	85.2	90.5	92.0	93.4	94.7	95.1	95.1	95.4	95.5	95.5	95.8	95.8	95.8
GE 0	0	47.3	53.0	74.9	84.2	85.3	90.8	92.2	93.7	95.0	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3
GE 0	0	47.3	53.0	74.9	84.2	85.3	91.2	92.7	94.1	95.4	95.8	95.8	96.1	96.4	96.4	96.7	96.7	96.7
GE 0	0	47.3	53.0	74.9	84.2	85.3	91.2	92.7	94.1	95.5	96.1	96.1	96.4	96.7	96.7	97.1	97.1	97.1
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	92.8	94.3	96.0	96.6	96.6	96.8	97.1	97.1	97.4	97.4	97.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	97.7	97.7	98.0	98.0	98.0
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	97.8	97.8	98.1	98.1	98.1
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.1	98.4	98.4	98.4
GE 0	0	47.3	53.0	74.9														

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0900-1100

		VISIBILITY IN HUNDREDS OF METERS																	
CEILING																			
IN	GY	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	3	2	1	0
NO CEIL	33.2	35.5	42.3	42.3	42.6	42.6	42.9	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 20000	37.6	40.3	47.9	48.3	48.4	48.7	48.7	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 18000	38.1	40.8	48.9	49.3	49.4	49.7	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 16000	38.2	40.9	49.0	49.4	49.6	49.9	49.9	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 14000	38.6	41.3	49.6	50.0	50.1	50.4	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 12000	40.3	43.0	52.0	52.4	52.6	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 10000	43.2	45.9	56.4	56.8	57.0	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 9000	44.3	47.3	58.0	58.5	58.7	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 8000	47.6	50.7	62.2	63.1	63.2	63.8	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 7000	49.1	52.3	64.1	65.1	65.2	65.9	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
GE 6000	49.9	53.0	64.8	65.8	65.9	66.6	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 5000	53.7	56.8	68.9	69.9	70.0	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 4500	57.2	60.4	72.6	73.6	73.7	74.6	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 4000	62.2	65.8	79.1	80.5	80.7	81.8	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 3500	65.5	69.2	82.7	84.2	84.4	85.5	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3000	68.6	72.7	86.4	88.4	88.5	89.6	89.8	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500	69.9	74.1	87.9	90.1	90.2	91.3	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2000	70.7	75.0	89.2	91.5	91.6	92.9	93.0	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1800	70.7	75.0	89.5	92.2	92.3	93.6	93.8	93.9	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1500	71.2	75.6	90.5	93.3	93.5	94.9	95.0	95.2	95.3	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1200	71.3	75.7	91.2	94.5	94.6	96.2	96.3	96.4	96.7	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	71.3	75.7	91.3	94.6	94.7	96.6	97.0	97.2	97.3	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900	71.3	75.7	91.3	94.6	94.9	96.9	97.6	97.7	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 800	71.3	75.7	91.3	94.5	94.9	96.9	97.6	97.7	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 700	71.3	75.7	91.3	94.5	95.0	97.2	97.9	98.0	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 600	71.3	75.7	91.3	94.5	95.0	97.2	98.0	98.2	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 500	71.3	75.7	91.3	94.5	95.0	97.2	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 100	71.3	75.7	91.3	94.5	95.0	97.3	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 0	71.3	75.7	91.3	94.5	95.0	97.3	98.2	98.3	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS: 794

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS (LST): 1200-1400

CEILING
VISIBILITY IN HUNDREDS OF METERS

IN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

NO	CEVI	37.1	37.0	39.7	39.7	39.7	39.7	39.7	39.7
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[illegible]

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

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	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	] ^ _ { } ~ ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ { } ~ ? @																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1990	87.0	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0	92.1	92.2	92.3	92.4	92.5	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.3	93.4	93.5	93.6	93.7	93.8	93.9	94.0	94.1	94.2	94.3	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9	100.0

1. *What is the purpose of this document?*
 2. *What are the main findings of the study?*
 3. *What are the implications of the findings?*
 4. *What are the limitations of the study?*
 5. *What are the conclusions of the study?*
 6. *What are the recommendations for future research?*
 7. *What are the acknowledgments?*
 8. *What are the references?*
 9. *What are the appendices?*
 10. *What are the footnotes?*
 11. *What are the tables?*
 12. *What are the figures?*
 13. *What are the captions?*
 14. *What are the legends?*
 15. *What are the abbreviations?*
 16. *What are the symbols?*
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姓名	性别	年龄	籍贯	职业	文化程度	健康状况	婚姻状况	子女情况	其他
王德胜	男	45	山东	工人	高中	良好	已婚	2子1女	
李秀英	女	38	河北	教师	大学	良好	已婚	1子1女	
张国强	男	52	河南	农民	初中	一般	已婚	3子2女	
赵红梅	女	41	江苏	医生	大专	良好	已婚	1子1女	
孙为民	男	35	浙江	工程师	本科	良好	已婚	1子1女	
周丽娟	女	29	广东	护士	中专	良好	已婚	1子1女	
吴大伟	男	48	湖北	干部	高中	良好	已婚	2子1女	
郑晓芳	女	33	四川	会计	大专	良好	已婚	1子1女	
陈永刚	男	55	湖南	工人	初中	一般	已婚	3子2女	
林秀珍	女	42	福建	教师	大学	良好	已婚	1子1女	
黄国强	男	37	江西	农民	高中	良好	已婚	2子1女	
周为民	男	44	安徽	工人	初中	一般	已婚	3子2女	
吴丽娟	女	31	广西	护士	中专	良好	已婚	1子1女	
孙大伟	男	49	贵州	干部	高中	良好	已婚	2子1女	
郑晓芳	女	34	云南	会计	大专	良好	已婚	1子1女	
陈永刚	男	56	陕西	工人	初中	一般	已婚	3子2女	
林秀珍	女	43	山西	教师	大学	良好	已婚	1子1女	
黄国强	男	38	内蒙古	农民	高中	良好	已婚	2子1女	
周为民	男	45	辽宁	工人	初中	一般	已婚	3子2女	
吴丽娟	女	32	吉林	护士	中专	良好	已婚	1子1女	
孙大伟	男	50	黑龙江	干部	高中	良好	已婚	2子1女	
郑晓芳	女	35	山东	会计	大专	良好	已婚	1子1女	
陈永刚	男	57	河南	工人	初中	一般	已婚	3子2女	
林秀珍	女	44	河北	教师	大学	良好	已婚	1子1女	
黄国强	男	39	江苏	农民	高中	良好	已婚	2子1女	
周为民	男	46	浙江	工人	初中	一般	已婚	3子2女	
吴丽娟	女	33	广东	护士	中专	良好	已婚	1子1女	
孙大伟	男	51	湖北	干部	高中	良好	已婚	2子1女	
郑晓芳	女	36	四川	会计	大专	良好	已婚	1子1女	
陈永刚	男	58	湖南	工人	初中	一般	已婚	3子2女	
林秀珍	女	45	福建	教师	大学	良好	已婚	1子1女	
黄国强	男	40	江西	农民	高中	良好	已婚	2子1女	
周为民	男	47	安徽	工人	初中	一般	已婚	3子2女	
吴丽娟	女	34	广西	护士	中专	良好	已婚	1子1女	
孙大伟	男	52	贵州	干部	高中	良好	已婚	2子1女	
郑晓芳	女	37	云南	会计	大专	良好	已婚	1子1女	
陈永刚	男	59	陕西	工人	初中	一般	已婚	3子2女	
林秀珍	女	46	山西	教师	大学	良好	已婚	1子1女	
黄国强	男	41	内蒙古	农民	高中	良好	已婚	2子1女	
周为民	男	48	辽宁	工人	初中	一般	已婚	3子2女	
吴丽娟	女	35	吉林	护士	中专	良好	已婚	1子1女	
孙大伟	男	53	黑龙江	干部	高中	良好	已婚	2子1女	
郑晓芳	女	38	山东	会计	大专	良好	已婚	1子1女	
陈永刚	男	60	河南	工人	初中	一般	已婚	3子2女	
林秀珍	女	47	河北	教师	大学	良好	已婚	1子1女	
黄国强	男	42	江苏	农民	高中	良好	已婚	2子1女	
周为民	男	49	浙江	工人	初中	一般	已婚	3子2女	
吴丽娟	女	36	广东	护士	中专	良好	已婚	1子1女	
孙大伟	男	54	湖北	干部	高中	良好	已婚	2子1女	
郑晓芳	女	39	四川	会计	大专				

Year	Number of cases	Percentage of total cases	Age group	Sex	Occupation	Education	Marital status	Religion	Ethnicity	Language	Health status	Family size	Income	Access to health care	Health insurance	Health literacy	Health beliefs	Health behaviors	Health outcomes
2000	100	100	18-24	M	Student	High school	Single	Christian	White	English	Good	3	\$10,000	Yes	Yes	High	Healthy	Active	Good
2001	100	100	25-34	F	Teacher	College	Married	Muslim	Black	Spanish	Fair	4	\$15,000	No	No	Low	Sickly	Sedentary	Fair
2002	100	100	35-44	M	Engineer	Graduate	Single	Hindu	Asian	Hindi	Excellent	2	\$20,000	Yes	Yes	Very High	Very Healthy	Very Active	Very Good
2003	100	100	45-54	F	Nurse	High school	Married	Buddhist	Latino	Spanish	Good	5	\$12,000	Yes	Yes	Medium	Healthy	Active	Good
2004	100	100	55-64	M	Farmer	High school	Married	Christian	White	English	Fair	3	\$8,000	No	No	Low	Sickly	Sedentary	Fair
2005	100	100	65-74	F	Retired	College	Single	Jewish	White	Hebrew	Excellent	2	\$25,000	Yes	Yes	Very High	Very Healthy	Very Active	Very Good
2006	100	100	75-84	M	Unemployed	High school	Married	Christian	Black	English	Poor	4	\$5,000	No	No	Low	Sickly	Sedentary	Poor
2007	100	100	85-94	F	Unemployed	High school	Married	Christian	White	English	Poor	3	\$3,000	No	No	Low	Sickly	Sedentary	Poor
2008	100	100	95-104	M	Unemployed	High school	Married	Christian	White	English	Poor	3	\$3,000	No	No	Low	Sickly	Sedentary	Poor

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAYU DER VAY ANHARD

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS (LST): 1800-1700

VISIBILITY IN HUNDREDS OF METERS																
CEILING	IN FEET	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300
CEILING	IN FEET	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300
30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400
40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450
50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500	550
70	80	90	100	120	140	160	180	200	250	300	350	400	450	500	550	600
80	90	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650
90	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700
100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750
120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800
140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850
160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH
USAFETAG
PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAYAU AAF GERMANY

PERIOD OF RECORD: 76-88
MONTH: AUG HOURS(LSY): 1800-2000

CEILING VISIBILITY IN HUNDREDS OF METERS

[illegible][illegible][illegible][illegible][illegible]

6E 126301 56.1 57.4 60.8 60.6 60.7 60.9 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0

[illegible]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2
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[illegible]

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

[illegible][illegible]

GE	3500	87.0	86.3	93.7	94.6	94.8	94.9	95.1	95.1	95.3	95.3	95.3
GE	3500	88.7	90.0	90.3	92.4	92.5	92.7	92.9	92.9	93.0	93.0	93.0

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1
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0	0	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225	256	289	324	361	400	441	484	529	576	625	676	729	784	841	900	961	1024	1089	1156	1225	1296	1369	1444	1521	1600	1681	1764	1849	1936	2025	2116	2209	2304	2401	2500	2601	2704	2809	2916	3025	3136	3249	3364	3481	3600	3721	3844	3969	4096	4225	4356	4489	4624	4761	4900	5041	5184	5329	5476	5625	5776	5929	6084	6241	6400	6561	6724	6889	7056	7225	7396	7569	7744	7921	8100	8281	8464	8649	8836	9025	9216	9409	9604	9801	10000

[illegible][illegible][illegible][illegible][illegible]

TOTAL NUMBER OF OBSERVATIONS: 652

Table 1. *Continued*

1

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a very important document, as it sets out the President's policy for the new year. The President states that he is pleased to see the Congress assembled, and that he is confident that the country is in a good position to meet the challenges of the future. He also mentions the recent election of Abraham Lincoln as President, and expresses his confidence in the new administration.

1. The first part of the document is a title page. It contains the title "The History of the County of York" and the author's name "John Smith".

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

[illegible]

PERIOD OF RECORD: 75-13
MONTH: AUG HOURS (LST): 2100-2300

VISITILITY IN HUNDREDS OF MEYERS

[illegible]

53.6	57.0	63.9	65.4	65.7	66.2	66.2	67.0	67.0	67.0
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[illegible][illegible]

56.4	57.0	64.6	66.8	67.0	67.5	68.1	68.3	68.3	68.6	68.6
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

USE	2500	81.3	91.8	95.9	96.8	97.6	98.2	98.4	98.4	98.7	98.7
USE	2500	75.3	81.3	91.8	95.9	96.8	97.6	98.2	98.4	98.4	98.7
USE	2000	77.8	83.3	93.8	97.9	98.8	99.6	99.8	99.9	99.9	99.9

[illegible]

	77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.7	99.7
GGE 1500	77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.7	99.7
GGE 1501	77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.7	99.7

10.66	1.066	1.066	6.066	6.066	6.066	2.066	1.066	1.066	4.066	6.066	4.066	7.066	0.066	10.066	2.066
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[illegible][illegible]

SE	700	77.0	82.1	92.9	97.1	98.2	98.9	99.5	99.7	99.7	100.0	100.0
SE	600	77.0	82.1	92.9	97.1	98.2	98.9	99.5	99.7	99.7	100.0	100.0

[illegible][illegible][illegible][illegible]

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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NOTES

1. **UNITED STATES OF AMERICA**
 2. **DEPARTMENT OF AGRICULTURE**
 3. **FOREST SERVICE**
 4. **WATER RESOURCES DIVISION**
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TOTAL NUMBER OF OBSERVATIONS: 379

GLOBAL CLIMATOLOGY BRANCH
USAFETAC

STATION NUMBER: 106420 STATION NAME: HANAU (AF GERMANY

PERIOD OF RECORD: 75-75
MONTH: AUG HOURS (LST): ALL

CEILING
VISIBILITY IN HUNDREDS OF METERS

[illegible][illegible][illegible][illegible]

44.1	45.9	51.9	52.9	52.8	55.1	55.3	55.7	55.7	55.8
45.2	47.0	53.0	54.2	54.4	54.8	55.0	55.2	55.3	55.4

[illegible][illegible]

57.1	59.4	67.4	69.0	69.2	69.8	70.0	70.3	70.4	70.5	70.6	70.6
57.0	60.1	68.1	69.7	70.0	70.5	70.8	71.0	71.2	71.3	71.3	71.4

55.7	55.7	55.8	55.8	55.9	55.9	56.0	56.0	56.1	56.1	56.2	56.2	56.3	56.3	56.4	56.4	56.5	56.5	56.6	56.6	56.7	56.7	56.8	56.8	56.9	56.9	57.0	57.0	57.1	57.1	57.2	57.2	57.3	57.3	57.4	57.4	57.5	57.5	57.6	57.6	57.7	57.7	57.8	57.8	57.9	57.9	58.0	58.0	58.1	58.1	58.2	58.2	58.3	58.3	58.4	58.4	58.5	58.5	58.6	58.6	58.7	58.7	58.8	58.8	58.9	58.9	59.0	59.0	59.1	59.1	59.2	59.2	59.3	59.3	59.4	59.4	59.5	59.5	59.6	59.6	59.7	59.7	59.8	59.8	59.9	59.9	60.0	60.0	60.1	60.1	60.2	60.2	60.3	60.3	60.4	60.4	60.5	60.5	60.6	60.6	60.7	60.7	60.8	60.8	60.9	60.9	61.0	61.0	61.1	61.1	61.2	61.2	61.3	61.3	61.4	61.4	61.5	61.5	61.6	61.6	61.7	61.7	61.8	61.8	61.9	61.9	62.0	62.0	62.1	62.1	62.2	62.2	62.3	62.3	62.4	62.4	62.5	62.5	62.6	62.6	62.7	62.7	62.8	62.8	62.9	62.9	63.0	63.0	63.1	63.1	63.2	63.2	63.3	63.3	63.4	63.4	63.5	63.5	63.6	63.6	63.7	63.7	63.8	63.8	63.9	63.9	64.0	64.0	64.1	64.1	64.2	64.2	64.3	64.3	64.4	64.4	64.5	64.5	64.6	64.6	64.7	64.7	64.8	64.8	64.9	64.9	65.0	65.0	65.1	65.1	65.2	65.2	65.3	65.3	65.4	65.4	65.5	65.5	65.6	65.6	65.7	65.7	65.8	65.8	65.9	65.9	66.0	66.0	66.1	66.1	66.2	66.2	66.3	66.3	66.4	66.4	66.5	66.5	66.6	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.1	67.2	67.2	67.3	67.3	67.4	67.4	67.5	67.5	67.6	67.6	67.7	67.7	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.1	68.2	68.2	68.3	68.3	68.4	68.4	68.5	68.5	68.6	68.6	68.7	68.7	68.8	68.8	68.9	68.9	69.0	69.0	69.1	69.1	69.2	69.2	69.3	69.3	69.4	69.4	69.5	69.5	69.6	69.6	69.7	69.7	69.8	69.8	69.9	69.9	70.0	70.0	70.1	70.1	70.2	70.2	70.3	70.3	70.4	70.4	70.5	70.5	70.6	70.6	70.7	70.7	70.8	70.8	70.9	70.9	71.0	71.0	71.1	71.1	71.2	71.2	71.3	71.3	71.4	71.4	71.5	71.5	71.6	71.6	71.7	71.7	71.8	71.8	71.9	71.9	72.0	72.0	72.1	72.1	72.2	72.2	72.3	72.3	72.4	72.4	72.5	72.5	72.6	72.6	72.7	72.7	72.8	72.8	72.9	72.9	73.0	73.0	73.1	73.1	73.2	73.2	73.3	73.3	73.4	73.4	73.5	73.5	73.6	73.6	73.7	73.7	73.8	73.8	73.9	73.9	74.0	74.0	74.1	74.1	74.2	74.2	74.3	74.3	74.4	74.4	74.5	74.5	74.6	74.6	74.7	74.7	74.8	74.8	74.9	74.9	75.0	75.0	75.1	75.1	75.2	75.2	75.3	75.3	75.4	75.4	75.5	75.5	75.6	75.6	75.7	75.7	75.8	75.8	75.9	75.9	76.0	76.0	76.1</
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Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
1950	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1951	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1952	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1953	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1954	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1955	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1956	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1957	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1958	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1959	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4
1960	65.0	67.4	76.0	77.7	70.0	78.6	79.1	79.3	79.3	79.4	79.4

SE	3500	73.6	76.3	85.0	88.1	89.2	89.4	89.7	89.9	90.0	90.0 ⁽¹⁾	90.0	90.1	90.1
SE	3020	--	76.1	70.2	89.1	91.7	91.9	93.2	93.4	93.7	93.7	93.7	93.7	93.9

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																												
1960	16.8	18.7	20.2	22.0	23.2	24.5	25.7	26.7	27.5	28.2	28.8	29.3	29.7	30.0	30.2	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.7	54.8	54.9	55.0	55.1	55.2	5

	77.6	80.5	91.1	93.8	94.2	95.4	95.6	95.9	96.2	96.2	96.3	96.4	96.4	96.4
5E 2030														
E	77.6	80.6	91.5	94.5	94.8	95.8	96.1	96.5	96.7	96.8	96.8	96.8	96.8	96.8

USE	1500	77.9	80.9	92.0	94.9	95.3	96.6	96.9	97.3	97.5	97.7	97.8	97.8	97.9
USE	1500	77.9	80.9	92.0	94.9	95.3	96.6	96.9	97.3	97.5	97.7	97.8	97.8	97.9

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Year	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989				
SE	9301	77.9	81.0	92.3	95.5	95.9	97.4	97.8	98.2	98.5	98.6	98.7	98.7	98.8	98.9
SE	8801	77.8	81.6	93.7	97.2	97.7	98.2	98.5	98.7	98.8	98.9	99.0	99.1	99.2	99.3

Year	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
SE	77.9	81.0	82.3	85.6	86.0	87.6	88.0	88.4	88.7	88.9	88.9	89.0	89.1
SE	77.9	81.0	82.3	85.6	86.0	87.6	88.0	88.4	88.7	88.9	88.9	89.0	89.1

[illegible]

SE	400	77.9	81.0	92.3	95.6	96.0	97.0	98.2	98.6	99.1	99.2	99.3	99.4	99.4	99.5
SE	400	77.9	81.0	92.3	95.6	96.0	97.0	98.2	98.6	99.1	99.2	99.3	99.4	99.4	99.5

[illegible][illegible]

TOTAL NUMBER OF OBSERVATIONS: 3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 75-85
MONTH: SEP HOURS(LST): 0600-0800

		VISIBILITY IN HUNDREDS OF METERS																	
CEILING		GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE		
IN	FEET	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0		
.....																			
NO CEIL		15.3	16.8	24.8	20.6	28.8	30.9	32.3	32.5	35.0	35.9	36.8	36.9	38.1	38.3	38.7			
GE 20000		15.3	18.1	26.7	30.7	30.9	33.5	35.3	35.5	38.4	39.3	40.4	40.5	42.0	42.1	42.6			
GE 18000		16.5	18.4	27.0	31.2	31.3	34.0	35.9	36.1	39.0	39.9	40.9	41.1	42.6	42.7	43.3			
GE 16000		16.5	18.4	27.0	31.2	31.3	34.0	35.9	36.1	39.5	40.4	41.4	41.5	43.0	43.2	43.8			
GE 14000		16.5	18.5	27.3	31.6	31.8	34.4	36.4	36.5	39.9	40.8	41.8	42.0	43.5	43.6	44.2			
GE 12000		15.5	18.5	27.6	32.0	32.2	35.3	37.4	37.5	40.9	41.8	42.9	43.0	44.8	45.0	45.5			
GE 10000		17.8	20.2	29.4	34.0	34.1	37.2	39.3	39.5	43.0	43.9	45.0	45.1	46.9	47.0	47.9			
GE 9000		19.8	21.2	31.5	36.4	36.5	39.8	41.8	42.0	45.5	46.4	47.5	47.6	49.4	49.6	50.4			
GE 8000		21.7	24.2	36.5	41.7	41.8	45.4	47.6	47.8	51.6	52.5	53.6	53.7	55.3	55.6	56.5			
GE 7000		22.7	25.5	39.2	44.5	44.7	48.8	51.2	51.3	55.3	56.2	57.3	57.4	59.2	59.3	60.2			
GE 6000		23.4	26.3	40.1	45.4	45.5	49.7	52.1	52.2	56.2	57.1	58.2	58.3	60.1	60.2	61.1			
GE 5000		24.8	27.7	42.1	47.9	48.1	52.7	55.6	55.8	59.9	60.8	61.9	62.2	63.9	64.1	65.0			
GE 4500		27.3	30.7	45.8	51.8	51.9	56.5	59.6	59.9	64.1	65.0	66.0	66.3	68.1	68.2	69.0			
GE 4000		31.6	35.3	52.1	58.6	59.8	64.5	68.4	68.7	72.8	73.9	74.9	75.2	77.0	77.2	78.0			
GE 3500		32.5	36.2	53.6	60.8	62.0	66.8	70.8	71.1	75.2	76.3	77.3	77.6	79.4	79.5	80.4			
GE 3000		35.3	39.3	57.0	64.7	66.0	70.9	75.2	75.5	79.8	80.9	81.9	82.3	84.1	84.4	85.3			
GE 2500		35.4	40.4	58.3	66.2	67.5	72.6	77.2	77.4	81.9	82.9	84.0	84.4	86.4	86.5	87.4			
GE 2000		38.9	43.2	61.7	69.7	71.2	76.4	81.0	81.3	85.8	86.8	87.8	88.3	90.2	90.4	91.2			
GE 1800		39.0	43.2	61.7	69.7	71.2	76.4	81.0	81.3	85.8	86.8	87.8	88.3	90.2	90.4	91.2			
GE 1500		39.0	43.5	62.5	70.5	72.1	77.3	81.9	82.3	87.5	88.6	89.6	90.1	92.0	92.1	93.0			
GE 1200		39.0	43.5	62.5	70.5	72.1	77.3	81.9	82.3	87.5	88.6	89.6	90.1	92.0	92.1	93.0			
GE 1000		39.0	43.5	62.6	70.6	72.3	77.4	82.0	82.5	87.7	88.7	89.8	90.2	92.1	92.4	93.3			
GE 900		39.0	43.6	62.8	71.1	72.7	77.9	82.5	82.9	88.7	89.8	90.8	91.2	93.3	93.5	94.4			
GE 800		39.0	43.6	62.8	71.1	72.7	78.0	82.6	83.1	89.0	90.2	91.2	91.7	93.8	93.9	94.8			
GE 700		39.0	43.6	62.8	71.1	72.8	78.2	82.8	83.2	89.2	90.4	91.4	91.8	93.9	94.1	95.0			
GE 600		39.0	43.6	62.8	71.1	72.8	78.2	82.8	83.2	89.3	90.5	91.5	92.0	94.2	94.4	95.3			
GE 500		39.0	43.6	62.8	71.1	72.8	78.2	82.9	83.5	89.8	91.2	92.3	92.7	95.3	95.5	96.4			
GE 400		39.0	43.6	62.8	71.1	72.8	78.2	82.9	83.5	89.8	91.2	92.3	92.7	95.3	95.5	96.6			
GE 300		39.0	43.6	62.8	71.1	72.8	78.2	82.9	83.5	89.8	91.2	92.3	92.7	95.3	95.5	96.6			
GE 200		39.2	43.8	62.9	71.2	73.0	78.3	83.4	84.0	90.5	92.1	93.2	93.8	96.4	96.7	97.6			
GE 100		39.2	43.8	62.9	71.2	73.0	78.3	83.5	84.1	90.7	92.3	93.3	94.1	96.7	97.5	98.4			
GE 0		39.2	43.8	62.9	71.2	73.0	78.3	83.5	84.1	90.7	92.3	93.3	94.1	96.7	97.6	100.0			

TOTAL NUMBER OF OBSERVATIONS: 674

1. The first part of the document is a title page. It contains the title of the document, the author's name, and the date of the document. The title is "The History of the United States of America". The author is "John Adams". The date is "1776".

MONTH: JAN MONTH: SEP MONTH: NOV MONTH: DEC

Year	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

[illegible]

SE	16000	27.4	30.8	41.0	44.2	45.0	45.4	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0
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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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78.7	78.6	78.5	78.0	78.0	77.7	77.6	77.3	76.1	71.4	71.3	65.8	50.7	44.3	35.5
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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3	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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	700	86.6	93.3	94.9	95.5	96.2	96.9	97.1	97.2	97.5	97.8	98.0
SE	700	86.6	93.3	94.9	95.5	96.2	96.9	97.1	97.2	97.5	97.8	98.0

5001	53.6	60.8	78.9	86.3	86.5	93.7	95.3	96.7	97.4	97.5	97.7	98.3	98.5	98.7
5002	53.6	60.8	78.9	86.3	86.5	93.7	95.3	96.7	97.4	97.5	97.7	98.3	98.5	98.7

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SUBJECT: _____

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side.]

W:ATHER SERVICE/MAC

1500 11/11/2011

[illegible]

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TOTAL NUMBER OF OBSERVATIONS: 664

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1500-1700

CEILING		VISIBILITY IN HUNDREDS OF METERS																	
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	160	90	80	60	48	40	32	24	20	16	12	10	8	5	4				
NO CEIL	34.0	34.4	37.6	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	38.0	38.0	38.0
GE 20000	40.5	41.1	45.5	45.8	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 18000	40.8	41.5	45.8	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 16000	40.8	41.5	45.8	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 14000	41.0	41.6	45.9	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 12000	43.4	44.0	48.3	48.5	48.5	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
GE 10000	45.3	45.9	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 9000	47.4	48.0	52.8	53.1	53.1	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 8000	54.2	54.9	60.4	60.8	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 7000	56.5	57.6	64.0	64.3	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 6000	57.1	58.5	65.4	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 5000	59.8	61.6	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 4500	62.7	64.6	72.2	73.0	73.0	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 4000	68.7	71.5	80.2	81.3	81.3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 3500	74.6	77.7	87.4	88.7	88.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 3000	73.9	82.1	93.1	94.4	94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 2500	80.4	83.6	94.6	96.5	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 2000	81.5	84.8	96.2	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1800	81.5	84.8	96.2	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1500	81.7	85.0	96.3	98.9	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1200	81.7	85.0	96.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000	81.7	85.0	96.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800	81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 300	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 200	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 100	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 0	81.7	85.2	96.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS: 627

STATION NUMBER: 106425 STATION NAME: HAVAU AAF GERMANY
PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(1ST): 1000-2000

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS: 15

.....VSTABILITY IN HUNDREDS OF METERS.....

[illegible][illegible]

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448
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6E 10000	46.3	48.3	55.5	56.7	56.7	56.8	57.0	57.0	57.0	57.0	57.0	57.0
6E 9000	47.9	49.9	57.8	59.0	59.0	59.1	59.3	59.3	59.3	59.3	59.3	59.3
6E 8000	52.6	54.9	64.6	65.7	65.9	66.2	66.4	66.4	66.4	66.4	66.4	66.4
6E 7000	54.9	57.7	66.0	69.4	69.5	69.9	70.0	70.0	70.0	70.0	70.0	70.0
6E 6000	55.0	58.8	69.2	70.8	71.0	71.3	71.5	71.5	71.5	71.5	71.5	71.5

GE	5000	60.3	63.3	73.8	75.5	75.6	76.4	76.6	76.6	76.6	76.6	76.6
GE	4500	62.8	65.9	77.9	79.4	79.6	80.4	80.6	80.6	80.6	80.6	80.6
GE	4000	67.9	71.2	83.5	85.5	85.7	86.7	87.0	87.0	87.0	87.0	87.0
GE	3500	71.3	74.8	86.1	90.8	90.9	92.1	92.4	92.4	92.4	92.4	92.4

[illegible]

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2
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	TOTAL NUMBER OF OBSERVATIONS:	607
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STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY
PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 2100-2300

STATION NUMBER: 106429 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85

PERIOD OF RECORD: 76-83
MONTH: SEP HOURS (LST): 2100-2300

..... VISIBILITY IN HUNDREDS OF METERS

[illegible][illegible]

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
66	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100										

6E 18000	38.5	41.8	49.5	52.2	52.5	52.5	52.7	52.7	53.0	53.0
6E 16000	38.5	41.8	49.5	52.2	52.5	52.5	52.7	52.7	53.0	53.0

6E 14000	38.5	41.8	49.5	52.2	52.5	52.5	52.5	52.7	52.7	53.0	53.0
6E 14000	38.5	41.8	49.5	52.2	52.5	52.5	52.5	52.7	52.7	53.0	53.0
6E 14000	38.5	41.8	49.5	52.2	52.5	52.5	52.5	52.7	52.7	53.0	53.0
6E 14000	38.5	41.8	49.5	52.2	52.5	52.5	52.5	52.7	52.7	53.0	53.0

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	7090	7080	7070	7060	7050	7040	7030	7020	7010	7000	6990	6980	6970	6960	6950	6940	6930	6920	6910	6900	6890	6880	6870	6860	6850	6840	6830	6820	6810	6800	6790	6780	6770	6760	6750	6740	6730	6720	6710	6700	6690	6680	6670	6660	6650	6640	6630	6620	6610	6600	6590	6580	6570	6560	6550	6540	6530	6520	6510	6500	6490	6480	6470	6460	6450	6440	6430	6420	6410	6400	6390	6380	6370	6360	6350	6340	6330	6320	6310	6300	6290	6280	6270	6260	6250	6240	6230	6220	6210	6200	6190	6180	6170	6160	6150	6140	6130	6120	6110	6100	6090	6080	6070	6060	6050	6040	6030	6020	6010	6000	5990	5980	5970	5960	5950	5940	5930	5920	5910	5900	5890	5880	5870	5860	5850	5840	5830	5820	5810	5800	5790	5780	5770	5760	5750	5740	5730	5720	5710	5700	5690	5680	5670	5660	5650	5640	5630	5620	5610	5600	5590	5580	5570	5560	5550	5540	5530	5520	5510	5500	5490	5480	5470	5460	5450	5440	5430	5420	5410	5400	5390	5380	5370	5360	5350	5340	5330	5320	5310	5300	5290	5280	5270	5260	5250	5240	5230	5220	5210	5200	5190	5180	5170	5160	5150	5140	5130	5120	5110	5100	5090	5080	5070	5060	5050	5040	5030	5020	5010	5000	4990	4980	4970	4960	4950	4940	4930	4920	4910	4900	4890	4880	4870	4860	4850	4840	4830	4820	4810	4800	4790	4780	4770	4760	4750	4740	4730	4720	4710	4700	4690	4680	4670	4660	4650	4640	4630	4620	4610	4600	4590	4580	4570	4560	4550	4540	4530	4520	4510	4500	4490	4480	4470	4460	4450	4440	4430	4420	4410	4400	4390	4380	4370	4360	4350	4340	4330	4320	4310	4300	4290	4280	4270	4260	4250	4240	4230	4220	4210	4200	4190	4180	4170	4160	4150	4140	4130	4120	4110	4100	4090	4080	4070	4060	4050	4040	4030	4020	4010	4000	3990	3980	3970	3960	3950	3940	3930	3920	3910	3900	3890	3880	3870	3860	3850	3840	3830	3820	3810	3800	3790	3780	3770	3760	3750	3740	3730	3720	3710	3700	3690	3680	3670	3660	3650	3640	3630	3620	3610	3600	3590	3580	3570	3560	3550	3540	3530	3520	3510	3500	3490	3480	3470	3460	3450	3440	3430	3420	3410	3400	3390	3380	3370	3360	3350	3340	3330	3320	3310	3300	3290	3280	3270	3260	3250	3240	3230	3220	3210	3200	3190	3180	3170	3160	3150	3140	3130	3120	3110	3100	3090	3080	3070	3060	3050	3040	3030	3020	3010	3000	2990	2980	2970	2960	2950	2940	2930	2920	2910	2900	2890	2880	2870	2860	2850	2840	2830	2820	2810	2800	2790	2780	2770	2760	2750	2740	2730	2720	2710	2700	2690	2680	2670	2660	2650	2640	2630	2620	2610	2600	2590	2580	2570	2
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GE	12001	67.6	72.7	91.8	97.3	97.5	97.5	97.5	98.4	98.6	98.6	99.2	99.5	99.5
GE	12001	67.6	72.7	91.8	97.3	97.5	97.5	97.5	98.4	98.6	98.6	99.2	99.5	99.5

GF 1070	67.8	72.7	91.8	97.5	97.5	97.8	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7	99.7
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GE	67.8	72.7	91.8	97.5	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7
GE	67.8	72.7	91.8	97.5	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7

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GE	500	67.8	72.7	91.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE	500	67.8	72.7	91.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0

GE	4301	67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0
35	3301	67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0

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TOTAL NUMBER OF OBSERVATIONS: 366

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TOTAL NUMBER OF OBSERVATIONS: 366

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): ALL

VISIBILITY IN HUNDREDS OF METERS

CEILING 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	27.8	29.5	35.5	36.9	36.9	38.0	38.4	38.5	39.0	39.2	39.3	39.4	39.6	39.7	39.8	
GE 20000	32.5	34.4	41.1	43.0	43.0	44.3	44.8	44.9	45.5	45.8	46.0	46.0	46.3	46.4	46.5	
GE 18000	32.7	34.7	41.4	43.4	43.4	44.7	45.3	45.4	46.0	46.2	46.4	46.4	46.7	46.8	46.9	
GE 16000	32.8	34.7	41.5	43.5	43.5	44.7	45.3	45.4	46.1	46.3	46.5	46.5	46.8	46.9	47.0	
GE 14000	32.8	34.8	41.7	43.7	43.7	45.0	45.5	45.7	46.3	46.6	46.8	46.8	47.1	47.2	47.3	
GE 12000	34.2	36.1	43.2	45.3	45.3	46.7	47.3	47.4	48.1	48.3	48.5	48.5	48.9	49.0	49.1	
GE 10000	36.1	38.2	45.7	47.9	48.0	49.4	50.0	50.1	50.8	51.1	51.3	51.3	51.7	51.8	51.9	
GE 9000	38.0	40.2	48.3	50.5	50.6	52.0	52.6	52.7	53.4	53.7	53.9	53.9	54.3	54.4	54.6	
GE 8000	42.9	45.4	55.0	57.5	57.6	59.0	59.7	59.8	60.6	60.8	61.0	61.0	61.5	61.5	61.7	
GE 7000	44.9	47.8	58.3	61.9	61.1	62.8	63.4	63.6	64.4	64.6	64.8	64.8	65.2	65.3	65.5	
GE 6000	45.7	48.8	59.4	62.2	62.2	64.0	64.7	64.8	65.6	65.8	66.0	66.0	66.5	66.5	66.7	
GE 5000	48.6	51.8	62.9	66.0	66.1	68.1	68.9	69.0	69.8	70.1	70.3	70.3	70.7	70.8	71.0	
GE 4500	50.9	54.4	66.2	69.4	69.5	71.5	72.3	72.4	73.3	73.5	73.7	73.8	74.2	74.3	74.5	
GE 4000	55.3	59.2	72.1	75.7	76.0	78.1	79.1	79.3	80.1	80.4	80.6	80.7	81.1	81.2	81.4	
GE 3500	58.8	62.8	76.4	80.6	80.9	83.0	84.1	84.2	85.1	85.4	85.5	85.6	86.0	86.1	86.3	
GE 3000	62.3	66.7	81.2	85.5	85.9	88.3	89.5	89.6	90.6	90.9	91.1	91.2	91.6	91.7	91.9	
GE 2500	63.1	67.5	82.2	87.0	87.3	89.8	91.1	91.3	92.3	92.6	92.8	92.9	93.3	93.4	93.6	
GE 2000	64.4	69.0	84.1	89.0	89.4	92.1	93.4	93.5	94.6	95.0	95.1	95.3	95.7	95.8	96.0	
GE 1800	64.4	69.0	84.1	89.2	89.5	92.2	93.5	93.7	94.9	95.2	95.4	95.5	96.0	96.1	96.2	
GE 1500	64.6	69.3	84.7	89.8	90.2	92.9	94.2	94.4	95.7	96.1	96.2	96.4	96.9	96.9	97.1	
GE 1200	64.6	69.4	84.9	90.1	90.5	93.2	94.5	94.8	96.1	96.4	96.6	96.8	97.2	97.3	97.5	
GE 1000	64.6	69.4	85.1	90.3	90.7	93.5	94.8	95.0	96.4	96.7	96.9	97.1	97.5	97.6	97.8	
GE 900	64.6	69.4	85.1	90.4	90.8	93.6	95.0	95.2	96.6	97.0	97.2	97.4	97.8	97.9	98.1	
GE 800	64.6	69.4	85.1	90.5	90.9	93.8	95.2	95.4	96.9	97.2	97.5	97.7	98.1	98.2	98.4	
GE 700	64.6	69.4	85.1	90.5	90.9	93.9	95.3	95.5	97.0	97.4	97.6	97.8	98.2	98.3	98.5	
GE 600	64.6	69.4	85.1	90.5	90.9	94.0	95.3	95.6	97.1	97.5	97.7	97.9	98.4	98.5	98.7	
GE 500	64.6	69.5	85.2	90.5	91.0	94.1	95.5	95.8	97.3	97.8	98.0	98.2	98.8	98.9	99.1	
GE 400	64.6	69.5	85.2	90.5	91.0	94.1	95.5	95.8	97.4	97.8	98.0	98.2	98.9	99.0	99.2	
GE 300	64.6	69.5	85.2	90.5	91.0	94.1	95.6	95.8	97.4	97.9	98.1	98.3	99.0	99.2	99.4	
GE 200	64.7	69.5	85.2	90.5	91.0	94.2	95.6	95.8	97.5	98.0	98.2	98.5	99.2	99.4	99.7	
GE 100	64.7	69.5	85.2	90.5	91.0	94.2	95.6	95.9	97.5	98.0	98.2	98.5	99.3	99.5	99.9	
GE 0	64.7	69.5	85.2	90.6	91.0	94.2	95.6	95.9	97.5	98.0	98.2	98.5	99.3	99.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 3625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(IST): 0600-0800

CEILING		VISIBILITY IN HUNDREDS OF METERS																			
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	
		160	140	120	100	80	60	48	40	32	24	20	16	12	10	8	5	4	0		
NO CEIL		11.5	12.3	17.3	19.9	20.0	22.1	23.1	23.1	24.2	24.4	24.4	24.8	26.0	26.3	28.1					
GE 20000		12.9	14.2	20.8	23.8	24.0	26.9	27.9	27.9	29.2	29.4	29.4	30.0	31.3	31.7	33.8					
GE 18000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0					
GE 16000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0					
GE 14000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0					
GE 12000		13.1	14.4	21.5	24.4	24.6	27.5	28.5	28.5	29.8	30.0	30.0	30.6	31.9	32.3	34.4					
GE 10000		14.0	15.2	23.3	26.5	26.7	29.6	30.6	30.6	31.9	32.1	32.1	32.7	34.0	34.4	36.5					
GE 9000		15.6	16.9	25.0	28.1	28.3	31.3	32.3	32.3	33.5	33.8	33.8	34.4	35.6	36.0	38.1					
GE 8000		18.1	19.4	28.1	31.5	31.7	34.6	35.6	35.6	36.9	37.1	37.1	37.7	39.0	39.4	41.5					
GE 7000		18.8	20.4	29.8	33.3	33.5	36.9	37.9	37.9	39.4	39.6	39.6	40.2	41.5	41.9	44.0					
GE 6000		19.2	20.8	31.3	34.8	35.0	38.3	39.4	39.4	41.0	41.3	41.3	41.9	43.1	43.5	45.6					
GE 5000		20.6	22.9	33.5	37.3	37.5	40.8	41.9	41.9	43.5	43.8	43.8	44.0	45.8	46.3	48.3					
GE 4500		21.7	24.2	35.2	39.0	39.2	42.5	43.5	43.5	45.2	45.4	45.4	45.6	47.5	47.9	50.0					
GE 4000		24.4	27.3	38.8	42.9	43.1	46.7	47.7	47.7	49.4	49.6	49.6	49.8	50.4	51.7	54.2					
GE 3500		27.1	30.4	43.3	48.3	48.5	53.1	54.2	54.4	56.5	56.7	56.7	57.1	57.7	59.0	61.5					
GE 3000		28.5	32.3	46.0	51.7	52.5	57.5	58.5	58.8	61.3	61.5	61.5	61.9	62.5	64.2	66.9					
GE 2500		30.0	34.2	49.6	55.2	56.3	62.1	63.5	63.8	66.7	67.1	67.1	67.5	68.1	69.8	70.2					
GE 2000		31.0	36.3	53.1	59.2	60.4	66.3	67.7	68.1	71.3	71.9	71.9	72.3	72.9	74.6	75.0					
GE 1800		31.0	36.5	53.3	59.4	60.6	66.7	68.3	69.0	72.1	72.9	72.9	73.3	74.0	75.6	76.0					
GE 1500		33.5	39.0	57.1	63.3	64.6	70.8	72.5	73.3	76.5	77.3	77.3	77.7	78.3	80.0	82.7					
GE 1200		34.2	39.6	58.8	65.2	66.5	73.1	75.0	75.8	79.0	79.8	79.8	80.6	81.3	82.9	85.6					
GE 1000		34.2	39.6	60.8	67.3	68.5	75.6	77.7	78.5	82.1	82.9	82.9	83.8	84.4	86.0	89.0					
GE 900		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.7	83.5	83.5	84.4	85.0	86.7	89.6					
GE 800		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.7	83.5	83.5	84.4	85.0	86.7	89.6					
GE 700		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.7	83.5	83.5	84.4	85.0	86.7	89.6					
GE 600		34.2	39.6	60.8	67.3	68.5	75.8	78.3	79.2	83.1	84.0	84.0	84.8	85.4	87.1	90.2					
GE 500		34.2	39.6	60.8	67.3	68.5	76.5	79.4	80.2	84.2	85.0	85.0	85.8	86.5	88.5	91.9					
GE 400		34.2	39.6	61.3	67.7	69.0	76.9	79.8	81.0	85.0	85.8	85.8	86.7	87.3	89.4	93.1					
GE 300		34.2	39.6	61.3	67.7	69.0	76.9	79.8	81.0	85.2	86.0	86.0	86.9	88.1	90.2	95.0					
GE 200		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	86.3	87.3	89.0	91.3	96.7					
GE 100		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	86.3	87.3	89.0	91.5	97.2					
GE 0		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	86.3	87.3	89.0	91.5	97.2					

TOTAL NUMBER OF OBSERVATIONS: 490

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106425 STATION NAME: HANAU AFB GERMANY

PERIOD OF RECORD: 76-88
MONTH: OCT HOURS (LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 100	GE 90	GE 80	GE 70	GE 60	GE 50	GE 40	GE 30	GE 20	GE 16	GE 12	GE 10	GE 8	GE 6	GE 4	GE 0
NO CEIL	28.9	30.0	30.1	39.1	40.0	41.4	42.3	42.7	43.0	43.2	43.2	43.2	43.4	43.4	43.4	43.4
GE 20000	31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8	48.8
GE 18000	31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8	48.8
GE 16000	31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8	48.8
GE 14000	32.0	34.3	41.6	44.8	45.7	47.1	48.0	48.4	48.8	48.9	48.9	48.9	49.1	49.1	49.1	49.1
GE 12000	32.5	35.0	42.7	45.9	46.8	48.2	49.1	49.5	49.8	50.0	50.0	50.0	50.2	50.2	50.2	50.2
GE 10000	33.9	36.4	44.6	47.9	48.8	50.2	51.1	51.4	51.8	52.0	52.0	52.0	52.1	52.1	52.1	52.1
GE 9000	34.5	37.0	45.2	48.4	49.3	50.7	51.6	52.0	52.3	52.5	52.5	52.5	52.7	52.7	52.7	52.7
GE 8000	36.8	39.3	48.0	51.3	52.1	53.8	54.6	55.0	55.4	55.5	55.5	55.5	55.7	55.7	55.7	55.7
GE 7000	39.6	42.3	52.0	55.2	56.1	57.7	58.6	58.9	59.3	59.8	59.8	59.8	59.6	59.6	59.6	59.6
GE 6000	40.5	43.2	52.9	56.1	57.0	58.6	59.5	59.8	60.2	60.4	60.4	60.4	60.3	60.3	60.3	60.3
GE 5000	43.0	45.9	56.1	59.3	60.4	62.0	62.9	63.2	63.9	64.1	64.1	64.1	64.3	64.3	64.3	64.3
GE 4500	44.3	47.5	57.7	60.9	62.0	63.6	64.6	64.8	65.7	65.9	65.9	65.9	66.1	66.1	66.1	66.1
GE 4000	49.1	52.5	64.5	68.0	69.1	71.6	72.9	73.2	74.1	74.3	74.3	74.3	74.5	74.5	74.5	74.5
GE 3500	52.1	55.9	68.6	72.1	73.2	75.7	77.0	77.3	78.1	78.4	78.4	78.4	78.6	78.6	78.6	78.6
GE 3000	55.0	58.9	73.0	77.3	78.4	80.9	82.1	82.5	83.4	83.6	83.6	83.6	83.8	83.8	83.8	83.8
GE 2500	56.6	60.7	75.7	81.1	82.1	84.8	86.1	86.4	87.3	87.5	87.5	87.5	87.7	87.7	87.7	87.7
GE 2000	58.2	62.3	77.9	84.1	85.2	88.0	89.8	90.2	91.1	91.3	91.3	91.3	91.4	91.4	91.4	91.4
GE 1800	58.8	62.9	78.8	85.0	86.1	88.9	90.7	91.1	92.0	92.1	92.1	92.1	92.3	92.3	92.3	92.3
GE 1500	60.0	64.1	80.9	88.0	89.3	92.7	94.6	95.0	95.9	96.1	96.1	96.1	96.3	96.3	96.3	96.3
GE 1200	60.0	64.1	81.6	89.1	90.7	94.5	96.4	96.8	97.9	98.0	98.0	98.0	98.2	98.2	98.2	98.2
GE 1000	60.0	64.1	81.0	89.3	90.9	94.6	96.8	97.1	98.2	98.4	98.4	98.4	98.6	98.6	98.6	98.6
GE 900	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 800	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 700	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 600	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 500	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 400	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 300	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 200	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 100	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3
GE 0	60.0	64.1	82.1	89.6	91.3	95.0	97.8	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS: 500

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/7HAC

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 16-77-10-81
 MONTH: OCT HOURS: 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
NO CEIL	27.6	32.9	32.9	39.5	42.1	44.7	46.2	49.6	49.6	49.6	49.6	49.6
GE 20000	30.3	36.0	36.0	43.0	46.1	48.7	52.2	53.8	53.8	53.8	53.8	53.8
GE 18000	30.3	36.0	36.0	43.0	46.1	48.7	52.2	53.8	53.8	53.8	53.8	53.8
GE 16000	30.3	36.0	36.0	43.0	46.1	48.7	52.2	53.8	53.8	53.8	53.8	53.8
GE 14000	30.3	36.0	36.0	43.0	46.1	48.7	52.2	53.8	53.8	53.8	53.8	53.8
GE 12000	31.1	36.8	36.8	43.9	46.9	49.6	53.1	54.4	54.4	54.4	54.4	54.4
GE 10000	31.1	36.8	36.8	43.9	46.9	49.6	53.1	54.4	54.4	54.4	54.4	54.4
GE 9000	32.0	37.7	37.7	44.7	47.8	50.4	54.4	55.7	55.7	55.7	55.7	55.7
GE 8000	37.3	43.0	43.0	50.4	53.5	56.1	60.1	61.4	61.4	61.4	61.4	61.4
GE 7000	38.6	44.7	44.7	52.2	55.3	57.9	61.8	63.2	63.2	63.2	63.2	63.2
GE 6000	38.6	44.7	44.7	52.2	55.3	57.9	61.8	63.2	63.2	63.2	63.2	63.2
GE 5000	42.5	48.7	48.7	56.6	59.6	62.3	66.7	68.0	68.0	68.0	68.0	68.0
GE 4500	43.9	50.9	50.9	58.8	61.8	64.5	68.9	70.2	70.2	70.2	70.2	70.2
GE 4000	46.9	54.4	54.4	64.5	69.3	71.9	76.3	77.6	77.6	77.6	77.6	77.6
GE 3500	46.9	56.1	56.1	66.7	71.5	74.1	78.5	79.8	79.8	79.8	79.8	79.8
GE 3000	48.2	57.9	57.9	69.7	75.4	78.1	82.5	83.8	83.8	83.8	83.8	83.8
GE 2500	50.0	59.6	59.6	71.5	77.6	80.3	84.6	86.0	86.0	86.0	86.0	86.0
GE 2000	51.3	61.4	61.4	74.6	81.6	84.2	88.6	89.9	89.9	89.9	89.9	89.9
GE 1800	51.3	61.8	61.8	75.0	82.5	84.6	89.0	90.4	90.4	90.4	90.4	90.4
GE 1500	52.2	62.7	62.7	77.6	85.5	89.0	93.9	95.2	95.2	95.2	95.2	95.2
GE 1200	52.2	62.7	62.7	78.9	87.3	90.8	96.1	97.4	97.4	97.4	97.4	97.4
GE 1000	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 900	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 800	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 700	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 600	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 500	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 400	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 300	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 200	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE 100	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8
GE	52.2	62.7	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS: 220

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106423 STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 75-85
 MONTH: NOV HOURS(LST): 0600-0800

CEILINGS		VISIBILITY IN HUNDREDS OF METERS																	
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	UL	UL
		160	90	80	60	40	32	24	20	16	12	10	8	5	4	3	2		
NO CEIL		11.3	12.5	16.4	17.1	17.3	19.6	20.3	20.6	20.8	20.8	21.0	21.2	21.2	21.2	21.2	21.2		
GE 20000		11.5	12.9	17.6	18.7	19.2	21.5	22.4	22.6	23.1	23.1	23.1	23.6	23.6	23.6	23.6	23.6		
GE 18000		12.0	13.4	18.0	19.2	19.6	21.9	22.9	23.1	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6		
GE 16000		12.0	13.4	18.0	19.2	19.6	21.9	22.9	23.1	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6		
GE 14000		12.2	13.6	18.2	19.4	19.9	22.2	23.1	23.3	23.8	23.8	23.8	24.0	24.0	24.0	24.0	24.0		
GE 12000		12.5	14.1	18.7	20.1	20.6	22.9	23.8	24.0	24.5	24.5	24.5	24.7	24.7	24.7	24.7	24.7		
GE 10000		13.2	14.8	19.4	20.8	21.2	23.8	24.9	25.2	25.6	25.6	25.6	25.9	25.9	25.9	25.9	25.9		
GE 9000		13.9	15.5	20.3	21.7	22.2	24.7	25.9	26.1	26.6	26.6	26.6	26.8	26.8	26.8	26.8	26.8		
GE 8000		15.7	17.3	22.5	24.0	24.5	27.5	28.9	29.3	29.8	29.8	29.8	30.0	30.0	30.0	30.0	30.0		
GE 7000		17.1	18.9	24.7	26.1	26.6	29.6	30.9	31.4	31.9	31.9	31.9	32.1	32.1	32.1	32.1	32.1		
GE 6000		17.3	19.2	24.9	26.3	26.8	29.8	31.2	31.6	32.1	32.1	32.1	32.3	32.3	32.3	32.3	32.3		
GE 5000		18.7	21.0	27.5	29.3	30.0	33.0	34.4	34.9	35.3	35.3	35.3	35.8	35.8	35.8	35.8	35.8		
GE 4500		21.5	24.0	31.2	33.3	33.9	37.4	38.8	39.3	40.0	40.0	40.0	40.4	40.4	40.4	40.4	40.4		
GE 4000		25.4	28.6	36.3	39.0	39.7	43.4	44.8	45.3	46.2	46.2	46.2	46.7	46.7	46.7	46.7	46.7		
GE 3500		27.5	30.7	39.0	41.8	42.5	46.2	47.6	48.0	48.7	49.0	49.0	49.4	49.4	49.4	49.4	49.4		
GE 3000		31.6	35.3	44.6	48.0	48.7	52.7	54.3	54.7	55.9	56.1	56.1	56.6	56.6	56.6	56.6	56.6		
GE 2500		34.9	38.6	48.7	52.4	53.1	57.5	59.1	59.8	61.0	61.2	61.2	61.7	61.7	61.7	61.7	61.7		
GE 2000		39.5	43.6	55.4	59.1	59.8	65.1	67.0	67.7	68.8	69.1	69.1	69.5	69.5	69.5	69.5	69.5		
GE 1800		40.0	44.1	56.4	60.0	60.7	66.9	68.4	69.1	70.2	70.4	70.4	70.9	70.9	70.9	70.9	70.9		
GE 1500		43.6	48.0	61.9	66.1	66.7	72.7	75.1	76.0	77.1	77.4	77.4	77.8	77.8	77.8	77.8	77.8		
GE 1200		44.1	48.5	63.7	68.1	68.8	76.0	78.3	79.2	80.6	80.8	80.8	81.1	81.1	81.1	81.1	81.1		
GE 1000		44.1	48.5	64.7	69.7	70.4	78.1	81.3	82.7	84.5	84.8	84.8	85.0	85.2	85.2	85.2	85.2		
GE 900		44.3	49.0	66.3	71.6	72.3	79.9	83.1	84.5	86.8	87.3	87.3	87.8	87.8	87.8	87.8	87.8		
GE 800		44.3	49.0	66.7	72.3	73.0	80.6	84.3	85.7	88.5	88.9	88.9	89.1	89.4	89.4	89.4	89.4		
GE 700		44.3	49.0	66.7	72.3	73.0	80.6	84.3	85.7	88.5	88.9	88.9	89.1	89.4	89.4	89.4	89.4		
GE 600		44.3	49.0	66.7	72.3	73.0	80.6	84.3	85.7	88.5	88.9	88.9	89.1	89.4	89.4	89.4	89.4		
GE 500		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		
GE 400		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		
GE 300		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		
GE 200		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		
GE 100		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		
GE 0		44.3	49.0	66.7	72.3	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1	92.1		

TOTAL NUMBER OF OBSERVATIONS: 433

593

STATION NUMBER: 105420 STATION NAME: HAWAU AAF GERMANY
PERIOD OF RECORD: 76-85
MONTH: NOV. HOURS (LST): 1200-1400

[illegible]

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[illegible]

	18.5	20.2	24.6	26.7	26.8	26.9	27.0	27.3	27.5	27.7	27.9	28.1	28.3	28.5	28.7	28.9	29.1	29.3	29.5	29.7	29.9	30.1	30.3	30.5	30.7	30.9	31.1	31.3	31.5	31.7	31.9	32.1	32.3	32.5	32.7	32.9	33.1	33.3	33.5	33.7	33.9	34.1	34.3	34.5	34.7	34.9	35.1	35.3	35.5	35.7	35.9	36.1	36.3	36.5	36.7	36.9	37.1	37.3	37.5	37.7	37.9	38.1	38.3	38.5	38.7	38.9	39.1	39.3	39.5	39.7	39.9	40.1	40.3	40.5	40.7	40.9	41.1	41.3	41.5	41.7	41.9	42.1	42.3	42.5	42.7	42.9	43.1	43.3	43.5	43.7	43.9	44.1	44.3	44.5	44.7	44.9	45.1	45.3	45.5	45.7	45.9	46.1	46.3	46.5	46.7	46.9	47.1	47.3	47.5	47.7	47.9	48.1	48.3	48.5	48.7	48.9	49.1	49.3	49.5	49.7	49.9	50.1	50.3	50.5	50.7	50.9	51.1	51.3	51.5	51.7	51.9	52.1	52.3	52.5	52.7	52.9	53.1	53.3	53.5	53.7	53.9	54.1	54.3	54.5	54.7	54.9	55.1	55.3	55.5	55.7	55.9	56.1	56.3	56.5	56.7	56.9	57.1	57.3	57.5	57.7	57.9	58.1	58.3	58.5	58.7	58.9	59.1	59.3	59.5	59.7	59.9	60.1	60.3	60.5	60.7	60.9	61.1	61.3	61.5	61.7	61.9	62.1	62.3	62.5	62.7	62.9	63.1	63.3	63.5	63.7	63.9	64.1	64.3	64.5	64.7	64.9	65.1	65.3	65.5	65.7	65.9	66.1	66.3	66.5	66.7	66.9	67.1	67.3	67.5	67.7	67.9	68.1	68.3	68.5	68.7	68.9	69.1	69.3	69.5	69.7	69.9	70.1	70.3	70.5	70.7	70.9	71.1	71.3	71.5	71.7	71.9	72.1	72.3	72.5	72.7	72.9	73.1	73.3	73.5	73.7	73.9	74.1	74.3	74.5	74.7	74.9	75.1	75.3	75.5	75.7	75.9	76.1	76.3	76.5	76.7	76.9	77.1	77.3	77.5	77.7	77.9	78.1	78.3	78.5	78.7	78.9	79.1	79.3	79.5	79.7	79.9	80.1	80.3	80.5	80.7	80.9	81.1	81.3	81.5	81.7	81.9	82.1	82.3	82.5	82.7	82.9	83.1	83.3	83.5	83.7	83.9	84.1	84.3	84.5	84.7	84.9	85.1	85.3	85.5	85.7	85.9	86.1	86.3	86.5	86.7	86.9	87.1	87.3	87.5	87.7	87.9	88.1	88.3	88.5	88.7	88.9	89.1	89.3	89.5	89.7	89.9	90.1	90.3	90.5	90.7	90.9	91.1	91.3	91.5	91.7	91.9	92.1	92.3	92.5	92.7	92.9	93.1	93.3	93.5	93.7	93.9	94.1	94.3	94.5	94.7	94.9	95.1	95.3	95.5	95.7	95.9	96.1	96.3	96.5	96.7	96.9	97.1	97.3	97.5	97.7	97.9	98.1	98.3	98.5	98.7	98.9	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.7	100.9	101.1	101.3	101.5	101.7	101.9	102.1	102.3	102.5	102.7	102.9	103.1	103.3	103.5	103.7	103.9	104.1	104.3	104.5	104.7	104.9	105.1	105.3	105.5	105.7	105.9	106.1	106.3	106.5	106.7	106.9	107.1	107.3	107.5	107.7	107.9	108.1	108.3	108.5	108.7	108.9	109.1	109.3	109.5	109.7	109.9	110.1	110.3	110.5	110.7	110.9	111.1	111.3	111.5	111.7	111.9	112.1	112.3	112.5	112.7	112.9	113.1	113.3	113.5	113.7	113.9	114.1	114.3	114.5	114.7
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[illegible]

GE	9000	20.2	22.4	28.4	30.9	31.1	31.1	31.2	31.6	31.6
TE	8000	20.2	22.4	28.4	30.9	31.1	31.1	31.2	31.6	31.6

GE 60001	26.3	28.7	35.5	38.5	38.7	39.7	40.1	40.4	40.4	40
GE 60001	26.3	28.7	35.5	38.5	38.7	39.7	40.1	40.4	40.4	40

[illegible]

GE	3500	38.9	41.9	51.4	55.2	55.3	57.4	57.9	58.2	58.2	58.2
GE	3500	38.9	41.9	51.4	55.2	55.3	57.4	57.9	58.2	58.2	58.2

GE	25901	47.7	51.4	62.5	66.9	67.1	69.1	70.1	70.5	70.6
GE	25901	47.7	51.4	62.5	66.9	67.1	69.1	70.1	70.5	70.6

GE	1500	52.6	56.9	71.0	76.2	76.4	78.8	80.0	80.6	80.0	80
GE <td>1500</td> <td>52.6</td> <td>56.9</td> <td>71.0</td> <td>76.2</td> <td>76.4</td> <td>78.8</td> <td>80.0</td> <td>80.6</td> <td>80.0</td> <td>80</td>	1500	52.6	56.9	71.0	76.2	76.4	78.8	80.0	80.6	80.0	80

[illegible]

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																
1988	39	1008	55.3	60.6	76.3	86.1	86.4	90.7	92.5	93.2	93.7	93.9	94.0	94.1	94.2	94.3	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9	100.0	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0	102.1	102.2	102.3	102.4	102.5	102.6	102.7	102.8	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0	104.1	104.2	104.3	104.4	104.5	104.6	104.7	104.8	104.9	105.0	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0	107.1	107.2	107.3	107.4	107.5	107.6	107.7	107.8	107.9	108.0	108.1	108.2	108.3	108.4	108.5	108.6	108.7	108.8	108.9	109.0	109.1	109.2	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0	112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0	114.1	114.2	114.3	114.4	114.5	114.6	114.7	114.8	114.9	115.0	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0	119.1	119.2	119.3	119.4	119.5	119.6	119.7	119.8	119.9	120

92 6500
93 6500
94 6500
95 6500
96 6500
97 6500
98 6500
99 6500
100 6500

[illegible]

3E	100	55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96
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[illegible]

TOTAL NUMBER OF OBSERVATIONS: 589

1. The first step in the process of identifying a problem is to recognize that a problem exists. This involves gathering information about the situation and identifying the specific issue that needs to be addressed.

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 75-85
MONTH: NOV HOURS(LST): 1500-1700

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN FT 160 3E 90 80 60 48 40 32 24 20 16 12 10 8 5 4 0

NO CEIL 16.2 16.9 21.0 22.0 22.5 22.5 22.7 23.2 23.2 23.2 23.2 23.2 23.2 23.2 23.2

GE 20000 19.3 20.8 25.3 26.6 27.1 27.1 27.3 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8
GE 18000 20.1 21.7 26.3 27.6 28.2 28.2 28.3 28.8 28.8 28.8 28.8 28.8 28.8 28.8 28.8
GE 16000 20.1 21.7 26.3 27.6 28.2 28.2 28.3 28.8 28.8 28.8 28.8 28.8 28.8 28.8 28.8
GE 14000 20.3 21.8 26.5 27.8 28.3 28.3 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0
GE 12000 21.0 22.5 27.5 28.8 29.4 29.4 29.5 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0

GE 10000 21.8 23.4 28.8 30.2 30.9 30.9 31.1 31.6 31.6 31.6 31.6 31.6 31.6 31.6 31.6
GE 9000 22.9 24.4 29.9 31.2 31.9 31.9 32.1 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6
GE 8000 25.3 28.5 35.0 36.9 37.0 37.7 37.9 38.4 38.4 38.4 38.4 38.4 38.4 38.4 38.4
GE 7000 28.7 30.9 37.7 40.4 40.8 41.8 42.0 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5
GE 6000 29.5 31.7 38.6 41.3 41.6 42.8 43.0 43.5 43.5 43.5 43.5 43.5 43.5 43.5 43.5

GE 5000 31.2 33.8 42.2 44.9 45.2 46.6 46.8 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3
GE 4500 33.3 35.8 44.7 47.4 47.8 49.1 49.3 49.8 49.8 49.8 49.8 49.8 49.8 49.8 49.8
GE 4000 38.6 41.3 51.0 54.1 54.4 56.1 56.3 56.8 56.8 56.8 56.8 56.8 56.8 56.8 56.8
GE 3500 42.2 45.4 55.8 58.9 59.2 60.9 61.3 61.8 61.8 61.8 61.8 61.8 61.8 61.8 61.8
GE 3000 48.1 51.9 63.3 66.4 66.7 68.8 69.3 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8

GE 2500 51.2 54.9 66.9 70.0 70.3 72.4 72.5 72.9 73.4 73.4 73.4 73.4 73.4 73.4 73.4
GE 2000 55.6 59.6 72.7 76.1 76.5 78.5 79.2 79.7 80.2 80.2 80.2 80.2 80.2 80.2 80.2
GE 1800 56.3 60.2 73.7 77.1 77.5 79.5 80.2 80.7 81.2 81.2 81.2 81.2 81.2 81.2 81.2
GE 1500 56.8 60.9 75.8 79.7 80.0 82.1 82.8 83.3 83.8 83.8 83.8 83.8 83.8 83.8 83.8
GE 1200 57.2 61.4 76.7 80.9 81.3 84.1 84.5 84.7 85.2 85.2 85.2 85.2 85.2 85.2 85.2

GE 1000 57.8 62.3 80.7 85.8 86.2 88.9 89.8 90.4 91.0 91.0 91.0 91.0 91.0 91.0 91.0
GE 900 57.8 62.3 81.2 86.3 86.7 89.4 90.3 91.0 91.5 91.5 91.5 91.5 91.5 91.5 91.5
GE 800 58.0 62.5 81.6 87.0 87.7 90.8 91.6 92.3 92.8 92.8 92.8 92.8 92.8 92.8 92.8
GE 700 58.0 62.5 81.6 87.0 87.7 91.0 92.3 93.2 93.7 93.7 93.7 93.7 93.7 93.7 93.7
GE 600 58.0 62.5 81.6 87.2 87.9 91.5 93.2 94.4 95.1 95.1 95.1 95.1 95.1 95.1 95.1

GE 500 58.0 62.5 81.6 87.4 87.7 91.6 93.3 94.5 95.2 95.6 95.6 95.6 95.6 95.6 95.6
GE 400 58.0 62.5 81.7 87.7 88.4 92.0 93.7 94.9 95.7 96.1 96.1 96.1 96.1 96.1 96.1
GE 300 58.0 62.5 81.7 87.7 88.4 92.0 93.7 94.9 95.7 96.4 96.4 96.4 96.4 96.4 96.4
GE 200 58.0 62.5 81.7 87.7 88.4 92.0 93.7 94.9 95.7 96.4 96.4 96.4 96.4 96.4 96.4
GE 100 58.0 62.5 81.7 87.7 88.4 92.0 93.7 94.9 95.7 96.4 96.4 96.4 96.4 96.4 96.4

GE 0 58.0 62.5 81.7 87.7 88.4 92.0 93.7 94.9 95.7 96.4 96.4 96.4 96.4 96.4 96.4

TOTAL NUMBER OF OBSERVATIONS: 586

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1800-2000

CEILING

IN VISIBILITY IN HUNDREDS OF METERS

FEET 160 90 35 20 10 5 0

GE 1 160 90 35 20 10 5 0

NO CEIL 1 18.4 19.4 25.0 26.2 26.4 27.9 28.1 28.1 29.4 29.4 29.6 29.6 29.6 29.6

GE 20000 20.3 21.3 27.1 28.3 29.0 30.9 31.3 31.3 32.6 32.6 32.8 32.8 32.8 32.8

GE 19000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 18000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 17000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 16000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 15000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 14000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 13000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 12000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 11000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 10000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 9000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 8000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 7000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 6000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 5000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 4500 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 4000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 3500 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 3000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 2500 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 2000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1800 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1600 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1500 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1400 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1300 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1200 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1100 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 1000 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 900 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 800 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 700 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 600 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 500 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 400 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 300 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 200 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 100 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

GE 0 21.1 22.0 28.3 30.0 30.2 32.1 32.4 32.4 33.8 33.8 33.8 34.0 34.0 34.0

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GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 75-78, 80-85
 MONTH: NOV HOURS(LST): 2100-2300

CEILINGS		VISIBILITY IN HUNDREDS OF METERS																			
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	160	90	80	60	50	48	40	32	24	20	16	12	10	8	5	4	0				
NO CEIL	19.1	21.4	21.4	26.2	31.8	32.7	33.6	34.5	34.5	34.5	34.5	35.5	35.5	36.4	36.4	36.4	36.4				
GE 20000	19.5	22.3	22.3	29.1	33.2	34.1	35.0	35.9	35.9	36.4	36.4	37.3	37.3	37.3	38.2	38.2	38.2				
GE 19000	19.5	22.3	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	37.7	38.6	38.6	38.6				
GE 18000	19.5	22.3	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	37.7	38.6	38.6	38.6				
GE 17000	19.5	22.3	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	37.7	38.6	38.6	38.6				
GE 16000	19.5	22.3	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	37.7	38.6	38.6	38.6				
GE 15000	20.5	23.2	23.2	30.5	34.5	35.5	36.8	37.7	37.7	38.2	38.2	39.1	39.1	39.1	40.0	40.0	40.0				
GE 14000	20.9	23.6	23.6	30.9	35.0	35.9	37.3	38.2	38.2	38.6	38.6	39.5	39.5	39.5	40.5	40.5	40.5				
GE 13000	22.7	25.9	25.9	34.5	39.1	40.0	41.4	42.3	42.3	43.2	44.5	45.5	45.5	46.4	46.4	46.4	46.4				
GE 12000	25.5	28.6	28.6	38.6	43.2	44.1	45.5	46.4	46.4	47.3	48.6	49.5	49.5	51.4	51.4	51.4	51.4				
GE 11000	25.5	28.6	28.6	38.6	43.2	44.1	45.5	46.4	46.4	47.3	48.6	49.5	49.5	51.4	51.4	51.4	51.4				
GE 10000	27.7	30.9	30.9	41.8	46.8	47.7	49.1	50.0	50.9	52.3	52.3	53.2	53.2	55.0	55.0	55.0	55.0				
GE 9000	29.1	32.7	32.7	43.6	48.5	49.5	50.9	51.8	52.7	54.1	54.1	55.0	55.0	56.8	56.8	56.8	56.8				
GE 8000	34.5	38.6	38.6	49.5	55.0	56.4	58.6	59.5	60.5	61.0	61.8	62.7	62.7	64.5	64.5	64.5	64.5				
GE 7000	37.3	41.4	41.4	53.5	59.1	60.5	62.7	63.6	64.5	65.9	65.9	66.8	66.8	68.6	68.6	68.6	68.6				
GE 6000	40.9	46.8	46.8	59.5	67.3	68.6	70.9	71.8	73.2	75.0	75.0	75.9	75.9	77.7	77.7	77.7	77.7				
GE 5000	42.7	48.6	48.6	61.8	69.5	70.9	73.2	74.5	75.9	77.7	77.7	78.6	78.6	80.5	80.5	80.5	80.5				
GE 4000	46.4	52.3	52.3	65.5	74.1	75.5	77.7	79.5	80.9	82.7	82.7	83.6	83.6	85.5	85.5	85.5	85.5				
GE 3000	45.4	53.2	53.2	66.4	75.0	76.4	78.6	80.5	81.8	83.6	83.6	84.5	84.5	86.4	86.4	86.4	86.4				
GE 2000	46.4	53.2	53.2	66.4	75.0	76.4	78.6	80.5	82.7	84.5	84.5	85.5	85.5	87.3	87.3	87.3	87.3				
GE 1000	47.3	54.1	54.1	69.1	78.6	80.0	82.3	84.1	86.4	88.2	88.2	89.1	89.1	90.9	90.9	90.9	90.9				
GE 500	47.3	54.1	54.1	69.1	78.6	80.0	82.3	84.5	86.8	89.5	89.5	90.5	90.5	92.3	92.3	92.3	92.3				
GE 400	47.3	54.1	54.1	69.1	78.6	80.0	82.3	84.5	86.8	89.5	89.5	90.5	90.5	92.3	92.3	92.3	92.3				
GE 300	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 200	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 100	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 50	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 40	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 30	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 20	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 10	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				
GE 0	47.3	54.1	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.4	92.3	92.3	94.1	94.1	94.1	94.1				

TOTAL NUMBER OF OBSERVATIONS: 220

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 0600-0800

CEILINGS VISIBILITY IN HUNDREDS OF METERS

IN	1	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	GE	GE	GE	U
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FEET	1	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
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NO CEIL	1	9.2	10.9	15.7	16.5	17.4	18.2	18.6	18.6	18.6	18.6	18.6	18.6	19.1	19.1	19.6	19.6	19.6	19.6
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GE 20000	1	9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3	22.3
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GE 18000	1	9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3	22.3
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GE 16000	1	9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3	22.3
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GE 14000	1	9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3	22.3
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GE 12000	1	9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3	22.3
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GE 10000	1	10.2	13.3	20.3	21.5	22.5	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.5	23.7	24.2	24.2	24.2	24.2
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GE 9000	1	10.7	15.5	23.0	24.5	25.4	26.4	26.9	26.9	26.9	26.9	26.9	26.9	27.4	27.6	28.1	28.1	28.1	28.1
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GE 8000	1	14.0	17.2	25.9	27.4	28.3	29.3	29.8	29.8	29.8	29.8	29.8	29.8	30.3	30.5	31.2	31.2	31.2	31.2
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GE 7000	1	14.0	17.2	25.9	27.4	28.3	29.3	29.8	29.8	29.8	29.8	29.8	29.8	30.3	30.5	31.2	31.2	31.2	31.2
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GE 6000	1	16.9	20.6	29.5	31.0	32.2	33.2	33.7	33.9	33.9	33.9	33.9	33.9	34.1	34.6	34.9	35.6	35.6	35.6
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GE 5000	1	19.6	24.0	32.9	34.4	35.6	36.6	37.0	37.3	37.3	37.3	37.3	37.3	37.5	38.0	38.3	39.0	39.0	39.0
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GE 4500	1	23.2	28.6	38.3	39.5	40.7	42.1	42.6	42.9	42.9	42.9	42.9	42.9	43.1	43.6	43.8	44.6	44.6	44.6
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GE 4000	1	24.2	29.5	39.2	40.9	42.4	44.3	44.8	45.0	45.0	45.0	45.0	45.0	45.3	45.8	46.0	46.7	46.7	46.7
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GE 3500	1	29.8	35.4	46.0	48.4	49.9	52.1	53.0	53.3	53.3	53.3	53.3	53.3	53.8	54.2	54.5	55.2	55.2	55.2
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GE 3000	1	31.2	39.7	51.3	53.9	55.2	57.6	58.6	58.8	59.1	59.3	59.3	59.3	59.8	60.0	60.8	60.8	60.8	60.8
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GE 2500	1	37.5	45.5	59.1	63.4	65.1	68.3	69.7	70.0	70.2	70.7	70.7	70.7	71.2	71.7	72.4	72.4	72.4	72.4
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GE 2000	1	39.7	47.7	61.7	66.3	68.0	71.2	72.6	72.9	73.1	73.6	73.6	73.6	74.1	74.6	75.3	75.3	75.3	75.3
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GE 1800	1	41.4	49.9	65.6	70.9	72.6	76.0	77.5	77.7	78.2	78.7	79.2	79.2	79.7	80.4	80.4	80.4	80.4	80.4
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GE 1500	1	41.9	51.6	67.8	73.8	75.5	79.7	81.4	82.3	83.3	83.8	84.3	84.3	84.7	85.5	85.5	85.5	85.5	85.5
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GE 1200	1	42.1	52.3	69.7	76.5	78.2	82.6	84.3	85.2	86.4	86.9	87.4	87.9	88.6	88.6	88.6	88.6	88.6	88.6
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GE 1000	1	43.1	53.3	70.7	78.3	79.7	84.0	86.2	87.2	88.4	88.9	89.3	89.8	90.6	90.6	90.6	90.6	90.6	90.6
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GE 900	1	43.6	53.8	71.4	79.2	80.9	85.2	87.4	88.4	89.6	90.1	90.8	91.3	92.0	92.0	92.0	92.0	92.0	92.0
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GE 800	1	43.6	53.8	71.7	79.7	81.4	86.0	88.4	89.3	90.6	91.0	91.8	92.3	93.0	93.0	93.0	93.0	93.0	93.0
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GE 700	1	43.6	54.0	72.2	80.6	82.3	87.2	89.8	91.0	92.5	93.0	93.7	94.2	94.9	94.9	94.9	94.9	94.9	94.9
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GE 600	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 500	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 400	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 300	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 200	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 100	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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GE 01	1	43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.4	95.4	95.4	95.4
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TOTAL NUMBER OF OBSERVATIONS: 413

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: DEC HOURS (LST): 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 CEYL	11.9	13.7	17.4	18.4	19.0	19.3	19.5	19.5	19.5	19.5	19.5	19.5	19.5	20.0	20.2	20.5
GE 20000	13.8	15.8	20.0	21.0	21.6	22.4	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.3	23.6
GE 18000	13.8	15.8	20.0	21.0	21.6	22.4	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.3	23.6
GE 16000	14.0	15.9	20.2	21.1	21.8	22.6	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.3	23.4	23.7
GE 14000	14.8	16.7	21.0	22.0	22.6	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.1	24.2	24.6
GE 12000	15.1	17.1	21.5	22.4	23.1	23.9	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.6	24.7	25.0
GE 10000	16.1	18.5	23.3	24.2	24.9	26.0	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.7	26.8	27.2
GE 9000	16.7	19.2	24.6	25.5	26.2	27.3	27.5	27.5	27.5	27.5	27.5	27.5	27.5	28.0	28.1	28.5
GE 8000	20.0	22.6	28.5	29.8	30.4	31.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.2	32.4	32.7
GE 7000	20.7	23.3	30.1	31.2	31.9	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	34.0	34.1	34.5
GE 6000	20.8	23.4	30.2	31.5	32.2	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.3	34.5	34.8
GE 5000	23.3	26.2	33.0	34.5	35.3	36.4	36.6	36.6	36.6	36.6	36.6	36.6	36.6	37.4	37.5	37.9
GE 4500	24.9	27.8	35.0	36.7	37.4	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.8	40.0	40.3
GE 4000	28.3	31.9	39.5	41.3	42.0	43.3	43.6	43.6	43.6	43.6	43.6	43.6	43.6	44.7	44.9	45.2
GE 3500	30.9	34.5	43.4	45.2	45.9	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	48.9	49.1	49.4
GE 3000	35.1	39.2	49.6	52.4	53.0	55.3	55.9	55.9	55.9	55.9	55.9	55.9	55.9	57.1	57.2	57.6
GE 2500	37.4	41.5	52.8	55.9	56.6	58.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	61.1	61.3	61.6
GE 2000	41.3	46.8	60.2	64.5	65.2	67.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	71.2	71.4	71.7
GE 1800	42.8	48.8	62.4	67.3	68.0	70.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	74.3	74.5	74.8
GE 1500	44.6	51.1	66.0	71.2	71.9	74.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	78.5	78.7	79.0
GE 1200	45.5	52.7	69.3	75.1	75.8	79.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	83.4	83.6	83.9
GE 1000	46.0	53.3	71.2	77.1	77.7	81.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	86.7	86.8	87.2
GE 900	46.0	53.7	72.5	78.4	79.0	82.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	88.3	88.5	88.8
GE 800	46.2	54.0	73.0	79.5	80.2	84.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	90.7	90.9	91.2
GE 700	46.2	54.0	73.5	80.2	81.1	86.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	92.8	93.0	93.3
GE 600	46.2	54.0	73.5	80.7	82.0	87.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1	94.6	94.8	95.1
GE 500	46.2	54.0	73.7	80.8	82.1	87.6	91.1	91.2	91.2	91.2	91.2	91.2	91.2	95.9	96.1	96.6
GE 400	46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	96.1	96.3	97.1
GE 300	46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	97.2	97.4	99.5
GE 200	46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	97.7	97.9	100.0
GE 100	46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	97.7	97.9	100.0
GE 0	46.2	54.0	73.7	80.9	82.1	87.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	97.7	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 615

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AMF GERMANY

PERIOD OF RECORD: 78-88
MONTH: DEC HOURS (LST): 1200-1400

CEILING VISIBILITY IN HUNDREDS OF METERS

	GE	90	80	60	40	32	24	20	16	12	10	8	6	4	0
IN	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	160	90	80	60	40	32	24	20	16	12	10	8	6	4	0
NO CEIL	15.4	16.3	19.2	20.0	20.2	20.2	20.4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	21.2
GE 20000	19.2	20.0	23.5	24.6	25.1	25.3	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.4
GE 18000	19.2	20.0	23.5	24.6	25.1	25.3	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.4
GE 16000	19.7	20.5	24.0	25.1	25.6	25.8	25.9	26.1	26.1	26.1	26.1	26.1	26.1	26.1	27.6
GE 14000	20.4	21.2	24.6	25.8	26.3	26.4	26.6	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.6
GE 12000	21.7	22.5	25.9	27.3	27.9	27.9	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	29.1
GE 10000	23.6	24.5	29.1	29.4	29.9	30.0	30.2	30.4	30.4	30.4	30.4	30.4	30.4	30.4	31.2
GE 9000	25.1	26.1	29.7	31.0	31.5	31.7	31.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.8
GE 8000	28.4	29.4	33.8	35.1	35.6	35.8	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.9
GE 7000	30.2	31.4	36.6	38.3	38.8	39.1	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.6
GE 6000	30.7	31.9	37.1	38.8	39.2	39.4	39.6	39.9	40.2	40.2	40.2	40.2	40.2	40.2	41.2
GE 5000	34.2	35.3	41.1	42.7	43.2	43.5	43.7	44.0	44.3	44.3	44.3	44.3	44.3	44.3	45.2
GE 4500	35.0	36.3	42.4	44.0	44.5	45.0	45.2	45.5	45.8	45.8	45.8	45.8	45.8	45.8	46.6
GE 4000	40.1	41.7	48.1	49.9	50.4	50.9	51.1	51.4	51.9	51.9	51.9	51.9	51.9	51.9	52.7
GE 3500	42.0	43.7	50.4	52.7	53.2	53.7	53.9	54.2	54.7	54.7	54.7	54.7	54.7	54.7	55.5
GE 3000	47.1	48.8	57.0	58.6	60.1	60.6	61.1	61.4	61.9	61.9	61.9	61.9	61.9	61.9	62.7
GE 2500	49.4	51.2	60.1	62.7	63.5	64.7	65.2	65.5	66.0	66.0	66.0	66.0	66.0	66.0	66.8
GE 2000	51.9	54.0	64.4	67.3	68.1	69.5	70.0	70.3	70.9	70.9	70.9	70.9	70.9	70.9	71.8
GE 1800	52.9	55.5	66.5	70.1	70.9	72.6	73.1	73.4	74.1	74.1	74.1	74.1	74.1	74.1	74.9
GE 1500	54.8	57.5	69.6	73.4	74.2	76.2	76.8	77.2	78.0	78.0	78.0	78.0	78.0	78.0	79.0
GE 1200	57.0	59.9	75.4	79.6	80.6	82.9	83.7	84.1	85.1	85.1	85.1	85.1	85.1	85.1	86.2
GE 1000	57.1	60.6	77.7	82.4	83.4	85.9	86.9	87.4	88.7	88.7	88.7	88.7	88.7	88.7	89.8
GE 900	57.5	61.1	78.5	83.3	84.2	86.7	88.0	88.5	89.8	89.8	89.8	89.8	89.8	89.8	91.0
GE 800	57.8	61.4	78.8	84.1	85.1	87.7	89.0	89.5	91.3	91.3	91.3	91.3	91.3	91.3	92.4
GE 700	57.8	61.4	79.0	84.6	85.6	88.2	90.6	91.1	93.3	93.3	93.3	93.3	93.3	93.3	94.4
GE 600	57.8	61.4	79.0	84.7	85.7	89.7	91.3	92.0	94.3	94.3	94.3	94.3	94.3	94.3	95.8
GE 500	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.3	95.2	95.2	95.2	95.2	95.2	95.2	96.9
GE 400	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.6	95.9	96.1	96.1	96.1	96.1	96.1	97.9
GE 300	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.6	95.9	96.1	96.1	96.1	96.1	96.1	97.9
GE 200	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.6	95.9	96.1	96.1	96.1	96.1	96.1	97.9
GE 100	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.6	95.9	96.1	96.1	96.1	96.1	96.1	97.9
GE 0	57.8	61.4	79.0	84.7	85.7	89.7	91.0	92.6	95.9	96.1	96.1	96.1	96.1	96.1	97.9

TOTAL NUMBER OF OBSERVATIONS: 609

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE7HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-89
MONTH: DEC

CEILING VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	40	32	24	20	16	12	10	8	6	4	0
16.1	16.8	19.3	20.5	20.5	20.5	20.8	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1
GE 20000	19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
GE 18000	19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
GE 16000	19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
GE 14000	20.1	20.8	23.5	24.7	25.0	25.5	25.7	25.7	25.7	25.8	25.8	25.8	25.8	25.8	25.8	25.8
GE 12000	20.6	21.3	24.0	25.2	25.5	26.0	26.2	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.3	26.3
GE 10000	21.5	22.5	25.3	26.5	26.8	27.5	27.7	27.7	27.7	27.9	27.9	27.9	27.9	27.9	27.9	27.9
GE 9000	23.5	24.5	27.3	28.7	29.0	29.7	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GE 8000	27.5	28.9	32.2	33.7	34.1	34.7	34.9	34.9	35.1	35.1	35.2	35.2	35.2	35.2	35.2	35.2
GE 7000	30.0	31.4	35.7	37.4	37.8	38.4	38.6	38.6	38.9	38.9	39.1	39.1	39.1	39.1	39.1	39.1
GE 6000	30.2	31.5	36.2	37.8	38.1	38.8	38.9	38.9	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.4
GE 5000	32.6	33.9	36.9	40.5	41.1	41.9	42.3	42.3	42.6	42.6	42.8	42.8	42.8	42.8	42.8	42.8
GE 4500	34.2	35.6	40.6	42.4	42.8	43.6	44.0	44.0	44.3	44.3	44.5	44.5	44.5	44.5	44.5	44.5
GE 4000	38.6	40.3	46.3	48.3	48.7	49.7	50.0	50.0	50.3	50.3	50.5	50.5	50.5	50.5	50.5	50.5
GE 3500	40.4	42.1	48.7	51.0	51.3	52.5	53.0	53.0	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5
GE 3000	46.6	48.3	56.0	58.7	59.1	60.4	60.9	60.9	61.2	61.2	61.4	61.4	61.4	61.4	61.4	61.4
GE 2500	51.7	53.5	61.7	64.9	65.3	66.8	67.3	67.3	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8
GE 2000	54.9	57.4	66.9	70.6	71.0	72.8	73.7	73.7	74.0	74.2	74.5	74.7	74.7	74.7	74.7	74.7
GE 1800	55.5	58.6	68.6	72.7	73.0	74.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 1500	57.0	60.6	72.5	77.0	77.5	80.0	80.9	80.9	80.9	81.7	81.9	82.2	82.7	83.1	83.1	83.1
GE 1200	58.1	62.4	75.8	81.2	81.7	84.6	85.4	85.4	85.4	86.7	86.9	87.2	87.8	88.1	88.1	88.1
GE 1000	58.1	62.8	76.5	82.7	83.2	86.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 900	58.6	63.6	77.3	84.1	84.7	88.6	89.8	89.8	89.8	91.6	91.9	92.3	92.8	93.1	93.1	93.1
GE 800	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	90.6	92.4	92.8	93.1	94.0	94.3	94.3	94.3
GE 700	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.6	90.6	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 600	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.6	91.3	93.8	94.1	94.5	95.8	95.8	95.8	95.8
GE 500	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 400	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 300	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 200	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 100	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8
GE 0	58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.4	91.9	92.8	93.1	93.5	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS: 596

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106423 STATION NAME: HAWAII AAF GERMANY PERIOD OF RECORD: 76-88
 MONTH: DEC HOURS(1571) 1000-2400

CEILINGS VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	4	0
FEET	160	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
NO CEIL	15.7	17.7	24.0	27.1	27.1	27.1	28.5	28.5	28.5	28.5	28.7	28.7	28.7	29.0	29.0	29.0
GE 20000	17.7	20.2	26.5	29.8	29.8	31.2	31.2	31.2	31.5	31.8	31.8	31.8	31.8	31.8	32.0	32.0
GE 18000	18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.0	32.3	32.3
GE 16000	18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.0	32.3	32.3
GE 14000	18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.0	32.3	32.3
GE 12000	18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.0	32.3	32.3
GE 10000	20.2	23.5	30.4	34.0	34.0	35.4	35.4	35.4	35.6	35.9	35.9	35.9	35.9	36.2	36.2	36.2
GE 9000	21.0	24.3	31.2	35.1	35.1	36.5	36.5	36.5	36.7	37.0	37.0	37.0	37.0	37.3	37.3	37.3
GE 8000	23.5	26.0	33.7	38.4	38.4	39.8	39.8	39.8	40.1	40.3	40.3	40.3	40.3	40.6	40.6	40.6
GE 7000	24.3	27.6	34.8	39.5	39.5	41.2	41.2	41.2	41.4	41.7	41.7	41.7	41.7	42.0	42.0	42.0
GE 6000	25.1	28.5	35.9	40.6	40.6	42.3	42.3	42.3	42.5	42.8	42.8	42.8	42.8	43.1	43.1	43.1
GE 5000	26.5	29.8	37.6	42.5	42.5	44.5	44.5	44.5	44.8	45.0	45.0	45.0	45.0	45.3	45.3	45.3
GE 4500	28.5	31.8	40.1	45.3	45.3	47.5	47.5	47.5	47.8	48.1	48.1	48.1	48.1	48.3	48.3	48.3
GE 4000	32.9	36.2	44.8	50.0	50.0	52.2	52.2	52.2	52.5	52.8	53.0	53.0	53.0	53.3	53.3	53.3
GE 3500	36.2	39.5	48.6	54.4	54.4	56.6	56.6	56.6	57.2	57.5	57.5	57.5	57.5	57.7	57.7	57.7
GE 3000	40.3	43.9	53.9	59.7	59.7	61.9	61.9	61.9	62.2	62.4	62.7	62.7	62.7	63.0	63.0	63.0
GE 2500	44.8	48.3	59.4	65.5	65.5	68.0	68.0	68.0	69.1	69.3	69.3	69.3	69.3	69.7	69.7	69.7
GE 2000	48.9	52.5	64.6	71.8	71.8	75.7	75.7	75.7	77.1	77.3	77.6	77.6	77.6	78.2	78.2	78.2
GE 1800	49.7	53.3	66.3	74.0	74.0	78.2	78.2	78.2	80.1	80.4	80.7	80.7	80.7	81.2	81.2	81.2
GE 1500	50.8	55.0	69.3	78.2	78.2	82.3	82.3	82.3	84.3	84.5	84.8	84.8	84.8	85.9	85.9	85.9
GE 1200	52.5	56.6	72.1	81.8	81.8	86.5	86.5	86.5	88.7	89.0	89.2	89.2	89.2	90.3	90.3	90.3
GE 1000	52.5	56.6	72.1	82.3	82.3	86.7	86.7	86.7	89.0	89.3	89.3	89.3	89.3	90.4	90.4	90.4
GE 900	53.3	57.5	73.5	83.7	83.7	88.7	88.7	88.7	90.9	91.4	91.4	91.4	91.4	92.5	92.5	92.5
GE 800	53.3	57.5	74.3	84.5	84.5	89.5	89.5	89.5	91.7	92.3	92.3	92.3	92.3	93.4	93.4	93.4
GE 700	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 600	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 500	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 400	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 300	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 200	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE 100	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6
GE	53.3	57.5	74.6	84.8	84.8	89.8	89.8	89.8	92.0	92.5	92.5	92.5	92.5	93.6	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS: 362

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/HAC

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-77, 80-85
MONTH: DEC HOURS (LST): 2100-2300

CEILING

VISIBILITY IN HUNDREDS OF METERS

IN	GT	GE	90	80	60	48	40	32	24	20	16	12	10	8	5	4	0
FEET	160																
NO CEIL	8.5	9.4	16.2	18.8	19.7	22.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	24.8	25.6	
GE 20000	10.3	12.0	20.5	23.9	24.8	27.4	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	29.7	30.8	30.8
GE 18000	10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 16000	10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 14000	10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 12000	10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 10000	12.8	14.5	23.9	28.2	29.1	31.6	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	34.2	35.0	35.0
GE 9000	12.8	14.5	23.9	28.2	29.1	31.6	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	34.2	35.0	35.0
GE 8000	14.5	16.2	26.5	30.8	31.6	34.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	36.8	37.6	37.6
GE 7000	14.5	16.2	26.5	30.8	31.6	34.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	36.8	37.6	37.6
GE 6000	15.4	17.1	27.4	31.6	32.5	35.0	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	37.6	38.4	38.4
GE 5000	17.9	21.4	32.5	36.8	37.6	40.2	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	42.7	43.6	43.6
GE 4000	17.9	21.4	32.5	36.8	37.6	40.2	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	42.7	43.6	43.6
GE 3500	19.7	25.6	36.8	41.0	41.9	47.0	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	50.4	51.3	51.3
GE 3000	23.9	29.9	41.0	45.3	46.2	51.3	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	54.7	55.6	55.6
GE 2500	27.4	33.3	44.4	48.7	49.6	55.6	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	59.0	60.0	60.0
GE 2000	34.2	40.2	52.1	56.4	57.3	63.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	66.7	67.6	67.6
GE 1800	38.5	44.4	58.1	62.4	64.1	70.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	73.8	74.4	74.4
GE 1600	39.3	45.3	60.7	67.5	70.1	76.1	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	79.5	81.2	81.2
GE 1500	41.0	47.0	63.2	71.8	74.4	80.3	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	83.8	85.5	85.5
GE 1200	41.9	48.7	65.8	74.4	76.9	82.9	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	86.7	88.4	88.4
GE 1000	41.9	48.7	65.8	74.4	76.9	82.9	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	86.7	88.4	88.4
GE 900	43.6	50.4	70.9	79.5	82.1	88.0	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	91.7	93.4	93.4
GE 800	43.6	50.4	70.9	79.5	82.1	88.0	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	91.7	93.4	93.4
GE 700	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 600	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 500	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 400	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 300	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 200	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE 100	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1
GE	43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	93.4	95.1	95.1

TOTAL NUMBER OF OBSERVATIONS: 117

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
 USAFETAC FROM HOURLY OBSERVATIONS
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 106420 STATION NAME: HAVAU AAF GERMANY											
PERIOD OF RECORD: 75-85											
MONTH: DEC HOURS(LST): ALL											
CEILINGS											
VISIBILITY IN HUNDREDS OF METERS											
IN	GT	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	160	90	80	60	48	40	32	24	20	16	12
NO CEIL	13.6	14.9	18.8	20.1	20.5	21.0	21.2	21.3	21.3	21.4	21.4
GE 20000	15.1	17.5	21.9	23.5	24.0	24.8	25.0	25.1	25.1	25.2	25.3
GE 18000	15.1	17.6	22.0	23.6	24.1	24.9	25.1	25.1	25.2	25.3	25.3
GE 16000	15.3	17.7	22.1	23.7	24.2	25.0	25.2	25.3	25.4	25.4	25.4
GE 14000	16.7	18.1	22.5	24.1	24.6	25.4	25.6	25.7	25.8	25.9	26.0
GE 12000	17.1	18.6	23.0	24.7	25.2	26.0	26.2	26.3	26.3	26.4	26.4
GE 10000	19.5	20.3	25.1	26.9	27.3	28.2	28.4	28.5	28.6	28.7	28.7
GE 9000	19.6	21.5	26.5	28.3	28.8	29.7	29.9	30.1	30.1	30.2	30.3
GE 8000	22.7	24.7	30.3	32.2	32.7	33.6	33.8	33.9	34.0	34.1	34.1
GE 7000	24.1	26.2	32.6	34.7	35.2	36.1	36.3	36.4	36.7	36.8	36.8
GE 6000	24.4	26.5	33.0	35.1	35.6	36.5	36.8	36.9	37.1	37.2	37.2
GE 5000	27.0	29.4	36.2	38.4	39.9	40.0	40.2	40.4	40.6	40.8	41.0
GE 4500	28.6	31.1	38.1	40.4	41.0	42.1	42.4	42.6	42.8	43.0	43.2
GE 4000	32.7	35.7	43.3	45.6	46.2	47.6	47.9	48.0	48.3	48.6	48.6
GE 3500	34.9	37.9	46.1	48.7	49.3	50.9	51.3	51.4	51.7	51.8	52.0
GE 3000	39.9	43.1	52.5	55.6	56.2	58.0	58.6	58.7	59.1	59.2	59.4
GE 2500	43.4	46.9	57.0	60.4	61.1	63.1	63.9	64.0	64.4	64.5	64.7
GE 2000	47.0	51.2	62.9	67.2	68.1	70.5	71.6	71.8	72.2	72.5	72.6
GE 1800	48.2	52.7	65.0	69.9	70.8	73.3	74.6	74.7	75.2	75.5	75.6
GE 1500	49.8	54.8	68.5	73.9	74.9	77.7	79.0	79.2	79.8	80.1	80.2
GE 1200	51.1	56.6	72.1	78.1	79.1	82.4	83.9	84.2	85.1	85.4	85.5
GE 1000	51.3	57.1	73.5	80.0	81.0	84.5	86.2	86.6	87.7	88.2	88.3
GE 900	51.8	57.8	74.7	81.4	82.4	86.2	88.1	88.5	89.6	90.1	90.3
GE 800	52.0	58.1	75.3	82.3	83.3	87.4	89.3	89.7	91.0	91.6	91.7
GE 700	52.0	58.1	75.5	82.7	83.8	88.2	90.2	90.6	92.1	92.7	92.9
GE 600	52.0	58.1	75.6	83.0	84.2	88.9	91.2	91.6	93.4	94.0	94.2
GE 500	52.0	58.1	75.6	83.1	84.3	89.1	91.5	92.1	94.1	94.9	95.1
GE 400	52.0	58.1	75.6	83.1	84.3	89.1	91.6	92.2	94.5	95.4	95.6
GE 300	52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	95.9	96.2
GE 200	52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5
GE 100	52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5
GE 0	52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5

TOTAL NUMBER OF OBSERVATIONS: 2712

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PSYCHROMETRIC SUMMARIES

PART 4

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

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

- a. Daily HIGH temperatures (for available observations)
- b. Daily LOW temperatures (for available observations)
- c. Daily mean temperatures (high + low temperatures divided by two)

2. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.

This summary has been temporarily discontinued for the LISOCs pending the advent of RUSSWO-2 in mid 1986.

3. Means and standard deviations--These tabulations are derived from available hourly observations and present the mean, standard deviation, and total number of observations for the 3-hour groups, by month and annual and again at the bottom for all hours combine. Summaries for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, AND DEWPOINT TEMPERATURE.
4. Cumulative percentage frequency of occurrence of relative humidity--This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10 percent classes, plus the mean relative humidity and total number of observations presented by month and available 3-hour groups.

DAILY TEMPERATURES

GLOBAL CLIMATOLOGY BRANCH

USAFETAC

ATP WEATHER SERVICE/MAC

1066420 HANAU AAF GERMANY

56-95

YEARS

STATION	STATION NAME
1	STATION 1
2	STATION 2
3	STATION 3
4	STATION 4
5	STATION 5
6	STATION 6
7	STATION 7
8	STATION 8
9	STATION 9
10	STATION 10
11	STATION 11
12	STATION 12
13	STATION 13
14	STATION 14
15	STATION 15
16	STATION 16
17	STATION 17
18	STATION 18
19	STATION 19
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32	STATION 32
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87	STATION 87
88	STATION 88
89	STATION 89
90	STATION 90
91	STATION 91
92	STATION 92
93	STATION 93
94	STATION 94
95	STATION 95
96	STATION 96
97	STATION 97
98	STATION 98
99	STATION 99
100	STATION 100

MAXIMUM

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)**

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
1066420 HANAU AAF GERMANY

56-86

STATION NAME

STATION

DAILY TEMPERATURES

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINTHUM

[illegible]

GLOBAL CLIMATOLOGY BRANCH

USAFETAC

136427 HANAU AAE GERMANY
AIR WEATHER SERVICE/HAC

156-86

STATION	STATION NAME
100420	100420

243

YEARS

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)**

[illegible]

GLOBAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 56-86

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
86	450	445	463	473	482	491	491						
MEAN	50.6	53.0	63.8	74.9	81.2	87.8	90.7	90.1	81.3	71.0	58.4	51.9	63.1
S.D.	4.719	5.760	6.220	4.555	4.622	4.746	4.519	4.602	3.519	6.545	4.928	4.909	2.232
TOTAL OBS	810	731	840	813	821	806	809	799	777	818	770	708	9579

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE7MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106420 STATION NAME: HANAU-RAF GERMANY PERIOD OF RECORD: 56-88

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
56	*14	*27	*26	*20	*32	*42	*50	*42	*36	*31	*27	*20	*19
57	*11	*19	*15	*23	*39	*48	*50	*49	*43	*32	*33	*19	*11
58	*16	*16	*20	*27	*37	*46	*53	*47	*38	*27	*28	*28	*16
59	*-4	*18	*29	*33	*33	*43	*47	*50	*36	*34	*30	*24	*-4
60	*10	*30	*30	*41	*39	*47	*43	*47	*44	*38	*23	*10	*-10
61	*17	*18	*17	*34	*36	*38	*48	*48	*37	*29	*28	*6	*6
62	*11	*21	*29	*30	*39	*48	*47	*44	*41	*30	*38	*12	*1
63	*9	*20	*21	*34	*40	*48	*40	*43	*38	*30	*30	*13	*9
64	*25	*19	*18	*32	*35	*45	*46	*44	*40	*29	*16	*28	*16
65	*4	*31	*27	*34	*37	*44	*45	*46	*39	*31	*24	*27	*4
66	*10	*24	*31	*29	*34	*40	*46	*46	*44	*33	*27	*9	*9
67	*-3	*14	*23	*28	*36	*44	*48	*48	*46	*32	*28	*18	*-3
68	*24	*0	*24	*28	*39	*42	*46	*44	*41	*37	*24	*10	*0
69	*10	*4	*22	*28	*32	*41	*44	*48	*37	*30	*28	*10	*4
70	*-1	*17	*12	*32	*37	*44	*44	*46	*36	*32	*21	*24	*-1
71	*12	*11	*23	*26	*39	*42	*46	*44	*38	*28	*26	*17	*11
72	*15	*24	*26	*28	*35	*42	*46	*46	*39	*30	*18	*17	*11
73	*28	*30	*30	*30	*37	*42	*44	*46	*39	*33	*26	*28	*26
74	*30	*24	*30	*30	*39	*39	*50	*61	*46	*33	*19	*21	*19
75	*3	*24	*17	*24	*35	*44	*48	*46	*41	*38	*28	*1	*1
76	*28	*26	*21	*20	*39	*49	*48	*48	*37	*38	*21	*24	*21
77	*24	*15	*26	*26	*39	*44	*48	*37	*38	*32	*21	*17	*15
78	*-5	*23	*32	*33	*33	*51	*46	*44	*36	*34	*30	*28	*-5
79	*14	*27	*30	*34	*36	*46	*48	*43	*48	*32	*27	*18	*14
80	*16	*19	*32	*30	*39	*48	*48	*43	*43	*36	*28	*18	*18
81	*0	*21	*30	*30	*37	*48	*48	*43	*43	*43	*32	*30	*0
82	*27	*16	*20	*34	*46	*48	*50	*50	*41	*30	*19	*16	*16
83	*25	*19	*27	*34	*37	*48	*50	*48	*43	*37	*30	*23	*19
84	*3	*1	*20	*32	*39	*45	*50	*45	*43	*30	*19	*18	*1

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

CONTINUED ON NEXT PAGE.....

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAZ

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 1950-80

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MONTHS
86	*18	*9	*30	*28	*43	*45	*43						
MEAN	10.4	18.3	23.8	29.4	35.9	42.4	46.3	46.3	40.3	31.8	23.8	17.9	5.4
S.D.	10.532	9.440	5.570	2.372	2.397	1.758	1.913	2.008	3.596	2.444	4.892	7.487	7.308
TOTAL OBS	810	731	840	813	821	806	809	799	777	818	770	785	9579

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

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106420 HANAU AAF GERMANY

76-86

STATION

STATION NAME

YEARS

HRS. (L.S.T.)	MEAN S.D. TOTAL OBS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08		31.9 9.504 485	30.8 9.228 435	39.5 6.643 496	42.7 6.188 625	51.7 6.583 639	57.9 6.031 652	60.0 5.662 605	58.4 5.582 696	53.1 5.778 672	46.8 7.191 478	39.2 7.427 432	38.6 8.470 412	47.2 12.116 6627
09-11		32.5 9.167 659	33.2 8.047 588	42.9 6.334 680	48.5 7.468 650	57.9 7.624 656	64.0 7.454 652	66.8 7.682 636	66.2 6.096 704	59.6 5.886 686	51.2 7.284 660	41.3 7.737 592	36.4 8.140 615	50.4 14.278 7878
12-14		35.5 8.054 654	37.6 7.259 583	47.6 6.900 681	53.6 8.937 641	62.4 9.271 662	68.3 9.003 654	71.6 8.997 636	71.9 7.097 707	65.5 6.735 664	56.8 7.966 636	44.7 7.805 589	39.1 7.698 608	58.0 13.181 7715
15-17		36.2 7.984 638	39.2 7.230 586	49.4 7.169 681	54.7 9.535 621	64.0 9.971 645	69.7 9.635 638	73.2 9.348 636	73.5 7.725 696	66.9 7.301 627	57.9 8.199 614	44.9 7.857 586	39.1 7.473 596	56.1 15.650 7584
18-20		34.2 9.131 535	36.1 7.055 535	46.3 6.696 592	51.8 8.341 554	61.6 9.526 539	67.4 8.857 559	70.8 8.942 598	69.9 7.366 652	62.3 6.509 607	53.1 7.060 560	42.5 7.533 526	37.0 7.441 362	53.7 15.130 6619
21-23		33.6 10.232 174	31.2 7.346 177	43.6 7.249 225	47.8 6.963 300	56.5 7.486 284	62.6 7.354 335	65.3 6.935 371	63.9 5.576 379	57.9 5.289 366	50.3 6.992 228	40.1 7.455 220	34.0 7.271 117	52.4 13.260 3176
	MEAN S.D. TOTAL OBS													
	MEAN S.D. TOTAL OBS													
	MEAN S.D. TOTAL OBS													
ALL HOURS	MEAN S.D. TOTAL OBS	34.1 8.972 3145	35.4 8.282 2904	45.3 7.557 3355	50.0 9.098 3391	59.2 9.596 3425	65.1 9.173 3490	68.2 9.306 3482	67.6 8.513 3834	61.0 7.951 3622	53.2 8.437 3176	42.5 7.952 2945	37.5 7.983 2710	52.6 14.793 39479

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106420 HANAU AAF GERMANY 76-86

STATION	STATION NAME												YEARS	
	HRS. (L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08	MEAN	28.4	26.3	35.1	37.3	46.2	52.1	54.6	53.9	50.0	44.3	36.4	32.9	42.9
	S. D.	9.438	1.210	6.961	6.224	6.141	5.605	4.611	5.084	5.553	6.921	7.644	8.496	11.741
	TOTAL OBS	482	435	495	625	639	651	604	696	672	477	431	412	6619
09-11	MEAN	28.3	27.6	36.4	38.6	47.4	53.2	55.7	55.6	51.7	45.8	37.4	32.8	42.8
	S. D.	9.315	9.957	6.695	6.447	6.170	5.782	4.833	5.011	5.651	6.535	7.551	8.071	12.078
	TOTAL OBS	658	588	680	650	656	652	636	704	686	660	592	615	7777
12-14	MEAN	30.1	29.4	37.4	39.3	47.8	53.1	55.5	55.7	52.5	47.4	38.5	34.2	43.7
	S. D.	8.289	9.167	6.858	7.037	6.848	5.937	5.212	5.461	6.123	6.540	7.105	7.430	11.591
	TOTAL OBS	654	583	681	641	662	654	636	707	664	636	589	608	7719
15-17	MEAN	30.6	29.7	37.4	38.9	47.6	53.1	55.7	55.2	53.0	47.7	38.6	34.1	43.7
	S. D.	8.578	8.914	6.985	6.650	6.863	5.964	5.448	5.705	6.140	6.528	6.882	7.221	11.544
	TOTAL OBS	636	586	681	621	645	638	636	696	627	614	586	596	7562
18-20	MEAN	29.8	28.9	36.8	38.4	47.6	53.3	56.1	55.3	53.1	47.0	37.9	33.1	43.8
	S. D.	9.734	8.829	6.953	5.986	6.775	5.912	5.210	5.597	5.881	6.410	7.115	7.304	11.873
	TOTAL OBS	535	535	592	554	539	559	598	652	607	560	526	362	6619
21-23	MEAN	29.1	23.9	36.0	38.2	47.3	53.1	56.2	54.9	52.0	45.9	36.2	30.7	45.0
	S. D.	10.748	9.436	7.913	5.865	6.803	5.850	4.970	5.521	5.485	6.637	7.549	7.090	12.102
	TOTAL OBS	174	177	225	300	284	335	371	378	366	228	220	117	3175
	MEAN													
	S. D.													
	TOTAL OBS													
ALL HOURS	MEAN	29.4	28.2	36.7	38.5	47.3	53.0	55.6	55.1	52.0	46.5	37.7	33.4	43.5
	S. D.	9.184	9.694	6.997	6.466	6.601	5.851	5.085	5.425	5.929	6.675	7.316	7.712	11.808
	TOTAL OBS	3139	2904	3354	3391	3425	3489	3481	3833	3622	3175	2944	2710	39467

RELATIVE HUMIDITY

三

PERIOD

WILLOW

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.0	92.9	75.5	42.1	87.1	402
	09-11	100.0	100.0	100.0	100.0	99.8	98.9	91.2	68.8	33.6	85.0	450
	12-14	100.0	100.0	100.0	100.0	99.7	96.6	82.1	54.7	18.2	80.9	654
	15-17	100.0	100.0	100.0	100.0	99.5	95.6	79.9	50.2	17.9	80.1	636
	18-20	100.0	100.0	100.0	100.0	99.1	96.3	88.4	67.1	32.3	84.2	535
	21-23	100.0	100.0	100.0	100.0	100.0	94.3	85.6	69.5	32.8	83.9	174
TOTALS		100.0	100.0	100.0	100.0	99.7	96.9	86.7	64.3	29.5	83.5	3139

RELATIVE HUMIDITY

833

USAFETAC
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RELATIVE HUMIDITY

77-86

MR

STATION NAME

PEARIOD

MINOR

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%	90%			
MAR	00-02												
	03-05												
	06-08	100.0	100.0	100.0	100.0	99.8	98.8	89.9	67.1	34.1	84.7	495	
	09-11	100.0	100.0	99.9	99.1	97.9	93.8	75.6	43.5	16.3	78.4	680	
	12-14	100.0	99.9	99.4	97.5	90.3	73.6	47.7	19.2	4.8	69.0	681	
	15-17	100.0	100.0	99.1	95.3	82.2	63.4	35.4	15.0	2.8	64.8	681	
	18-20	100.0	100.0	99.2	97.8	92.2	77.7	52.0	26.5	5.4	70.7	592	
	21-23	100.0	100.0	98.2	98.2	96.9	89.8	68.4	40.9	11.1	75.8	225	
TOTALS		100.0	100.0	99.3	98.0	93.2	82.9	61.5	35.4	12.4	73.9	3354	

RELATIVE HUMIDITY

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MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
APR	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.4	96.8	85.3	55.4	21.1	81.6	625
	09-11	100.0	100.0	100.0	97.7	88.5	74.9	49.1	25.1	8.2	70.0	650
	12-14	100.0	100.0	99.1	88.5	69.9	48.5	28.5	11.7	2.8	60.4	641
	15-17	100.0	100.0	97.6	82.4	59.6	44.0	26.2	9.3	2.6	57.7	621
	18-20	100.0	100.0	99.6	90.8	72.6	52.0	35.9	13.5	3.6	62.5	554
	21-23	100.0	100.0	100.0	99.0	90.3	74.0	53.3	28.3	8.0	70.8	300
TOTALS		100.0	100.0	99.4	93.1	80.1	65.0	46.4	23.9	7.7	67.2	3391

RELATIVE HUMIDITY

MAY

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%		
MAY	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	99.8	97.0	83.9	56.2	26.3	639
	09-11	100.0	100.0	100.0	98.5	91.3	69.7	46.5	22.7	9.9	656
	12-14	100.0	100.0	98.8	89.7	69.3	48.0	29.0	14.7	6.2	662
	15-17	100.0	100.0	95.7	79.8	60.5	41.1	27.8	14.1	4.8	645
	18-20	100.0	100.0	98.1	87.8	68.8	49.5	36.4	21.0	10.4	539
	21-23	100.0	100.0	100.0	99.3	94.0	75.4	53.9	31.3	17.3	584
TOTALS		100.0	100.0	98.8	92.5	80.6	63.5	46.3	26.7	12.5	3425

RELATIVE HUMIDITY

MONTH:

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE,
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.7	96.6	86.9	51.3	20.3	81.4	651
	09-11	100.0	100.0	100.0	98.3	90.6	74.5	49.4	19.6	5.5	69.3	652
	12-14	100.0	100.0	99.7	89.3	69.7	46.2	26.5	12.4	3.4	60.4	654
	15-17	100.0	100.0	96.9	85.3	61.0	40.8	25.4	11.9	4.1	58.2	638
	18-20	100.0	100.0	99.1	90.2	76.2	54.6	34.2	14.5	4.1	62.9	559
	21-23	100.0	100.0	100.0	97.6	91.3	80.3	62.4	31.3	8.4	72.7	335
TOTALS		100.0	100.0	99.3	93.5	81.4	65.5	47.5	23.5	7.6	67.5	3489

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 HANAU AAF GERMANY

77-86

JUL

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
JUL	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	100.0	97.4	90.9	57.1	21.4	604
	09-11	100.0	100.0	100.0	99.2	90.4	71.1	47.3	19.5	5.8	636
	12-14	100.0	100.0	99.4	89.9	66.7	40.7	23.1	9.1	1.3	636
	15-17	100.0	100.0	98.3	83.2	60.1	35.7	19.7	7.4	1.1	636
	18-20	100.0	100.0	99.3	91.3	73.7	49.2	31.9	11.9	4.0	598
	21-23	100.0	100.0	100.0	100.0	96.5	82.5	60.4	26.7	9.4	371
TOTALS		100.0	100.0	99.5	93.9	81.2	62.8	45.6	22.0	7.2	3481

RELATIVE HUMIDITY

MON
AUG

STATION NAME

PERIOD

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
AUG	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.6	97.7	92.2	67.8	34.2	85.1	696
	09-11	100.0	100.0	100.0	98.6	91.6	75.3	52.4	19.7	5.4	70.0	704
	12-14	100.0	100.0	98.3	90.1	67.6	39.0	21.6	7.4	2.1	58.4	707
	15-17	100.0	99.6	96.4	83.5	53.4	31.2	16.2	7.6	2.7	54.8	696
	18-20	100.0	100.0	98.5	92.6	74.5	49.8	30.4	12.6	5.5	62.0	652
	21-23	100.0	100.0	99.7	98.4	95.0	81.7	63.8	31.2	9.8	73.6	378
TOTALS		100.0	99.9	98.8	93.9	80.3	62.5	46.1	24.4	10.0	67.3	3833

RELATIVE HUMIDITY

DES

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
SEP	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.3	97.9	84.2	52.2	89.4	672
	09-11	100.0	100.0	100.0	99.9	98.4	88.8	71.6	32.7	11.2	76.0	686
	12-14	100.0	100.0	100.0	99.1	87.8	59.2	30.1	9.8	3.5	64.1	664
	15-17	100.0	100.0	100.0	96.5	78.9	51.4	28.9	10.5	3.3	62.5	627
	18-20	100.0	100.0	100.0	99.3	95.4	80.4	60.6	28.3	10.4	73.0	607
	21-23	100.0	100.0	100.0	100.0	99.5	95.1	86.3	52.7	21.9	81.4	366
TOTALS		100.0	100.0	100.0	99.1	93.3	79.0	62.6	36.4	17.1	74.4	3622

RELATIVE HUMIDITY

OCT

PERIOD

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%		
OCT	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	99.8	99.8	98.3	88.7	60.8	477
	09-11	100.0	100.0	100.0	100.0	99.4	96.8	87.9	59.2	27.4	660
	12-14	100.0	100.0	100.0	98.9	94.0	79.4	59.4	29.7	7.1	636
	15-17	100.0	100.0	100.0	99.3	92.7	74.6	52.6	22.5	6.4	614
	18-20	100.0	100.0	100.0	100.0	99.5	95.7	83.6	51.4	17.1	560
	21-23	100.0	100.0	100.0	100.0	100.0	99.6	92.5	69.7	28.9	220
TOTALS		100.0	100.0	100.0	99.7	97.6	91.0	79.1	53.5	24.6	3175

USAFETAC
FORM
JUL 64
0-87.5 (OL A)

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

NOV

WINTER

USAFETAC FORM JUL 64 0-87.5 (OL A)

FORM 100-1

0-87.5 (OL A)

RELATIVE HUMIDITY

DEC

PERIOD

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN							MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%			80%
DEC	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	97.1	87.9	53.9	412
	09-11	100.0	100.0	100.0	100.0	100.0	99.3	94.3	76.7	42.3	615
	12-14	100.0	100.0	100.0	100.0	99.8	97.7	87.3	59.5	27.3	608
	15-17	100.0	100.0	100.0	100.0	100.0	97.7	87.2	59.1	26.0	596
	18-20	100.0	100.0	100.0	100.0	100.0	100.0	93.9	74.9	36.2	362
	21-23	100.0	100.0	100.0	100.0	100.0	100.0	94.9	83.8	38.5	117
TOTALS		100.0	100.0	100.0	100.0	100.0	99.1	92.5	73.7	37.4	2710

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420

HANAU AAF GERMANY

76-86

ALL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.7	96.9	86.7	64.3	29.5	83.5	3139
FEB		100.0	100.0	99.4	98.4	94.8	86.0	67.4	44.1	18.5	76.5	2904
MAR		100.0	100.0	99.3	98.0	93.2	82.9	61.5	35.4	12.4	73.9	3354
APR		100.0	100.0	99.4	93.1	80.1	65.0	46.4	23.9	7.7	67.2	3391
MAY		100.0	100.0	98.8	92.5	80.6	63.5	46.3	26.7	12.5	67.7	3425
JUN		100.0	100.0	99.3	93.5	81.4	65.5	47.5	23.5	7.6	67.5	3489
JUL		100.0	100.0	99.5	93.9	81.2	62.8	45.6	22.0	7.2	67.0	3401
AUG		100.0	99.9	98.8	93.9	80.3	62.5	46.1	24.4	10.0	67.3	3833
SEP		100.0	100.0	100.0	99.1	93.3	79.0	62.6	36.4	17.1	74.4	3622
OCT		100.0	100.0	100.0	99.7	97.6	91.0	79.1	53.5	24.6	80.1	3175
NOV		100.0	100.0	100.0	100.0	99.8	98.3	89.8	64.2	31.5	84.2	2944
DEC		100.0	100.0	100.0	100.0	100.0	99.1	92.5	73.7	37.4	86.2	2710
TOTALS		100.0	100.0	99.5	96.8	90.2	79.4	64.3	41.0	18.0	74.6	39467

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PART 5

PRESSURE SUMMARY

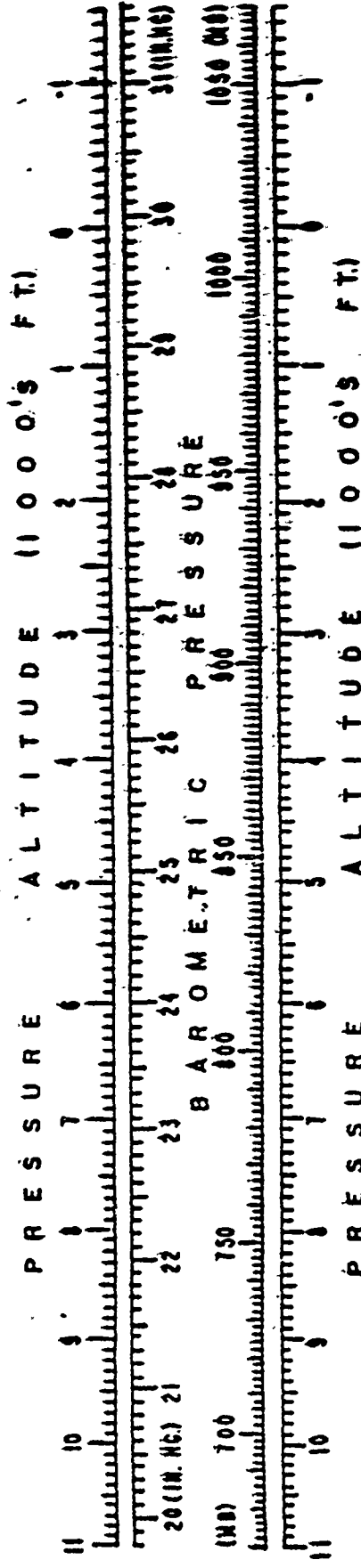
Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

106420

HANAU AAF GERMANY

76-86

STATION

STATION NAME

YEARS

HRS. (L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS												
04	MEAN S. D. TOTAL OBS												
07	MEAN S. D. TOTAL OBS	29.57829 .359 210	62829 .346 196	54329 .301 212	56029 .229 212	53229 .226 211	61029 .163 219	63029 .153 201	64329 .149 233	62729 .286 221	64129 .303 199	29.586 .416 175	29.606 .272 2521
10	MEAN S. D. TOTAL OBS	29.60129 .356 219	64729 .349 198	55029 .293 229	58129 .225 222	54329 .225 220	61729 .162 215	63629 .151 212	65429 .153 235	69229 .199 230	64829 .293 220	29.618 .418 204	29.618 .275 2601
13	MEAN S. D. TOTAL OBS	29.58229 .358 217	63729 .344 195	53929 .293 227	55629 .224 214	53129 .218 220	60429 .160 217	62429 .148 213	63629 .145 238	67429 .199 226	64429 .289 206	29.604 .419 201	29.604 .273 2573
16	MEAN S. D. TOTAL OBS	29.57929 .358 215	62429 .332 196	52029 .290 228	52829 .217 208	51429 .208 220	58729 .160 217	60629 .146 213	61429 .144 233	65829 .196 207	62329 .281 205	29.587 .410 201	29.587 .268 2541
19	MEAN S. D. TOTAL OBS	29.56729 .356 179	64729 .318 183	54229 .297 196	53529 .212 181	51629 .208 177	58029 .156 183	59629 .143 196	61429 .141 216	66129 .196 201	62929 .282 190	29.595 .415 116	29.595 .262 2199
22	MEAN S. D. TOTAL OBS	29.59629 .359 83	75929 .293 87	60629 .278 95	53429 .232 138	52129 .203 130	59329 .159 161	62029 .143 181	63629 .139 175	67829 .197 176	63429 .274 104	29.623 .412 52	29.623 .237 1482
ALL HOURS	MEAN S. D. TOTAL OBS	29.58329 .357 1123	64629 .336 1055	54429 .293 1187	55229 .223 1175	52729 .216 1178	59929 .160 1212	61929 .148 1216	63329 .146 1330	67329 .197 1272	63429 .285 1146	29.604 .413 949	29.604 .267 13917

CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

76-86

HANAU AAF GERMANY

106420

STATION

STATION NAME

YEARS

HRS. (L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08	30.7 9.061 482	29.5 9.106 435	37.7 6.301 495	40.4 5.675 625	48.9 5.809 639	54.7 5.282 651	56.9 4.656 604	55.8 4.901 696	51.4 5.401 672	45.6 6.803 477	38.0 7.112 431	34.6 8.106 412	45.1 11.321 6619
09-11	31.1 8.720 658	31.4 7.930 588	40.1 5.833 680	43.9 5.920 650	52.3 5.694 656	57.8 5.446 652	60.2 5.096 636	60.0 4.407 704	55.2 5.049 686	48.4 6.361 660	39.6 7.202 592	35.0 7.673 615	48.6 12.187 7777
12-14	33.5 7.566 554	34.6 6.931 583	43.0 5.801 681	46.7 6.480 641	54.5 6.310 662	59.5 5.682 654	61.9 5.400 636	62.3 4.516 707	58.1 5.282 664	51.8 6.225 636	41.9 6.941 589	37.1 7.029 608	49.1 11.960 7715
15-17	34.2 7.582 636	35.6 6.697 586	43.9 5.783 681	47.1 6.460 621	55.1 6.305 645	60.1 5.754 638	62.7 5.440 636	62.6 4.564 696	59.0 5.357 627	52.4 6.304 614	42.0 6.867 586	37.0 6.803 596	49.6 11.981 7562
18-20	32.7 8.719 535	33.5 6.761 535	42.1 5.801 592	45.5 5.813 554	54.1 6.234 539	59.3 5.614 559	62.0 5.399 598	61.3 4.641 652	57.1 5.175 607	49.9 6.149 560	40.5 6.875 526	35.5 6.949 362	48.6 12.135 6619
21-23	32.0 9.803 174	29.0 7.046 177	40.4 6.671 225	43.4 5.427 300	51.7 6.018 284	57.2 5.428 335	59.9 5.012 371	58.7 4.481 378	54.6 4.871 366	48.0 6.498 228	38.5 7.053 220	32.8 6.836 117	48.6 11.690 3175
ALL HOURS	32.5 8.484 3139	32.9 7.779 2904	41.5 6.292 3354	44.6 6.480 3391	52.8 6.450 3425	58.1 5.853 3489	60.7 5.553 3481	60.2 5.184 3833	55.9 5.831 3622	49.7 6.775 3175	40.4 7.150 2944	35.8 7.378 2710	47.9 12.021 39467
	MEAN S.D. TOTAL OBS												
	MEAN S.D. TOTAL OBS												
	MEAN S.D. TOTAL OBS												